

transportation TRACKS

Technology Transfer Newsletter

Published by the Local Technical Assistance Program (LTAP)
At the Institute for Transportation Research and Education, North Carolina State University

JANUARY 2015

Inside this issue:

Advanced Roads Scholars Reviews	2
2014 Roads Scholars	5
When the Clock Changes	8
LTAP Training	11
LTAP Officers	12



Congratulations 2014 Advanced Roads Scholars!

Advanced Roads Scholars must already be an NC Roads Scholar and complete eight of the fourteen Advanced Roads Scholar Training sessions. In addition, each Advanced Roads Scholar must submit a one page paper called the Advanced Roads Scholar Review. This paper reflects their experiences in the program and contains references to at least three of the specific courses in which they participated. The 2013 Advanced Roads Scholars are listed below.

Robert West
City of Asheville

Anthony Bartlett Jr.
City of Charlotte

Lee Morrison
City of Asheville

John Matlock
City of Greensboro

Christopher Bolin
City of Charlotte

Tommy Andrews
City of Greensboro

Tim Kota
City of Greensboro

transportation TRACKS
North Carolina Technology
Transfer Center

Institute for Transportation
Research and Education

NC State University's
Centennial Campus
Box 8601,
Raleigh, NC 27695-8601



Advanced Roads Scholar Reviews . . .

Each Advanced Roads Scholar candidate must write a summary of their experiences in the program-what they liked, what did not work for them in the program! We also ask that they tell us what impact the program had on their career, family and community! We hope you enjoy reading the summaries from the 2014 graduates. Congratulations to all new Advanced Roads Scholars!!

Tommy Andrews, City of Geensboro

The road to my Advanced Road Scholar was paved perfectly smooth and evenly. I learned a lot of valuable information that I was not really aware of before taking these courses. The first example of these great learning experiences is Trenching "Competent Person", a course that touches home in my line of work. Confined Space Lockout/Tag out reached another place that calls home as well. Tort Liability was a great experience as well that shined light onto many aspects that will help me with knowing responsibility going forward.

Trenching "Competent Person" touched home for me in my line of work due to the fact that we work in open excavations. The course taught us many different guidelines and check list to use while working in and around excavations. We also learned many of the safety techniques required by OSHA to stay in compliance with their standards. This course work will help to keep myself as well as fellow employees and the general public safe while working or moving around an excavation.

Confined Space Lockout/Tag out hit home as well as we work inside confined spaces almost weekly if not daily. The course taught us many safety guidelines to follow to stay safe as well as staying in compliance with OSHA. The course may one day save my life or the life of a fellow employee by knowing the proper way to test, enter and work inside of a confined space.

Tort Liability was an interesting course that shined light on the responsibility of every party involved when something goes wrong. This course should that it's not always the most obvious persons or party's liability when something goes wrong. It showed us the roles that every party plays in a legal or civil case. With my better understanding of Tort Liability I can hopefully keep myself and anyone connected with my work from any liability due to negligence.

In closing my experience with the Road Scholar and Advanced Road Scholar Program has helped grow my job knowledge by giving me a better understanding of the OSHA standards. I also learned a lot of guidelines to follow so that I can go home every day the same way I came to work, Alive and kicking. Hopefully with my better understanding of all the facts and knowledge I received in this program I can teach others safer and better ways to complete the work we do. Also with this knowledge I can keep the public as well as other employees safe.

Anthony Bartlett, Jr., City of Charlotte

I have been a NC Roads Scholar for over ten years and recently became an Advanced Road Scholar. The training opportunities provided by NC LTAP have proven most beneficial and relevant throughout my career in public works.

I began serving the City of Charlotte in 1999 estimating projects, implementing managed competition, coordinating resurfacing contracts and pavement condition surveys, developing utility cut fees, and maintaining an annual snow program. I relied heavily on all that I learned through ITRE as each of these tasks required a detailed knowledge of Soils Fundamentals, Asphalt Pavement Maintenance, Concrete Construction, Maintenance and Repair of Utility Cuts, and Snow and Ice Control.

I moved into an administrative role in 2006 as the Street Maintenance Business Manager. This position required a different set of skills and LTAP was there to help. The classes on Writing Skills and Tort Liability provided insight that was useful on a daily basis.

I have been a District Superintendent for five years now and my training has come full circle. Safety is my top priority as a manager of over 65 staff working in the street daily. Many times I have found myself referring back to details in the Trenching Competent Person, OSHA 10-Hour Safety, and Confined Space manuals.

I would like to thank all the instructors and staff supporting this great program. I will continue to utilize this resource and recommend it to my colleagues.

Chris Bolin, City of Charlotte

The Road Scholar and Advance Road Scholar Programs provide valuable education and training for people in all areas of roadway construction. As a construction inspector, I found that every course contained training relevant to my work. I found that the instructors of the courses were very knowledgeable and the classes provided plenty of time for questions and discussion. The classroom discussions among the participants and the instructor were very interesting and informative. I had the chance to tell others my experiences and learn from the experience of others. The course handouts and reference materials were very organized and contain a wealth of information. I often still reference the manuals in the

course of performing my job. Overall, I feel that the program provides very valuable training to all involved in the construction and maintenance of the roadway system in North Carolina. I would definitely recommend the program to those interested in gaining knowledge to advance in their career.

I feel some of the most important courses in the program are the safety courses. I think safety in our work needs to be the number one priority on an everyday basis. The Excavation Safety and the Trenching courses were good refresher classes on the dangers and precautions that should be taken when working around an excavation. The courses were particularly relevant to me because this is one area where I see have seen many unsafe situations on projects that I have been on. The walls of trenches collapsing have hurt and killed many workers in the state. Often times new workers on construction projects are not properly trained of the dangers of working around or inside of a trench. Other times workers may have been trained, but are just in too much of a hurry to work safely. As an inspector, part of my job is to identify the unsafe situations and have them corrected.

The Traffic Calming course was another course in particular that I find very relevant to my work lately at the City of Charlotte. Charlotte has many projects in design and under construction for the purposes of traffic calming. As the city grows the residents seem to have more concerns and complaints about traffic traveling through neighborhood areas at a high rate of speed. The city wants to maintain pedestrian friendly neighborhoods, so these traffic calming projects are in high demand. With the knowledge I have gained in the Traffic Calming course, I can help to contribute to the success of these projects.

Two other classes that I thought were great training for me as an inspector were the Risk Management and Tort Liability course and the Writing Skills for Transportation Professionals course. A very important part of my job is to carefully document all relevant activities and conversations on a project. Often times, my documentations are reviewed by my supervisors when there is a question of pay to contractors and time given to a contractor for a project. My reports are also very important in deciding if work will be accepted or rejected. For a construction inspector, the documentation can be the key in the success of a project.

Timothy A. Kota, City of Greensboro

In my ten years I've been with the City of Greensboro, I've had the privilege of being a part of several different classes provided by LTAP and my employer. Acknowledging the teachers first and foremost for taking the time and sharing their knowledge of the fields I'll be discussing. Reason being is because,

without them, there would be a false sense of direction in the line of work that I help provide with the City of Greensboro. The three classes I enjoyed the most were Confined Space, Storm Water Hydrology, and Work Zone Traffic Control Supervisor.

Confined Space entry is a very important part of my job in what I do, day in and day out, simply because I work in the Stormwater Division of FOO (Field Operations Department). So now that I know what kind of gases and contaminants that can appear and cause bodily harm in these types of structures, are crucial to staying safe and protecting the lives of others.

Work Zone Traffic Control Supervisor is also an intricate part of what I do every day. Setting up the work zone in the correct and best way I know how, can play a major role in guiding the flow of traffic safely around the location of work. Therefore keeping motorist, co-workers, and myself all in one piece and, so that everyone goes home safely at the end of the day.

Last, but not least, Storm Water Hydrology makes up the third component of classes that I felt were most important to me. Having the basic understanding of how water affects what we do as far as a department in a whole, helps me to protect the environment from erosion and sediment pollution. This also ensures that the value of life, in and around what we do in Storm Water is correct to the best of our abilities. So once again, THANK YOU to all in the LTAP program. I have learned so much over the years in my Road, as well as my Advanced Road Scholar classes that I can take with me where ever my endeavors lead me.

John Matlock, City of Greensboro

For me the Roads Scholar Program has been a fabulous learning experience affording me the opportunity for self improvement. From the first course of the Roads Scholar course through the completion of the Advanced Roads Scholar series I have gained a wealth of knowledge. With the lessons learned I can work safer and more productively. With every class there was an opportunity to network with representatives of other agencies both local and statewide. Every session was a chance to exchange ideas and techniques with colleagues.

My road to knowledge began with 3 classes in 2011. Basic Drainage, Basic Work Zone Safety, followed by Intermediate Work Zone Traffic Control. Being fairly new to the City of Greensboro Storm Water division I immediately put my new found knowledge resource to work to my advantage. My department deals with water runoff and drainage on a daily basis. With every task we create a work zone. If on a City Street or busy thorough fair we must deal with safe traffic control measures. These 3 classes have been invaluable.

The OSHA 10-Hour class was one of my favorite sessions. The instructor provided useful information in an understandable format. It points out the need to stay on top of changing regulations and the education to do what is needed to provide a safe working environment. Safety is a large aspect to me in all phases of life, both at work and outside of activities. The ability to provide a safe atmosphere and the knowledge to avoid costly fines is paramount. As a crew lead for Storm Water I am responsible for the safe and timely completion for the assigned tasks. The lessons learned there will go a long way in providing a means to those goals.

The Trenching Competent Person course has been invaluable, both to my crew and to me. The knowledge I have brought back gives me the confidence to maintain the safest working environment possible. The ability determine when to lay a ditch back or when to use a trench box for safety can go a long way in eliminating production cost.

As a first responder myself I must say the Confined Space Entry class is one of the best I have attended. The instructor was very knowledgeable of the topic and presented it in a professional manner.

I would like to take this opportunity to thank the North Carolina State University for developing the LTAP /Roads Scholar program, the City of Greensboro for allowing me to attend the classes. This is such a useful tool I hope everyone gets the chance to expand their knowledge.

Lee Morrison, City of Asheville

In 2007, I started the journey towards completing the Advanced Roads Scholar Program. Today is May 22, 2014 I have taken the last class to acquire the Advanced Certification. In reflecting on the courses that I have taken through the years makes me realize the importance of topics and subject matter.

From the time I started with the City of Asheville, I can see direct correlation from the LTAP education and the success I have had in my career. I have advanced from a laborer to a Motor Equipment Operator II to a Supervisor and finally, A Construction Inspector. I have learned information in these courses that I have taken back to the city and implemented in different situations.

The individual subjects that have had the most impact on me has been "Advanced Computers: Practical Applications of Spreadsheets, Reports and Presentations". In this course they worked around each person's skill level. "Management and Supervisor Skills for Experienced Supervisors" taught the skills that was most effective for an experienced supervisor. Also "Risk Management and Tort Liability" -this subject I had never been introduced to before this course. Learning this information has molded me into an effective and skilled employee.

I have a special respect for the continuing support and the NCLTAP program. It is important for the city and other counties to actively pursue advancing the skill set of the employees to better served the community and the state alike.

Robert West, City of Asheville

In serving as both the Labor Crew Coordinator and Labor Crew Supervisor II in the Street Department, the Management and Supervisory Skills for Experienced Supervisors, the Writing Skills for Transportation Professionals and the Advanced Work Zone Safety Programs have significantly helped me in expanding my knowledge and sharpening my skills to better perform my day to day obligations.

Understanding what needs to be accomplished and then being able to articulate both verbal and written with clarity and precision has decreased my time answering letters and emails and therefore has increased time available for resolving other matters.

Utilizing the management and supervisory portion of the program has helped me to be constructive, direct, and precise and therefore ensuring that conversations with personnel are clear, as well as brief. Minimizing misunderstandings saves time and money and keeps stress to a minimum.

Keeping up with new and advanced procedures and techniques for keeping our personnel safe is a high priority for the city. Trained employees keep our jobs on schedule by ensuring their personal safety as well as helping to ensure the public's safety. Laying out clear, understandable and easy to follow traffic control plans for safe work zones is an ongoing struggle with the public.

A few good points of the program were the informative, direct, and easy to follow agendas. The instructors were well qualified and the materials we received highlighted the main points proficiently. One negative point was the time it took to make the trip to and from, therefore limiting the number of people that could attend.

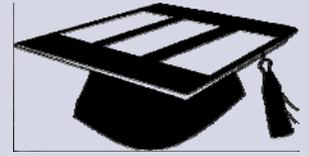
Overall, I was very pleased with the information and insight I acquired from this program. Dealing with the managing and supervision of such a menagerie of backgrounds, sexes, and age groups requires good solid policies and I welcome and encourage any and all assistance. Excellent management of time has proven to be a main asset in accomplishing my objectives. These programs have been good resources and I would highly recommend them.



AND THE WINNER IS . . .

Shannon Turner, Street Maintenance Supervisor, City of High Point, who correctly identified the picture of a soils testing box from the Soil Fundamentals Class held on October 22.

CONGRATS Shannon . . .



2014 Roads Scholar Graduates

North Carolina Local Technical Assistance Program
Institute for Transportation Research and Education
at North Carolina State University

The following individuals have completed at least 7 of the 13 training sessions offered by the NC LTAP Roads Scholar Program. Congratulations to all!

City of Charlotte
Michael Dunn

City of Concord
Terry Radford
Joshua Legg
Joe D. Rinehardt

City of Durham
Adrian Atkinson
Brian Ross
Edward Jackson
Wade Tong

City of Gastonia
Dennis Seagraves

City of Greensboro
Larry Cheek
Marik Hennis
Tony Newkirk
Wayne Sutton
Carl Stukes
John Matlock
Ricky York
Keith Thackerson
Charles Willis
Paul Multer
Tim Kota

City of Hickory
Brian Tart
David Sloope
Richard McCoy
McKinley Sherill Jr.

City of High Point
Shane Wilson
Scott Gray
David Lackey
Stan Dunlap

Town of Huntersville
Johnny Smith
Lonnie Whitley

City of Jacksonville
Roland Oliver
Keith Bass
Benjamin Gibbons
Tim Rivers
Tory Miller

City of Kannapolis
Daniel Jones
Kevin Ritchie
Jerome Blakeney
Joshua Whitley
Ed Franklin

City of Monroe
Mike Semones

City of Reidsville
Melvin Cayton

City of Rocky Mount
Brian Wilson

City of Winston-Salem
Tim Cook

Town of Garner
Leonardo Cuello

Town of Kernersville
Michael Allocco
Mark Brown

Town of Matthews
Danny McMillan
Randy Hunt
Frank LoPresti
Steve Townsend

Town of Mooresville
Daniel Snipes

Town of Wake Forest
Lance Pontrelli
Louis Isabella, Jr.

Kids invited to share "Be Ready. Be Buckled." safety message

Posted by, Todd Solomon

Sometimes, wisdom comes from unexpected corners. That's why the Federal Motor Carrier Safety Administration and the Commercial Motor Vehicle Safety Belt partnership invite kids every year to create safety posters for the "Be ready. Be buckled." art contest. And this year's contest has begun!



The contest educates kids about highway safety *and* asks them to urge their parents and neighbors to buckle up for every trip, especially if they are commercial drivers. It's open from now through February 28, 2015, to students in kindergarten through sixth grade with relatives or sponsors in the commercial truck and bus industries. You can see the entry form for complete rules.

We know that seat belts save lives. But according to data from the National Highway Traffic Safety Administration, in 2012, nearly 700 occupants of large trucks were killed in crashes. Further analysis by the FMCSA reveals that approximately 40 percent of those drivers were not wearing safety belts.

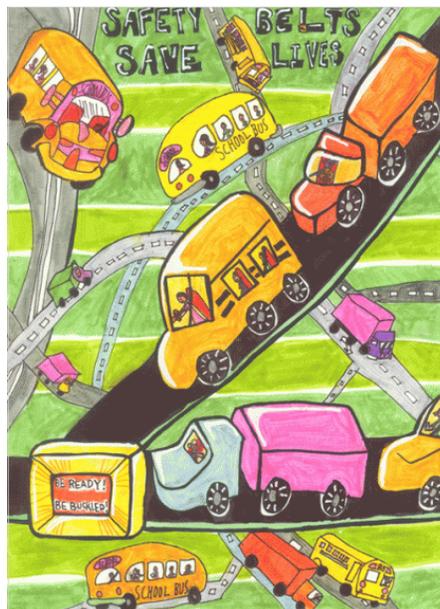
Artwork that best illustrates "the importance of commercial motor vehicle drivers buckling up" with the overarching message "Safety

Belts Save Lives" will win the grand prizes in each of two age categories: Kindergarten-2nd grade and 3rd-6th grades.

An awards ceremony will be held in conjunction with the American Society of Safety Engineers' (ASSE) North American Occupational Safety and Health Week (May 3-9, 2015) celebrations, which will be focused on work safety.

We look forward to seeing the colorful creations of this year's artists!

<http://www.dot.gov/fastlane/kids-invited-share-be-ready-be-buckled-safety-message>



FHWA Every Day Counts 3 (EDC3), 2015-2016

Through the Every Day Counts (EDC) initiative, FHWA works with state and local transportation agencies and industry stakeholders to identify a new collection of innovations to champion every two years. Innovations are selected collaboratively by stakeholders from across the highway community, taking into consideration market readiness, impacts, benefits and ease of adoption of the innovation. Ultimately, a group of approximately a dozen technologies and processes are selected for promotion under each two-year EDC cycle. Sometimes innovations are held over from the previous round of EDC in order to assure a more thorough deployment nationally.

The announcement of the third round of innovations – EDC-3 – came on August 28, 2014. Although the clock doesn't start ticking on EDC-3 until January 1, 2015, the innovations have been announced and diverse technical teams have been established to develop implementation plans for each innovation and to manage the deployment effort over the two-year cycle (2015-2016). Transportation leaders from across the country will gather at regional summits this fall to discuss the EDC-3 innovations and share best practices. These summits begin the process for states, local public agencies and Federal Lands Highway Divisions to focus on the innovations that make the most sense for their unique program needs, establish performance goals and commit to finding opportunities to get those innovations into practice over the next two years. The EDC-3 innovations are outlined below:



Shortening Project Development and Delivery

- ◆ Regional Models of Cooperation
- ◆ Improving Collaboration and Quality Environmental Documentation (eNEPA and IQED)
- ◆ 3D Engineered Models: Schedule, Cost, and Post-Construction
- ◆ e-Construction
- ◆ Geosynthetic Reinforced Soil - Integrated Bridge System
- ◆ Locally Administered Federal-Aid Projects: Stakeholder Partnering
- ◆ Improving DOT and Railroad Coordination (SHRP2 R16)

Mobility

- ◆ Smarter Work Zones
- ◆ Safety
- ◆ Data-Driven Safety Analysis
- ◆ Road Diets (Roadway Reconfiguration)

Quality

- ◆ Ultra-High Performance Concrete Connections for Prefabricated Bridge Elements

Source: Federal Highway Administration

<http://www.fhwa.dot.gov/accelerating/edc3.cfm>

When the clocks change, so do road safety conditions

Posted by Todd Solomon

So, you've spent your Sunday setting the clocks in your home back an hour. Now, it's time to think about the road safety consequences of the time change and the onset of less and less daylight as fall turns to winter.

Generally, evening hours are the deadliest time on the road, so drivers *and* pedestrians should be on guard with the end of Daylight Saving Time when we essentially add an hour of evening.

The time change means that darkness abruptly falls an hour early. So today, if you're used to driving around in afternoon light at 4 p.m., the roads are going to look a lot different in what will now be evening light. Adjust your driving accordingly.

And for pedestrians, particularly children walking home from school in the late afternoon, the change in daylight means taking steps to make sure you're seen by nearby drivers.

In 2012, a pedestrian was killed every 2 hours and injured every 7 minutes in traffic crashes. Most of these pedestrian deaths occur in urban environments, and one quarter of pedestrian fatalities occur from 4:00 p.m. to 8:00 p.m.

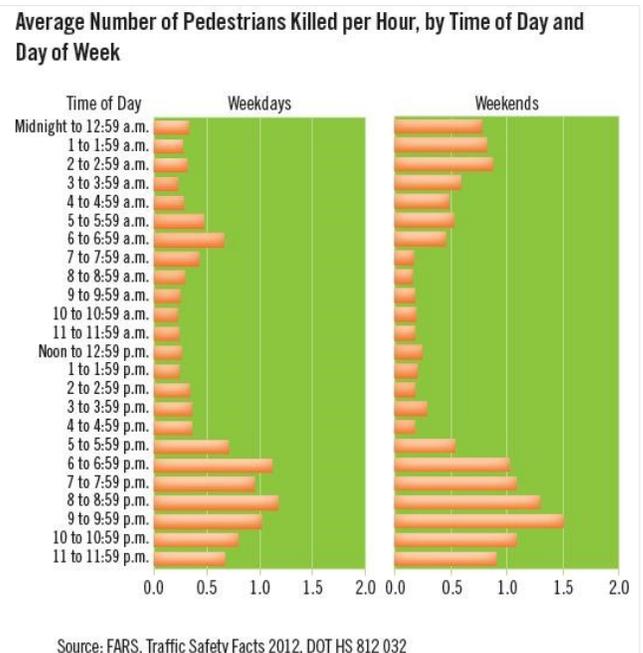
So the National Highway Traffic Safety Administration has put together some useful tips for motorist and pedestrian safety during the shorter days of fall and winter:

For Motorists

- ◆ Slow down. During the evening hours, you need more time to see a pedestrian in your path.
- ◆ Keep in mind that pedestrians who are wearing headphones, hats or earmuffs may not hear your vehicle as it approaches.
- ◆ Keep your windshield, windows, and mirrors clean. Make sure your defrosters and windshield wipers are working properly and that washer fluid is replaced as needed.

For Pedestrians

- ◆ Carry a flashlight or attach reflective materials - such as fluorescent tape - to clothing, backpacks, purses, and briefcases.
- ◆ Don't depend on the traffic signal to protect you. Motorists may be distracted, especially when adjusting to the nighttime travel environment.
- ◆ Use crosswalks. Avoid jaywalking and crossing between parked vehicles.
- ◆ Walk on sidewalks whenever possible. If you must walk on the street, face traffic.
- ◆ When crossing the street, look left-right-left for cars from the curb.
- ◆ Do not cross the street if a car is coming and use a crosswalk if available.
- ◆ Watch out for cars at every driveway and intersection.
- ◆ Pay attention to what is happening on the road and avoid distractions.



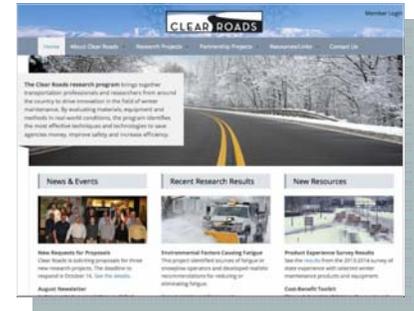
On the web - January 2015

The new Clear Roads website is live at <http://clearroads.org>. The redesigned site presents a wealth of information about the Clear Roads program, projects and partnership efforts using a streamlined navigational structure. Visit the site for the latest Clear Roads news and resources, including:

Quarterly Winter Maintenance Newsletter

Clear Roads produces a quarterly newsletter that captures the latest research and news on winter maintenance technology and practices within the U.S. and around the world, providing links to recent reports, guidance documents, news articles, and research updates.

<http://clearroads.org/winter-maintenance-newsletter/>



Everyone is a Pedestrian - National Highway Traffic Safety Administration

Everyone has different preferences when it comes to transportation, but there's one that all road users share—everyone is a pedestrian. Unfortunately, pedestrians were one of the few groups of road users to experience an increase in fatalities in the United States in 2012, totaling 4,743 deaths.

<http://www.nhtsa.gov/nhtsa/everyoneisapedestrian/index.html>



Guide to Using Existing Pavement in Place and Achieving Long

http://onlinepubs.trb.org/onlinepubs/shrp2/SHRP2_S2-R23-RW-2.pdf

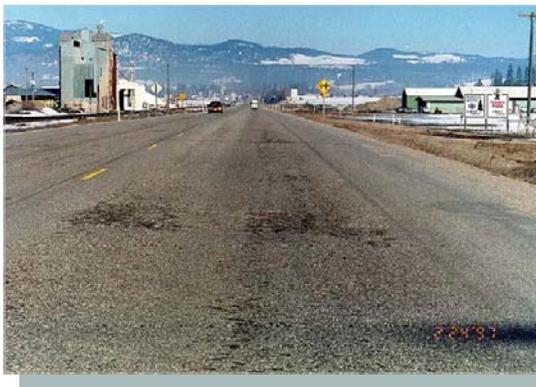


Figure on left shows illustration of raveling.

Construction Inspection for Public Works Projects

(18 PDH credits)

March 23-25, 2015

Raleigh, NC

Member price \$250 for three days training - includes materials and lunches

<http://northcarolina.apwa.net/EventDetails/4540>

Advanced Construction Inspection for Public Works Projects

(12 PDH credits)

April 16 - 17, 2015

Matthews, NC

Member price \$250 for 2 1/2 days training - includes materials and lunches

<http://northcarolina.apwa.net/EventDetails/3133>





Let Us Know . . .

To update your mail information, add a colleague to the database or obtain information about the Roads Scholar Program,

Fax this sheet to 919-515-8898 or

email to Linda Collier linda_collier@ncsu.edu

Your Name: _____

Company/Organization: _____

Address: _____

City: _____ State: _____ Zip: _____

Phone: _____

Fax: _____

email: _____

Check Appropriate items:

- Add/update to the NCLTAP listserv NCTROADS
- Send information about Roads Scholar program
- Send schedule of Training opportunities



NCTROADS: A listserv that works for you!

NCTROADS, the NC LTAP listserv, is an informal network for the exchange of news about current research, discussion of problems and solutions, request for advice and assistance, and announcements of upcoming conferences, events and training opportunities for transportation personnel.

Once you are subscribed, you can send a message all the listserv members at NCTROADS@lists.ncsu.edu



To Subscribe:

Send a email to linda_collier@ncsu.edu and ask to be added to NCTROADS

To Post A Message (after you subscribe):

Send an e-mail message to: NCTROADS@lists.ncsu.edu

Check out the online video library

<http://www.itre.ncsu.edu/LTAP/techAssist/videolibrary.asp>

Registration Form

North Carolina Local Technical Assistance Program

January - May 2015

Register by Mail: Fill out a copy of this form and mail with a *check payable to NC State University*
ITRE/NC State, Attention: Bill Woods, Campus Box 8601, Raleigh NC 27695-8601

By Email: bill_woods@ncsu.edu

Online: <http://www.itre.ncsu.edu/LTAP/education/index.asp>

Sign Me Up	Date	Class Title	Location	RS/ARS	Cost
	January 26	Trenching 'Competent Person'	Durham	ARS	\$150.00
	February 10	Asphalt Pavement Maintenance	Raleigh	RS	\$125.00
	February 11	Soils Fundamentals	Raleigh	RS	\$125.00
	February 12	Maintenance and Repair of Utility Cuts	Raleigh	RS	\$90.00
	February 13	Trenching 'Competent Person'	Kings Mountain	ARS	\$150.00
	March 3-5	Work Zone Supervisor	Durham	ARS	\$425.00
	March 6	Work Zone RECERTIFICATION	Durham	ARS	\$150.00
	March 16	Motorgrader Operator Safety	Raleigh	RS	\$150.00
	March 17	Backhoe Operator Safety	Raleigh	RS	\$150.00
	March 18	Asphalt Roller Operator Safety	Raleigh	RS	\$150.00
	March 27	Concrete: What? When? and How?	Albemarle	RS	\$175.00
	April 13	Road Safety 365	Raleigh	RS	\$125.00
	April 14	How to Keep Yourself/Your Agency Out of Court	Raleigh	ARS	\$125.00
	April 15	Designing Pedestrian Facilities for Accessibility	Raleigh	ARS	\$135.00
	April 16	Road Safety 365	Durham	RS	\$125.00
	April 28	Basic Work Zone Safety	Kings Mountain	RS	\$125.00
	April 29	Intermediate Work Zone Safety	Kings Mountain	RS	\$125.00
	April 30	Flagging Instructor RECERTIFICATION	Kings Mountain	ARS	\$150.00
	May 1	Flagger Training	Kings Mountain	RS	\$90.00

Confirmation letters with class detail will be **emailed** 2 weeks prior to the class. Dress is casual.

Name: _____ Department: _____

Title: _____

Agency: _____ Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Fax: _____

Email: _____

Supervisor's Name: _____ Title: _____

Confirmation email should be sent to: _____

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 Robert McCain, NCSU/ITRE
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 Hubie Mercado, Governor's Highway Safety Office
 Edward Parker, FHWA/NCDOT



LTAP Links on the Web

NC LTAP	http://itre.ncsu.edu/LTAP/
National LTAP/TTAP	http://www.ltapt2.org/
Federal Highway Administration (FHWA)	http://www.fhwa.dot.gov/
Institute of Transportation Engineers (ITE)	http://www.ite.org/
U.S. Department of Transportation	http://www.dot.gov/
NCSITE (NC Section of Institute of Transportation Engineers)	http://www.ncsite.org/NCSITE.html
North Carolina Department of Transportation (NCDOT)	http://www.ncdot.org/
NCDOT Safety & Loss Control	http://www.ncdot.org/doh/safety/
School of Government	http://www.sog.unc.edu/

Transportation Tracks is published quarterly by the North Carolina Technology Transfer Center at the Institute for Transportation Research and Education (ITRE), North Carolina State University (NCSU), in cooperation with the North Carolina Department of Transportation (NCDOT) and sponsored by the Federal Highway Administration (FHWA) through its Local Technical Assistance Program (LTAP). Center staff include: James B. Martin, P.E., Director; Linda Collier, Assistant Director and Newsletter Editor; and Bill Woods, Program Assistant.

To be added to the mailing list or to submit articles for the newsletter, contact the center at ITRE: NCSU Centennial Campus, Box 8601, Raleigh, NC, 27695-8601. Phone: (919) 515-8899. Fax: (919) 515-8899. Web site: www.itre.ncsu.edu. Address correction requested. Any opinions, findings, conclusions, or recommendations expressed herein are those of the author(s) and do not necessarily reflect the findings, policies, or procedures of ITRE, NCSU, NCDOT, or FHWA.

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