

You Are Invited
Tuesday, 24 October 2017
Congressional Robotics Caucus Luncheon Briefing

Noon – 1:30pm

***Connected & Autonomous Vehicles: Incorporating AVs into
our Transportation Infrastructure***

**2167 Rayburn House Office Building
House Transportation & Infrastructure Hearing Room**

Hosted by
Robotics Caucus Advisory Committee
In conjunction with the Congressional Robotics Caucus

Robotics Caucus Co-Chairs
Congressman Rob Woodall
Congressman Mike Doyle

You are cordially invited to a luncheon briefing to discuss the anticipated arrival and integration of automated vehicles (AVs) into our Nation's transportation infrastructure. Implementing the use of AVs is not simply a matter of fine-tuning the technology, it also requires adjustments to our legal and regulatory framework. To fully realize the promising benefits of AVs, we must understand the challenges and opportunities facing AV integration. Our panel of experts will offer insight into how AVs are expected to improve safety and solve transportation challenges, while discussing regulatory hurdles and how public policies can play a role in ensuring that these advanced technologies can unlock the economic value they promise.

12PM - OPENING REMARKS

Congressman Rob Woodall and Congressman Mike Doyle

SPEAKERS

Moderator – Dr. Said Jahanmir, ASME President Nominee

Chuck Thorpe Ph.D. Clarkson University, Dean of the School of Arts & Sciences and ASME Robotics Public Policy Task Force, Chair – Thorpe has a distinguished record of groundbreaking research in robotics. Prior to joining Clarkson, he served as a White House Fellow and assistant director for advanced manufacturing and robotics in the Office of Science and Technology Policy of the Executive Office of the President. From 2004 to 2010, Thorpe was the founding dean and CEO of Carnegie Mellon University's branch campus in Doha, Qatar, offering Carnegie Mellon undergraduate degrees in computer science, business administration and information systems and responsible for setting up the new campus. Before heading overseas, Thorpe served as director of the Robotics Institute at Carnegie Mellon. His research focused on the development of outdoor robotic vehicles, and Thorpe and his Navlab research group built a series of robotic cars, trucks and buses for military and civilian research. Thorpe received his Ph.D. in computer science from Carnegie Mellon, and is one of the university's first alumni to pursue a career in robotics; and a bachelor of arts degree in natural science from North Park College in

Chicago. Thorpe is a Fellow of the Institute of Electrical and Electronic Engineers (IEEE), the American Association for Artificial Intelligence (AAAI), and the IEEE Robotics Society.

Constantine Samaras, Assistant Professor, Civil and Environmental Engineering, Carnegie Mellon University – Samaras directs the Center for Engineering and Resilience for Climate Adaptation and his research spans energy, climate change, automation, and defense analysis. He analyzes how energy technology and infrastructure system designs affect energy use and national security, resiliency to climate change impacts, and life cycle environmental externalities. Samaras is also an Adjunct Senior Researcher at the RAND Corporation and a professor at the Pardee RAND Graduate School. He served on a National Academies Committee evaluating the Department of Energy's advanced transportation energy research portfolio, serves on the Transportation Research Board's Energy Committee and the Alternative Transportation Fuels and Technologies Committee. He has published numerous studies examining electric and autonomous vehicles, renewable electricity, transitions in the energy sector, conventional and low-carbon fuels, and was one of the Lead Author contributors to the *Global Energy Assessment*. From 1999 to 2004 Samaras was an engineer working on several infrastructure megaprojects in New York, including the extension of the Number 7 Subway Line in Manhattan, and the rebuilding of the subway line underneath the World Trade Center after the attacks of September 11, 2001. Samaras received a joint PhD in Civil and Environmental Engineering and Engineering and Public Policy and from Carnegie Mellon, a MPA in Public Policy from the Wagner Graduate School of Public Service at New York University, and a BS in Civil Engineering from Bucknell University.

Joe Jarzombek, Global manager, Synopsys Software Integrity Group; Synopsys, Inc, a company specializing in Electronic Design Automation – Jarzombek, a retired US Air Force Lt Colonel, leads Synopsys' efforts to enhance the Software Integrity Platform. Focused on software security, safety and quality, he works with industry consortia, such as Underwriters Labs' Cybersecurity Assurance Program, standards bodies, and government agencies to address software assurance. Prior to joining Synopsys, he served as the Director for Software & Supply Chain Assurance in the US Department of Homeland Security Office of Cybersecurity and Communications; and the US Department of Defense as the Deputy Director for Information Assurance and the Director for Software Intensive Systems in the Office of Acquisition, Technology and Logistics. Jarzombek is a Certified Secure Software Lifecycle Professional (CSSLP). He received an MS in Computer Information Systems from the Air Force Institute of Technology, and a BA in Computer Science and BBA in Data Processing and Analysis from the University of Texas -Austin.

Finch Fulton, Deputy Assistant Secretary for Transportation Policy – Fulton most recently served on the Transportation and Infrastructure Policy team of the Presidential Transition Team. Prior to that, he served on the staff of Congressman Jim McCrery and Congressman John Fleming, and on the staff of Senator Jeff Sessions. He received a BA from the University of Alabama and an MBA from Johns Hopkins University.

RSVP to: b.concepcion@ieee.org

This is a widely attended event and open to all Members and staff.

The event is sponsored by ASME, IEEE-USA, and Carnegie Mellon University

The goal of the Congressional Robotics Caucus is to inform the Congress and the public about the importance of robotics to our nation's economic growth, defense, safety, global competitiveness, and quality of life. If you would like more information on the Congressional Robotics Caucus, or you would like to join the Caucus, please contact either Alex Poirot in Congressman Woodall's office at Alex.Poirot@mail.house.gov, or Phil Murphy in Congressman Doyle's office at Philip.Murphy@mail.house.gov.