

National Surface Transportation Safety Center for Excellence

Outreach Activities

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NSTSCE Outreach Goal

While research and technology development are the primary goals of NSTSCE, the stakeholders and research team understand the importance of disseminating the results to the surface transportation research community and to the public. While NSTSCE and its research programs are products of the entire team and are meant to stand on their merits, creation of an independent identity for NSTSCE provides a focal point for the public, policy makers, and the research community and thereby improves access and dissemination of research results.



1ST NSTSCE Outreach Project

International Symposium on Naturalistic Driving Research

- First 2008
 - 126 Total Registered
 - 1 Workshop Topic
- Second 2010
 - 130 Total Registered
 - 1 Workshop Topic
- Third 2012
 - 153 Total Registered
 - 2 Workshop Topics







Third International Symposium on Naturalistic Driving Research

August 27 - 30, 2012

Researchers and practitioners will gain hands-on experience with Naturalistic Driving Study data during the workshops, participate in various panel discussions, including an international review of naturalistic driving research, teen driving research to the next generation of NDS studies.

Visit http://www.vtti.vt.edu/conferences/ndrs-2012. php for more information or contact Sherri Box: sbox@vtti.vt.edu



NSTSCE Senior Mobility Day





Senior Mobility

Objective



Senior Mobility Awareness Symposium When: December 6, 2012 Where: The Innat Virginia Tech Gost. 590/person

- One-day senior driving and transportation topics
 - NSTSCE with the support of the Center for Gerontology at Virginia Tech.
 - Senior Mobility Awareness Symposium, December 6, 2012

Overview

- Train and educate community professionals on the changing driving and transportation needs faced by seniors and strategies used to address them
- Core group to establish a local coalition to enhance community response to the transportation and mobility needs of older adults living in the NRV
- Raise awareness (community leaders, policymakers) and the implications for building livable communities in the NRV



Senior Mobility Symposium

Pre Symposium Questionnaire –

Gain a better understanding of the issues professionals face working with the aging population



Tell us what you would like to share and learn.





Featured Topics and Speakers

- Opening Keynote Address: Federal Perspective on Senior Mobility
 - Essie Wagner, NHTSA
- Functional Assessment and Training
 - Lisa Molnar, UMTRI/M-CASTL (Michigan Center for Advancing Safe Transportation Throughout the Lifespan)
 - Jon Antin, VTTI/NSTSCE
 - Jackie Banche, DMV
- Lunch and Keynote Address
 - Kathryrn Freund, iTNAmerica
- Vehicle, Infrastructure, and Education-Based Countermeasures
 - Brian Reimer, MIT AgeLab
 - Bill Kallio, AARP
 - Nancy Brossoie, Senior Mobility in the NRV, VT Center for Gerontology
- Demonstrations

Panel Discussion: Urgent Needs in Senior Mobility

NSTSCE Evaluation of Light-vehicle Driver Education Programs Targeting Sharing the Road with Heavy Vehicles: Case Study Analysis





Drivers Ed Case Study

Objective

Develop best light-vehicle practices on sharing the road with heavy vehicles

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- Overview
 - Utilize information obtained from previous NSTSCEfunded survey study combined with newly acquired information from program evaluations to develop best practices
 - A case study will be implemented in a high school driver education program in West Virginia introducing one or more best practices



Drivers Ed Case Study: Outreach

- Journal articles in press
 - Journal of Safety Research (others to come)
- Design of a dedicated website for this research project
- Planning presentations at two to four conferences and presentations associated with teen driver education





NSTSCE Driver Health Website



Driving Healthy





Objective

 To provide commercial drivers with relevant health information allowing them to make healthier lifestyle choices while on the road

Overview

- Commercial motor vehicle drivers are typically a medically underserved population
- Drivers' health is related to driving safety
- Current project seeks to improve usability by providing new outreach tools and updated and dynamic information

Driving Healthy: Outreach

- DrivingHealthy.org
 - Enhanced driver resource center
 - Monthly health focus
 - Links to social media and RSS feed
- Health Conferences
 - NIH Conference on the Science of Dissemination
 - TRB Driver Health and Wellness Conference
- Connection to government health outreach efforts
 - Secretary of Transportation and NIOSH acknowledgment
 - ChooseMyPlate.gov community partner





Driving Healthy Online







@DrivingHealthy



Facebook.com/DrivingHealthy



http://tinyurl.com/DrivingHealthyRSS





NSTSCE CMV Driver Distraction Outreach





fmcsa.dot.gov/about/outreach/education/drivertips

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Distraction Outreach

Objective



Expand and enhance the driver distraction section of the FMCSA-hosted CMV Web-Based Driving Tips site

Overview

- Update sites distraction section with information from the latest CMV distraction studies
- Simplify the current distraction text
- Create a printable driving tips sheet
- Translate all new material into Spanish

When driving, keep your mind engaged with driving-related information and try to avoid focusing on external objects such as billboards or buildings or internal objects such as a cell phone or paperwork. Original Text – 17 Grade Level

You should avoid focusing on things outside of your truck that aren't related to driving. This includes things like billboards, buildings, and people. Revised Text – 7 Grade Level



Distraction Outreach

Outreach

- Entire text was reviewed and revisions made to ensure that it was presented in a more direct and simple form
- New videos were identified illustrating the dangers of text messaging and dialing
- Distraction text and tips sheet translated to Spanish

Driver Distraction

€Outreach & Educatio **CMV Driving Tips** Project Background Failure to Buckle Up Too Fast for Conditions Unfamiliar Roadway Inadequate Surveillance Driver Fatigue Driver Distraction Following Too Closely

Inadequate Evasive Action Documents

References

Distraction can be defined as any time a driver diverts his/her attention from the driving task. This may include esternal distractions, such as looking out the window at a passing building, street sign, or preson, or internal distractions, such as taking on a cell phone, eating, reading, or adjusting the radio. The Large Truck Crash Casuation Study (LTCCS) reported that b percent of large-truck crashes occurred when Commercial Motor Vehicle (CMV) drivers were esternally distracted and 2 percent of large truck crashes occurred when the driver was internally distracted.¹⁵ Below are some tips that will help you stay attentive to the road ahead.

TIP # 1: DO NOT FIXATE ON NON-DRIVING RELATED OBJECTS

When driving, keep your mind engaged with driving-related information and try to avoid focusing on externa objects such as billboards or buildings or internal objects such as a cell phone or paperwork. Remember that all distractions can be dangerous. Paying attention to driving-related information will help you determine when and where there are vehicles around you and will also enable you to react more quickly to any unforeseen event.

Did You Know? A study published in April 2006 found that driver inattention was the leading factor in crashes and near crashes. The study reports that nearly 80 percent of crashes involved some form of driver inattentior within 3 seconds before the incident.14

Did You Know? Inattention or other mental activities distracting you from driving can cause you to gaze blindly at the road and/or objects ahead without actually seeing/recognizing them because your attention is focused somewhere else.64

An example of an external distraction is shown in the video clip below. Training exercise questio follow the video clip.



VIDEO DESCRIPTION: The CMV driver is traveling in the right lane of a two-lane highway on wet pavement during the day. The driver becomes distracted with something out his right window as traffic begins to slow ahead of him. The driver returns focus to the forward roadway and has to brake quickly and move into the left

Driver Distraction Section of the CMV Web-Based **Driving Tips Site**

Driver distraction is the diversion of attention from activities critical for safe driving to a competing activity. English text

La distracción del conductor es el desvío de la atención de actividades esenciales para una conducción segura hacia otra actividad. Spanish text



Heavy Vehicle Safety Outreach

Objective



Create an instructional package for fleet safety managers and officials that may be delivered in an informal manner. This package will provide information on the latest research findings related to HV safety.

Overview

The culmination of this project will be a pilot-session of the instructional package with a group of safety managers.

Outreach

 Make available to safety managers at commercial fleets the latest HV research findings in areas such as fatigue and distraction



Obstructive Sleep Apnea (OSA) Case Study

Objective

 Develop a set of best practices in implementing and maintaining a successful OSA program to serve as a guide for commercial vehicle operations (CVOs)



Overview

- Detail and compare/contrast two leading U.S. carrier's OSA programs
- Assess opinions and perceptions of drivers and staff
- Assess effectiveness of the program to screen, test, and treat OSA among CMV drivers in terms of safety, health and cost benefits

Outreach

 Working with several sleep, health, and transportation organizations to disseminate the findings of the case study



ATA, FTA, NIOSH, ATRI, OOIDA, AASM, ASAA, NSF

Driver Coach

Objective

Teen monitoring system to improve teen safe driving



performance while they are learning to drive

Outreach

Safety Center for Excellence

- Present at Parent/Teen Safe Driving Meetings at area high schools
 - Inform parents and teens of the most risky activities teens do while driving and how to alleviate these risks with driving contracts
 - Presented to over 600 parents and teens (Montgomery County and Roanoke County high schools)

NSTSCE's Page: http://www.vtti.vt.edu/nstsce.php









http://scholar.lib.vt.edu/VTTI/

Questions?

Research In Motion = Outreach!



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