

# Maryland Connected & Automated Vehicles Working Group

Monday, December 14, 2020

1:00 pm – 3:00 pm

Virtual Meeting Link: <https://attendee.gotowebinar.com/register/6138704668987710224>

AGENDA	
1:00 p.m.	<b>Call Meeting to Order, Logistics, &amp; Opening Remarks</b> <ul style="list-style-type: none"><li>○ <b>Administrator Chrissy Nizer</b>, Maryland Department of Transportation (MDOT) Motor Vehicle Administration, Co-Chair</li><li>○ <b>Executive Director Jim Ports</b>, Maryland Transportation Authority, Co-Chair</li></ul>
1:10 p.m.	<b>Updates: CAV Subgroups and Maryland HAV Testing Companies</b> <ul style="list-style-type: none"><li>○ <b>Rasheed Walford</b>, Local Motors, LLC</li><li>○ <b>Bryan Brillhart</b>, Robotic Research</li><li>○ <b>Anuja Sonalker</b>, STEER Tech</li></ul> Moderator: <b>Nanette Schieke</b> , MDOT Motor Vehicle Administration
1:30 p.m.	<b>Maryland CAV Strategic Framework</b> <ul style="list-style-type: none"><li>○ <b>Administrator Chrissy Nizer</b>, Maryland Department of Transportation Motor Vehicle Administration, Co-Chair</li></ul>
1:50 p.m.	Poll
1:55 p.m.	<b>Virtual Demo of Maryland CAV University Programs</b>
2:05 p.m.	<b>Panel Discussion: Assuredness in Autonomy</b> <p>The promise of automated vehicles has the potential to improve the human condition in untold ways, but there are major considerations for introducing the technology. This panel provides perspectives from industry, government, and academia to discuss the importance of trust, the challenges of equity, and the importance of paying attention to human factors.</p> <ul style="list-style-type: none"><li>○ <b>Ben Shneiderman</b>, University of Maryland</li><li>○ <b>Edward Griffor</b>, National Institute of Standards &amp; Technology (NIST)</li><li>○ <b>Frank Fratrick</b>, Edge Case Research</li></ul> Moderator: <b>Cara LaPointe</b> , Johns Hopkins University Institute for Assured Autonomy
2:55 p.m.	<b>Brief Status: FCC Actions on Realignment of Safety Spectrum</b> <ul style="list-style-type: none"><li>○ <b>Administrator Chrissy Nizer</b>, Maryland Department of Transportation Motor Vehicle Administration, Co-Chair</li></ul>
3:00 pm	<b>Closing:</b> Next meeting – Monday, April 20, 2021 @ 1:00pm

## **SPEAKER INFO:**

**Bryan Brillhart**, Senior Program Manager, Robotic Research ([bbrilhart@roboticresearch.com](mailto:bbrilhart@roboticresearch.com))

Bryan has a proven track record of leadership and over 15 years of unmanned vehicle experience across air and ground vehicles. He is responsible for several programs on both the commercial and defense sides of the Robotic Research business and leads the New Flyer Proof-of-Concept Program, developing the first autonomous bus in North America. Brillhart was previously a lead software engineer on the ANS, SOURCE, and SUSI programs where he was considered a subject matter expert in navigation and in the development and integration of drive-by-wire systems. Combined with his technical expertise, Brillhart has a proven history of team management and has successfully led teams responsible for developing, producing, and deploying ground control stations for a variety of UAV platforms. He earned a Bachelor of Science in Mechanical Engineering from Johns Hopkins University.

**Frank Fratrick**, Lead Engineer, Edge Case Research ([ffratrick@edge-case-research.com](mailto:ffratrick@edge-case-research.com))

During 15 years as a government civilian at the US Army Aberdeen Test Center, Frank performed and managed software test and analysis according to MIL-STD 882E on a number of military systems. This included hands-on safety testing for manned and unmanned vehicles, weaponized robotics, guided projectiles, and remote weapon stations. Frank experienced the consequences of unexpected failures in a variety of complex vehicle and weapon systems. He is committed to ensuring test safety for developing systems and operational safety for fielded systems via rigorous safety engineering processes built into all systems engineering phases. Frank holds a B.S in Electrical Engineering from Penn State and M.S. in Systems Engineering from Johns Hopkins.

**Ed Griffor**, PhD, Associate Director for Cyber-Physical Systems of the Smart Grid and Cyber-Physical Systems Program Office, National Institute of Standards & Technology ([edward.griffor@nist.gov](mailto:edward.griffor@nist.gov))

Dr. Edward Griffor was, until July 2015 when he joined NIST, one of the three original Walter P. Chrysler Technical Fellows, one of the highest technical positions in industry and one that represents technical excellence throughout global industry, from the automotive to the aerospace, medical and computing industries. He is the Chairman of the Chrysler Technology Council and of The MIT Alliance, a professional association of scientists, engineers, and business experts trained at the Massachusetts Institute of Technology.

**Cara LaPointe**, PhD, Co-Director of the Johns Hopkins Institute for Assured Autonomy, Assured Intelligent Systems Program Manager, Johns Hopkins Applied Physics Laboratory ([Cara.LaPointe@jhuapl.edu](mailto:Cara.LaPointe@jhuapl.edu))

Dr. Cara LaPointe is a futurist who focuses on the intersection of technology, policy, ethics, and leadership. She is the Co-Director of the Johns Hopkins Institute for Assured Autonomy which works to ensure that autonomous systems are safe, secure, and trustworthy as they are increasingly integrated into every aspect of our lives. During more than two decades in the United States Navy, Dr. LaPointe held numerous roles, including in the areas of autonomous systems and unmanned vehicle technology integration. At the Deep Submergence Lab of the Woods Hole Oceanographic Institution, she conducted research in underwater autonomy and robotics, developing sensor fusion algorithms for deep-ocean autonomous underwater vehicle navigation. Dr. LaPointe is a patented engineer, a White House Fellow, and a French American Foundation Young Leader. She served for two Presidents as the Interim Director of the President's Commission on White House Fellowships.

**Ben Shneiderman**, Professor of Computer Science, University of Maryland ([bshneide@umd.edu](mailto:bshneide@umd.edu))

Ben is a Distinguished University Professor in the Department of Computer Science, Founding Director (1983-2000) of the Human-Computer Interaction Laboratory, and Member of the Institute for Advanced Computer Studies at the University of Maryland at College Park. Shneiderman has been elected to the National Academy of Engineering, in recognition for his pioneering contributions to human-computer interaction and information visualization. He is currently working on a book on Human-Centered AI <https://hcil.umd.edu/human-centered-ai-a-second-copernican-revolution/>

**Anuja Sonalker**, Ph.D, Founder & CEO, STEER Tech ([anuja@steer-tech.com](mailto:anuja@steer-tech.com))

Anuja Sonalker is the founder and CEO of autonomous vehicle software company, STEER Tech and as such, was named one of 2020's Top 100 Leading Women in the North American Automotive Industry by Automotive News. She is currently the Vice-Chair of the SAE Vehicle Cybersecurity Systems Engineering Committee and Co-Chair of ISO 21434: Automotive Cybersecurity Framework. Dr. Sonalker also serves on the Board of Partners for Automated Vehicle Education (PAVE), Board of Visitors for the Clark School of Engineering at the University of Maryland, and the Board of Directors of the Economic Development Authority of Howard County, Maryland.

**Rasheed L. Walford**, East District, Business Development & Sales Manager, Local Motors ([rwalford@local-motors.com](mailto:rwalford@local-motors.com))

Rasheed Walford is a powerful business driver whose entrepreneurial instincts and clarity of vision has carried multiple companies through rapid and continuous growth. Rasheed remains a critical contributor to the development and deployment of *Olli*, and works diligently in collaborative efforts with key stakeholders to raise funds, rethink policy and create innovative processes that are bringing *Olli* to a myriad of environments throughout the United States and Canada. Before his tenure at Local Motors, Rasheed utilized his business/financial management background for the Federal Emergency Management Agency, Department of Justice and NGO's. Rasheed has achieved outstanding personal and team results by coaching others to perform above and beyond expectations while keeping a team attitude intact.