

# NSTSCCE

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**National Surface Transportation  
Safety Center for Excellence**

Driving With Impairments

# NSTSCE Focus Area: Driver Impairment

- Driver Impairment
  - ▣ Previously referred to as “Development of Techniques to Address Fatigued Driver Issues”, as directed in the SAFETEA-LU language
  - ▣ Broadened in 2011 to capture fatigue along with other driver impairments (and related issues)
  - ▣ New term more closely reflects Board-directed research projects

# Completed Studies

- Fatigue analysis using naturalistic commercial motor vehicle driving data
  - ▣ [http://scholar.lib.vt.edu/VTTI/reports/FatigueAnalyses\\_061208.pdf](http://scholar.lib.vt.edu/VTTI/reports/FatigueAnalyses_061208.pdf)
- Commercial motor vehicle health and fatigue study
  - ▣ [http://scholar.lib.vt.edu/VTTI/reports/Health\\_and\\_Fatigue\\_021109.pdf](http://scholar.lib.vt.edu/VTTI/reports/Health_and_Fatigue_021109.pdf)
- Developing and validating a naturalistic Observer Rating of Drowsiness (ORD) measure
  - ▣ [http://scholar.lib.vt.edu/VTTI/reports/ORD\\_Final\\_Report\\_022509.pdf](http://scholar.lib.vt.edu/VTTI/reports/ORD_Final_Report_022509.pdf)

# Completed Studies

- Commercial Motor Vehicle (CMV) driver health and fatigue study identifying high-risk commercial truck drivers using a naturalistic approach
  - ▣ [http://scholar.lib.vt.edu/VTTI/reports/HighRiskCMVDriversFinalReport\\_06302011.pdf](http://scholar.lib.vt.edu/VTTI/reports/HighRiskCMVDriversFinalReport_06302011.pdf)
- U.S.-EU common distraction driving taxonomy
  - ▣ [http://scholar.lib.vt.edu/VTTI/reports/DistractioTaxonomyCodingScheme\\_FinalReport12072011.pdf](http://scholar.lib.vt.edu/VTTI/reports/DistractioTaxonomyCodingScheme_FinalReport12072011.pdf)
- Case study on the impact of treating sleep apnea in commercial motor vehicle drivers
  - ▣ <http://scholar.lib.vt.edu/VTTI/reports/TreatingSleepApneaFinalReport08022012.pdf>

# Ongoing Studies

- Assessing the risk of talking during high and low driving task demands
- Case study on a worksite health and wellness program for commercial drivers
- Commercial driver health and well-being, phase II
- Supporting commercial motor vehicle driver distraction outreach
- Supporting commercial motor vehicle driver health outreach efforts

# Published Reports

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

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