



transportation TRACKS

North Carolina Local Technical Assistance Program (LTAP) Newsletter

Summer 2019



Above left to right: Ralph M. Evangelous, Wilmington Chief of Police; Eric Lippert, Police Officer, Traffic Unit; Bill Woods, NCLTAP Program Manager

Build a Better Mousetrap Winner Announced

City of Wilmington - Temporary Roundabouts

NC LTAP received impressive applications for the 2019 Build a Better Mousetrap Competition and all of our state's applications have been sent to FHWA to participate in the National Competition. However, one innovation stood out, and that was Eric Lippert's temporary roundabouts following Hurricane Florence in September 2018.

The City of Wilmington was confronted with long term power outages affecting traffic lights at several major intersections. Typically, a powerless intersection requires a mandatory 4-way stop with 4 officers managing the traffic. Instead, at 4 major intersections temporary roundabouts were set up, using traffic cones, 'roundabout' signs, chevron signs, and yield signs. The Police Department worked with City Traffic and Engineering to obtain some of the traffic cones and the signage. It took 4-6 people to set up a temporary roundabout and afterwards required little maintenance and just 1 officer.

With these roundabouts in place for 3-4 days scores of Police Officers were available to answer calls for service instead of managing traffic control. No traffic crashes occurred at these main thoroughfares while the temporary roundabouts were in place.

NCLTAP is excited about this new way to share local innovations with towns and cities across the state. In the next edition of transportationTRACKS we will review the submissions from the Town of Apex and the City of Asheville. Hopefully their solutions will spark an idea for your city or town and next year you can submit an application for the 2020 Build a Better Mousetrap Competition!



In This Issue

Build a Better Mousetrap Winner Announced - p. 1

Introduction to Unmanned Aircraft Systems - p. 2

Bringing Attention to the Rural Roadway Departure Challenge - p. 2

Low-Cost Safety Improvement Videos Available - p. 3

NC LTAP Roads Scholar Programs - p. 4

Bureau of Transportation Statistics - p. 4

Get The Picture! - p. 4

NC LTAP News & Updates - p. 5

NCTROADS Listserv - p. 5

NC Local Technical Assistance Program 2019 Schedule - p. 6

transportation**TRACKS**
Technology Transfer Newsletter

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itre.ncsu.edu





Get the Picture!

Can you tell what's wrong with this picture? Turn to page 5 to see what the problem is.



Introduction to Unmanned Aircraft Systems

NCLTAP held their first Introduction to Unmanned Aircraft Systems (commonly called drones) class on July 16th. Students learned about the pilot's test, what needs to be considered when setting up a drone program, and even had a chance to fly a drone themselves out in the field. If your agency is interested in setting up a drone program let us know!

Bringing Attention to the Rural Roadway Departure Challenge

by Cate Satterfield, FHWA Office of Safety

The Every Day Counts round 5 (EDC-5) Focus on Reducing Rural Roadway Departures (FoRRRwd) team has been working to spread the word about this new effort to reduce rural roadway departure crashes, which account for approximately one-third of roadway fatalities across the Nation. The mission is to reduce the potential for serious and fatal roadway departure crashes on all public rural roads by increasing the systemic deployment of proven countermeasures. With "all public roads" being the focus, the team is refining its processes and honing its messages to reach more State, local, Federal and Tribal practitioners and encourage the systemic approach to these crashes. Taking the message on the road, in February, the Resource Center's Dick Albin attended the ATSSA Convention and Traffic Expo in Tampa, FL, where he gave presentations to several committees as well as the general session on the topic of the FoRRRwd initiative. These presentations offered attendees an overview of the initiative and informed them about the ways that FHWA is working with transportation agencies to identify new countermeasures they can deploy to improve rural road safety.

The FoRRRwd booth at the ATSSA Expo also marks the introduction of a new display to an interested audience of roadway infrastructure safety professionals. The new display contains the tagline, "30 people will die today from rural roadway departures. Let's save the people behind the numbers." The team selected this message to communicate the importance and



urgency in addressing this problem. "Every group we have spoken to includes survivors of a roadway departure, and we have encouraged them to tell their stories. But we have to remember there are also those who didn't survive, and we want to do everything we can to stop the roadway departures that happen today, tomorrow, and every day after from having deadly results," said Albin.

This new display is available to FHWA staff from the report center upon request and may be displayed at local or regional safety conferences or events to encourage State and local agencies to explore the many countermeasures that can reduce rural roadway departures. A one-page handout specifically about this EDC-5-5 effort is also available, as are several existing resources discussing the systemic process and countermeasures that are appropriate to distribute. Where a smaller display is more appropriate, a roll-up banner featuring some of the countermeasures is also available.

While at the event, Albin also answered questions about the FoRRRwd initiative and provided informational handouts, including baseball-style trading cards that offer a quick description of the use and effectiveness of a series of "All-Star Roadway Departure Counter-measures." The trading cards were so well received, Albin was even asked to autograph one of them!

In addition to the new display, the team also introduced a new identifier for the initiative. This identifier will brand the initiative and improve user recognition of the products and resources developed to promote countermeasures.

Continues on page 3 ...

Low-Cost Safety Improvement Videos Available

FHWA posted the Low-Cost Safety Improvements video series on YouTube. These are available for your use on social media, presentations or any use that might be beneficial to your agency.

All videos: <https://www.youtube.com/user/USDOTFHWA/videos>

Video-specific links:

- Enhanced delineation on horizontal curves:
<https://www.youtube.com/watch?v=4riUd1MJ5Yw>
- For Unpaved Roads:
<https://www.youtube.com/watch?v=-Llkiz8cEH8>
- Speed Management Techniques:
<https://www.youtube.com/watch?v=N41pJPOHTh0>
- For Walking and Biking:
<https://www.youtube.com/watch?v=sP-nce7bVEg>
- Systemic Approach for Stop-Controlled Intersections:
<https://www.youtube.com/watch?v=zghd9qUfGg>
- Longitudinal Pavement Markings:
https://www.youtube.com/watch?v=ITOsIqaG_0A



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Advancing Implementation

Programmatically, the team is advancing progress through its implementation plan, which was finalized in February. The plan outlines a marketing strategy to help the States and other agencies meet the goals for their initiatives based on the current implementation stage and advancement goals of each State as reported to FHWA.

The FoRRRwD initiative identifies five implementation stages for participating States, and each agency must establish its own goals for advancement. Each stage of progression reflects increasing capability with regard to applying the systemic approach when selecting and installing RwD countermeasures as well as progress in developing guidance, policies, and processes to advance the use of rural RwD countermeasures.

- Not implementing – State and local agencies are not implementing a systemic approach to rural RwD that encompasses all rural roadways regardless of description.
- Development – State and local agencies are collecting guidance and best practices on systemic analysis, building support with partners and stakeholders, and developing an implementation process to improve rural roadway safety regardless of ownership.
- Demonstration – State, local, Federal, and Tribal agencies are piloting systemic analysis for deploying RwD countermeasures on rural roadways regardless of jurisdiction.
- Assessment – State, local, Federal, and Tribal agencies are assessing the process for systemic application of RwD countermeasures and are developing guidance, policies, and processes to advance rural RwD countermeasures.
- Institutionalized – State, local, Federal, and Tribal agencies have adopted systemic analysis for deploying RwD countermeasures on rural roads as a standard practice and use them regularly on all public roads. Guidance, policies, and processes are established and in place to advance rural RwD countermeasures.

Of the 32 States with advancement goals, 5 have ambitiously opted to strive to advance 2 or more steps forward during the current EDC round.

As the FoRRRwD team advances, the following plans are in the works, including:

- Producing a video.
- Developing training.
- Holding peer exchanges.
- Offering technical assistance for:
 - Conducting analysis.
 - Drafting local road safety plans.
 - Designing and installing countermeasures.

For more information, visit the Reducing Rural Roadway Departures website or, to get involved, please contact Cate Satterfield at cathy.satterfield@dot.gov or Dick Albin at dick.albin@dot.gov.

NC LTAP Roads Scholar Programs

The Roads Scholar, Advanced Roads Scholar, and Master Roads Scholar programs provide special training programs administered by North Carolina's Local Technical Assistance Program (NC LTAP) that allow local government agencies access to high quality training for their employees at a reasonable cost.

Check the LTAP website and training schedule for dates and locations.

<https://itre.ncsu.edu/focus/ltap/>



Bureau of Transportation Statistics

Do you think about how states differ in road ownership? Who maintains the majority of the roadway in Florida, South Dakota, or Iowa? How North Carolina compares to other states? What about bridge ownership or highway fatalities? The Bureau of Transportation Statistics makes this information, and so much more, available to the public and available to transportation agencies.

<https://www.bts.dot.gov/content/public-road-length-miles-ownership>



Get The Picture!

by Scott Tison

Here's the situation. Utility work is being done near One Lane of a Two Lane, Two Way Road. Needing to shut down part of One Lane, the operation becomes a One Lane, Two Way Road. Traffic will need to be alternated by a Flagger on each end. So, what's wrong with this picture?

If you've been through our Flagger Training, I am hoping that you remember to stand on the shoulder of the road. Your safety, the safety of the crew and that of the motoring public are more important than the job being performed.

You will also remember that it is crucial to establish an escape route for possible dangerous situations. The Manual on Uniform Traffic Control Devices (MUTCD) states in Section 6E-08 Flagger Stations, Note 3, "The Flagger should identify an escape route that can be used to avoid being struck by an errant vehicle." In this scenario, the Flagger is sitting in a chair with his back to traffic. The difficulty in rising from the seated position to avoid an errant vehicle is too difficult a task. This is compounded by the Flagger's lack of looking at traffic coming at him.

If you haven't been through our training, we would like to see you. Again, it is more than legal liability. It is about giving our workers tools for doing their tasks as safely as possible. It is also about keeping your family and my family safe as they traverse our work zones.

If you have any questions about worker's safety or work zone traffic control, give me a call at (919) 515-6949, or you can email me at sitison@ncsu.edu.

NC LTAP News & Updates

To update your mail information, add a colleague to the database, or obtain information about Roads Scholar Program fax this sheet to 919-515-8897 or complete online at go.ncsu.edu/NCLTAPcontact.



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Your Name _____

Company/Organization _____

Address _____

City _____ **State** _____ **Zip** _____

Phone _____

Fax _____

Email _____

Check Appropriate Items

Add/Update email information to NCLTAP listserv NCTROADS

Send information about Roads Scholar program

Send schedule of training opportunities

NCTROADS Listserv

Subscribe to the NC LTAP listserv. It is free and easy. Send a message to linda_collier@ncsu.edu and ask to be added to NCTROADS.

This 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

NC Local Technical Assistance Program 2019 Schedule

Questions or Email Registration: kbdaviso@ncsu.edu

For Online Registration: itre.ncsu.edu/training/ltap-training/

Date	Class Title	RS/ ARS/ MRS	Cost	Location	To Sign Up
August 20, 2019	Silica's New Standard - Strategies for Municipal Compliance	ARS	\$150.00	Hickory	Click Here
August 27, 2019	Productive Team Building	MRS	\$150.00	Raleigh	Click Here
August 28, 2019	Emergency Management for Public Works	MRS	\$150.00	Raleigh	Click Here
September 5, 2019	Productive Team Building	MRS	\$150.00	Charlotte	Click Here
September 10, 2019	Basic Work Zone Installer Safety	RS	\$125.00	Raleigh	Click Here
September 11, 2019	Basic Work Zone Installer Safety	RS	\$125.00	Raleigh	Click Here
September 12, 2019	Intermediate Work Zone Safety	RS	\$150.00	Raleigh	Click Here
September 13, 2019	Flagger Training	RS	\$90.00	Raleigh	Click Here
September 16, 2019	Work Zone Supervisor Recertification	ARS	\$150.00	Raleigh	Click Here
September 17-19, 2019	Work Zone Supervisor Safety Training	ARS	\$425.00	Raleigh	Click Here
October 2, 2019	Chain Saw Safety	RS	\$90.00	Raleigh	Click Here
October 4, 2019	Silica's New Standard - Strategies for Municipal Compliance	ARS	\$150.00	Raleigh	Click Here
October 8, 2019	Flagging Instructor Recertification	ARS	\$150.00	Charlotte	Click Here
October 9, 2019	Snow and Ice Control	RS	\$150.00	Hickory	Click Here
October 9-10, 2019	Flagging Instructor Training	ARS	\$225.00	Charlotte	Click Here
October 11, 2019	Flagger Training	RS	\$90.00	Charlotte	Click Here
October 15, 2019	Basic Mathematics for Transportation Personnel	RS	\$125.00	Kings Mountain	Click Here
October 16, 2019	Plan Reading for Transportation Personnel	RS	\$90.00	Kings Mountain	Click Here

LTAP Links on the Web

Transportation Information at your fingertips!

NC LTAP	https://itre.ncsu.edu/focus/ltap/
National LTAP/TTAP	http://www.nltapa.org/
NC Department of Transportation (NCDOT)	https://www.ncdot.gov/
Federal Highway Administration (FHWA)	https://www.fhwa.dot.gov/
US Department of Transportation (USDOT)	https://www.transportation.gov/
UNC School of Government	https://www.sog.unc.edu/
Institute of Transportation Engineers	http://www.ite.org/
NC Section of ITE (NCSITE)	http://ncsite.org/
APWA - NC Chapter	http://northcarolina.apwa.net/
NLTAPA Tailgate Talks	http://www.nltapa.org/articles/nltapa-tailgate-talks
Summer Driving Tips - staying safe	https://icsw.nhtsa.gov/nhtsa/tips/summer/

NC LTAP Advisory Board

Derrick Bunn (<i>City of Wilson</i>)	Mike Mabe (<i>City of Greensboro</i>)
David Deel (<i>City of Greensboro</i>)	Ken Martin (<i>City of Charlotte - Retired</i>)
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Eric Lamb (<i>City of Raleigh</i>)	Eddie Staley (<i>WithersRavenel</i>)



Program Staff

James Martin, PE

LTAP Director
jbm@ncsu.edu
 919-515- 8620

Linda Collier

Assistant Director
linda_collier@ncsu.edu
 919-515- 7990

Bill Woods

Program Coordinator
bill_woods@ncsu.edu
 919-515- 8033

Kate Davison

LTAP Program Manager
kbdaviso@ncsu.edu

transportationTRACKS

NC LTAP
 ITRE at NC State University
 Centennial Campus Box 8601
 Raleigh, NC 27695-8601
www.itre.ncsu.edu

