

**ARTS22 Breakout Session Title:**

350-Beyond the Drivetrain: Achieving Efficiency in CAVs Through Technologies and Regulations

**Session Contact/Organizers:**

- Prof. Dimitris Assanis, Assistant Professor of Mechanical Engineering, SUNY - Stony Brook University
- Dr. Avi Mersky, Senior Researcher, Transportation Program, American Council for an Energy-Efficient Economy

**TRB Sponsor/Partner Committees (if any):**

AMS30: TRB Standing Committee on Transportation Energy

AMS30(3): TRB Subcommittee on Energy and Demand Implications of Connected & Automated Vehicles

**Session Description**

This year our breakout session will focus on understanding the technical and regulatory opportunities to achieve improvements in energy efficiency and a reduction in GHG emissions for automated vehicles. We will focus on beyond the drivetrain enabling technologies and optimization for energy minimization of automated vehicles.

Additionally, we will examine new changes in regulations and policy to promote AV efficiency and decrease energy usage. The session will conclude with an open panel discussion of the speakers to amalgamate the thoughts of industry groups, regulators, academics, and public interest groups.

**Agenda**

Dr. Chris Atkinson, Deputy Director for Advanced Research, US Department of Transportation & Director of Smart Mobility, The Ohio State University (45 min)

Dr. Marina Sofos, Program Director, ARPA-E NEXTCAR II, US Department of Energy (30 min)

Dr. Avi Mersky, Senior Researcher, Transportation, American Council for Energy-Efficient Economy (30 min)

Break (15 min)

Mr. Dave Rubin, Head of Policy Research, Government Affairs, Cruise LLC (30 min)

Center for Environmental Research and Technology (CE-CERT), University of California, Riverside (30 min)

Panel Q&A (30 min)