



Meeting of the  
President's Council of Advisors on Science and Technology (PCAST)  
March 30, 2023

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## Invited Speaker Biographies

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### **ROBERT C. HAMPSHIRE, PHD**

Dr. Robert C. Hampshire serves as the Deputy Assistant Secretary for Research and Technology and Chief Science Officer. Hampshire was previously a faculty member at the Gerald R. Ford School of Public Policy at the University of Michigan. He was also a researcher in both the U-M Transportation Research Institute (UMTRI) and Michigan Institute for Data Science (MIDAS), and an affiliated faculty member in the Department of Industrial and Operations Engineering (IOE).

He has also been a faculty member at Carnegie Mellon University and a visiting professor at Massachusetts Institute of Technology. Hampshire received a PhD in operations research and financial engineering from Princeton University.

### **CHRIS ATKINSON, ScD**

Dr. Chris Atkinson is the Director of the Smart Mobility Initiative and professor of mechanical and aerospace engineering at Ohio State University with a focus on next-generation transportation technologies. From 2014 to 2020 he served as Program Director at the Advanced Research Projects Agency-Energy (ARPA-E) of the US Department of Energy in Washington DC. At ARPA-E he initiated and managed external research and development projects in the advanced clean energy area totaling over \$120 million, including NEXTCAR, a program using connectivity and automation to improve vehicle energy efficiency.

He is the founder of Atkinson LLC, a consultancy in advanced powertrain and vehicle technology that has developed methods in rapid transient calibration and virtual sensing. From 2009 to 2011 he was the Director of the West Virginia University Center for Alternative Fuels, Engines and Emissions, in addition to holding the rank of tenured professor in mechanical and aerospace engineering. He has authored over 70 peer-reviewed publications (with over 2400 citations) and holds two US and international patents. He is a Fellow of SAE (and a recipient of the SAE Buckendale Award), and a Fellow of ASME, with extensive experience in engines, emissions, alternative fuels, engine control and vehicle electrification and hybridization. He received the degree of Doctor of Science in Mechanical Engineering (ScD) from MIT, MS in Mechanical Engineering from West Virginia University, and BS in Chemical Engineering from the University of Natal, South Africa.

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