Title: Connected and Automated Vehicles: Opportunities and Challenges

Abstract: With increasing attention focused on connected and automated vehicles, this presentation will focus on the opportunities and challenges for the development and deployment of such systems. CAVs represent an opportunity for innovation in transportation system planning, design, operation and maintenance and toward achieving safety, mobility and environmental goals. Among challenges to implementation are consumer adoption and the market for such technologies. We will present the use of modeling and simulation techniques to help us understand the impacts of CAVs and overcome some of the challenges.

Bio...
Dr. Asad J. Khattak is Beaman Professor of Civil & Environmental Engineering at University of Tennessee, Knoxville, where he teaches and conducts research in transportation. During 2006-2013, he was Frank Batten endowed chair Professor of Civil Engineering at Old Dominion University where he developed and directed ODU's transportation research initiatives and educational programs. Dr. Khattak's research focuses on various types of innovations related to 1) intelligent transportation systems (their planning/operation and behavioral impacts), 2) transportation safety, and 3) sustainable transportation. Dr. Khattak received his Masters and Ph.D. degrees in Civil Engineering from Northwestern University in 1988 and 1991, respectively. Dr. Khattak has authored/co-authored 109 scholarly journal articles and 54 technical reports to research sponsors. As a principal- or co-investigator, he has successfully obtained 54 sponsored research and educational projects totaling more than $9.0 million.

Dr. Jackeline Rios-Torres, received her B.S. in electronic engineering from the Universidad del Valle, Colombia, in 2008 and the Ph.D. in Automotive Engineering from Clemson University in 2015. She is currently a research coordinator at the University of Tennessee, Knoxville, TN. Her research is focused on intelligent transportation, eco-driving assistant systems and modeling and energy management control of HEVs/PHEVs. Jackeline is a GATE fellow at the Center for Research and Education in Sustainable Vehicle Systems at CU-ICAR. She has also been a recipient of the Southern Automotive Women Forum scholarship and the Smith fellowship at CU-ICAR.