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.

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

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

Lei Zhang, Herbert Rabin Distinguished Professor and Director
National Transportation Center
Dr. Lei Zhang is a member of four TRB Committees, 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 as 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.

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.
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.

Councilmember Mary M. Cheh  
**Council of the District of Columbia, Ward 3**

Councilmember Mary M. Cheh has served on the Council of the District of Columbia since 2007 and is currently the Chair of the Committee on Transportation & the Environment. A tenured constitutional law and criminal procedure professor at the George Washington University Law School, Cheh has championed legislation to protect the environment, improve the health of District residents, and fought for good government.

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).

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.

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**

Mr. Simpson has covered banking, state government, and Chicago's City Hall where his reporting on race and business received national awards. He is the editor of Driverless Transportation, the premier publication for the autonomous, connected, and self-driving vehicle industry.

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 AM – 1:15 PM

Afternoon Session

Legislator Forum & Panel Discussions
1:15 PM – 2:30 PM
Real Issues, Real Initiatives (Moderated by Burney Simpson)
- Councilmember Mary M. Cheh – Council of the District of Columbia, Ward 3
- 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
Important Note

Due to the UMD spring commencement which begins at 7:00 PM on May 18, we would recommend that you avoid US-1. If you are driving, consider approaching the campus from the east via MD201/Kenilworth to Paint Branch Parkway or from the south. Metro is also very convenient and the University offers a free shuttle which runs about every 10 minutes.

Useful Information

Workshop Hours and Location
9:00 AM – 3:30 PM
Robert H. Smith School of Business
Howard Frank Auditorium
7621 Mowatt Lane
College Park, MD 20742

Contact Information
Masoud Hamedi, PhD - Senior Research Scientist
Center for Advanced Transportation Technology
University of Maryland, College Park
Phone: (240) 487-9323
Email: Masoud@umd.edu

Public Transportation

Metro Rail Station
College Park Station on the Green / Yellow Line

Metro Bus and Rail Information
http://www.wmata.com/

UMD Metro Shuttle Map and Schedule (Route #104)
This shuttle is free and open to all riders. Look for UMD bus #104.
http://www.transportation.umd.edu/shuttle/schedules/current/104_CPM.pdf

Parking
Visitor parking may be found in the Mowatt Visitor Lot or on the top level of Mowatt Lane Parking Garage. Hours of Operation are 7:00 am to Midnight daily. Parking Rates Monday-Friday are $3 per hour with a $15 Maximum Daily Rate.
Directions to Parking: http://www.rhsmith.umd.edu/about-us/directions-smith
Link to Additional Parking Information:
http://www.transportation.umd.edu/parking/maps/map_campus.pdf

Helpful Links

Workshop Web Link

UMD Campus Map
http://maps.umd.edu/map/
General Information

Map

Smith School of Business

Closest UM Metro Shuttle Stop

Route for UM Shuttle #104