

Automated Vehicle Policy and Regulation A State Perspective Workshop



May 18, 2016 • 9:00 AM to 3:30 PM • Howard Frank Auditorium/Robert. H. Smith School of Business
University of Maryland • College Park, MD

Photo Source: USDOT

The focus of this workshop is to identify key principles the states will need to make effective policy decisions to enable the safe operation of advanced automated vehicles (sometimes called autonomous, self-driving, or driverless vehicles) on their roadways. The current approach is unsystematic considering the huge impact this new technology will have on our roads. A few states permit testing of these vehicles either through legislation or order of the governor, while others are testing without this official approval. In the interim states are relying on their existing vehicle laws to govern automated and autonomous vehicle operations until appropriate policy and regulations are identified.

With this as background and point of departure, this workshop seeks to identify key principles that can provide a foundation for the common operation of automated vehicles across the states. This is critical to insure safe operations, efficient travel, and environmental benefits at the introduction of automated vehicles as well as to speed the deployment of future advances.

Participating Organizations



Program

- 08:45 AM – 09:00 AM
Registration
- 09:00 AM – 09:30 AM
Opening remarks
- 09:30 AM – 10:45 AM
Framing the Basics
- 10:45 AM – 11:00 AM
Break
- 11:00 PM – 12:15 PM
Influences on Policy Decisions
- 12:15 PM – 01:15 PM
Lunch
- 01:15 PM – 02:30 PM
State Legislator Forum &
Panel Discussions
- 02:30 PM – 02:45 PM
Break
- 02:45 PM – 03:30 PM
Different Perspectives &
Closing Remarks

Sponsored by:



(For Auditorium location map, go to: <http://maps.rhsmith.umd.edu/page1.htm>)



Our Speakers



***Lei Zhang, Associate Professor and Director
National Transportation Center***

Dr. Lei Zhang is a member of four Transportation Research Board (TRB) Committees and has served as the Chair of the Transportation Science and Logistics Cluster of the Institute for Operations Research and Management Sciences (INFORMS), Secretary of the World Society for Transport and Land Use Research (WSTLUR), and Vice President of the Chinese Overseas Transportation Association (COTA). He has a B.S. in Civil Engineering from Tsinghua University, M.S. degrees in Civil Engineering and Applied Economics and a Ph.D. in Transportation Engineering from the University of Minnesota.



***Trish Hendren, Executive Director
I-95 Corridor Coalition***

Dr. Hendren has over 18 years of experience working with State DOTs, MPOs and transit agencies. Her focus has been on helping organizations connect resource allocation decisions to results, overcome internal barriers to data-based decision-making and articulate the case for additional funding. She is the author of numerous publications, including a forthcoming article on transit travel time reliability which received the 2016 Transportation Research Board (TRB) William W. Millar Award for the best paper in the area of public transportation.



***Bryant Walker Smith, University of South Carolina
School of Law, School of Engineering***

Mr. Smith is an affiliate scholar at the Center for Internet and Society at Stanford Law School, and chair of the Emerging Technology Law Committee of the Transportation Research Board of the National Academies. Mr. Smith's research focuses on risk, technology, and mobility. He holds both an L.L.M. in International Legal Studies and a law degree from New York University School of Law, in addition to a B.S. in civil engineering from the University of Wisconsin.



***Robert Peterson, Professor
Santa Clara University***

Professor Peterson teaches torts, insurance law and regulation, evidence and products liability, and other courses. He is a past chair of the California State Bar Standing Committee on Insurance Law, and is director of the Law School's Center for Insurance Law and Regulation. He has a B.A. from San Diego State University and a J.D. from Stanford Law School.



***Frank Douma, State and Local Policy Program Director
Humphrey School of Public Affairs, University of Minnesota***

Mr. Douma manages research projects related to transportation policy, including the impact of information and communications technologies, alternative transportation options in both large and small communities, and freight movement. Mr. Douma has worked for the Canadian Pacific Railway and the Minnesota Department of Transportation. He has a Master's in Public Affairs and a law degree from the University of Minnesota.



Our Speakers (cont'd.)



Dorothy Glancy, Professor of Law
School of Law, Santa Clara University

Professor Glancy is nationally known for her extensive work in the area of privacy and transportation law. She has worked with the U.S. Department of Transportation regarding privacy policy issues and served as a consultant regarding legal and regulatory issues for the U.S. Department of Transportation's Rural Interstate Corridor Communications Study Report to Congress. She has a B.A. from Wellesley College and a J.D. from Harvard Law School.



James M. Anderson, Director of Justice Policy Program
Rand Corporation

James Anderson is a senior behavioral scientist at the RAND Corporation and a professor at the Pardee RAND Graduate School. He serves as director of the Justice Policy program and of the Institute for Civil Justice. He is a member of the Transportation Research Board of the National Academies Committee on Vehicle Highway Automation. He received a J.D. from Yale Law School and a B.A. in ethics, politics, and economics from Yale University.



Kelsey Brunette, Ideation Analyst
Munich Reinsurance America, Inc.

In Kelsey Brunette's current position as an Ideation Analyst in the Incubator, a strategic business unit within New Strategic Markets, her main responsibilities are vetting and analysis of new products and services, project management and coordination for Innovation Domains. She is a graduate of the University of Michigan's School of Business and Michigan State's College of Law. She also spent time at the Michigan Department of Insurance, Michigan Millers Mutual Insurance, Ford Motor Company and GMAC.



Delegate Glenn R. Davis
Virginia House of Delegates, 84th District

Delegate Glenn R. Davis represents the 84th House District in the Virginia General Assembly. He serves on the Education and Transportation Committees, and is the Chairman of the Joint Commission on Technology and Science Subcommittee on Cybersecurity. Prior to his election to the General Assembly, Glenn started a telecommunications firm that Inc. magazine, in 2007, named one of the fastest growing IT firms in the country.



Delegate David Fraser-Hidalgo
Maryland General Assembly, 15th District

Delegate David Fraser-Hidalgo represents Montgomery County's 15th House District in the Maryland House of Delegates. His committee assignments include Environment and Transportation, and its motor vehicle and transportation subcommittee. Major focus areas include the environment, renewable energy, and electric car sales (Tesla).



Our Speakers (cont'd.)



State Senator Mark Green

Tennessee General Assembly, 22nd District

Senator Mark Green MD, served in the US Army as an Infantry Officer and Emergency Medicine Physician from 1986 – 2006. His final years were in Special Operations where he wound up interviewing Saddam Hussein on the night of his capture. In 2009 Mark founded the healthcare company, Align MD which now serves 34 hospitals in 8 states and employs over 600 medical providers. He has served Tennessee's Senate District 22 since 2013.



Aaron Levine, Legal and Regulatory Analyst

National Renewable Energy Laboratory

Aaron Levine is currently evaluating transportation logistical and infrastructure requirements for large wind components and has lead a team that conducts research on federal and state regulations for renewable energy technologies and transmission. He has a B.A. in Political Science from University of Kansas, a J.D. from University of Kansas School of Law, and a LL.M in Environmental and Natural Resource Law from University of Denver.



Alain L. Kornhauser, Director / Professor

Princeton University, Transportation Research Program

Dr. Kornhauser's research interests include Optimization of Flows in Stochastic Networks, Computer Vision and Automatic Control of Vehicles, and Design of Decision Support Systems for Individuals. He received PhD and MA degrees in Aerospace and Mechanical Sciences from Princeton University, and MS and BS degrees in Aerospace Engineering from Pennsylvania State University.

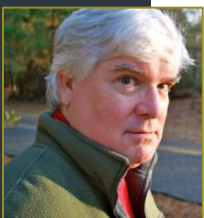
Moderators



Stanley E. Young, Advanced Transportation and Urban Scientist

National Renewable Energy Laboratory

Dr. Young is currently focused on connected and automated vehicle technology and its impact on the nation's future energy budget and greenhouse gas emissions. Prior to joining NREL, he was involved with the I-95 Vehicle Probe Project (VPP), arterial performance assessment, and Bluetooth re-identification traffic monitoring at the University of Maryland's Center for Advanced Transportation Technology. In 2009, he co-founded Traffax Inc, a university start-up to accelerate the commercialization of Bluetooth re-identification technology.



Burney Simpson, Editor

Driverless Transportation

Burney Simpson is the editor of *Driverless Transportation*, the premier site for the automated, autonomous, and connected vehicle industry. Simpson is an award-winning business reporter and investigative journalist who has covered state government, Chicago's City Hall, and the politics of race.



Richard Bishop, Owner

Bishop Consulting

Richard Bishop, author of *Intelligent Vehicle Technology and Trends*, is the owner of Bishop Consulting, a company that focuses on understanding complex intelligent transportation systems in order to conduct better research and advise better investments, and cultivating strategic and effective partnerships. Before starting Bishop Consulting, he was the Program Manager for Vehicle-Highway Automation at the Federal Highway Administration.



Workshop Agenda

Morning Session

Opening Remarks

9:00 AM – 9:30 AM

Welcome

- Overview of the National Transportation Center - *Lei Zhang*
- Vision of Automated Vehicles Within the I-95 Corridor - *Trish Hendren*
- Administrative Items - *Stan Young*

First Panel

9:30 AM – 10:45 AM

Framing the Basics (*Moderated by Stan Young*)

- Layering the legal foundation for self-driving vehicles ... on our way to consistent or chaotic collection of state legislation? – *Bryant Walker Smith*
- A look at California's attempt at automated vehicle regulation – the good, the bad, and the ugly – *Robert Peterson*
- *Establishing policy priorities: Minnesota's AV legislation for people with disabilities* – *Frank Douma*

Break 10:45 AM – 11:00 AM

Second Panel

11:00 AM – 12:15 PM

Influences on Policy Decisions (*Moderated by Richard Bishop*)

- What happens in self-driving vehicles ... goes where?, Who really owns the data? – *Dorothy Glancy*
- 50 separate approaches or one unified approach – *James Anderson*
- *Take two insurance policies, and call me in the morning* – *Kelsey Brunette*

Lunch 12:15 PM – 1:15 PM

Afternoon Session

State Legislator Forum & Panel Discussions

1:15 PM – 2:30 PM

Real Issues, Real Initiatives (*Moderated by Burney Simpson*)

- Delegate Glenn Davis – *Virginia House of Delegates, 84th District*
- Delegate David Fraser-Hidalgo – *Maryland General Assembly, 15th District*
- State Senator Mark Green – *Tennessee General Assembly, 22nd District*

Final Panel

2:30 PM – 3:30 PM

Final Panel & Closing Remarks (*Moderated by Stan Young*)

- Vehicle energy and green house gas, an opportunity to merge energy and transportation policy – *Aaron Levine*
- Closing remarks and summary – *Alain Kornhauser*