

Technology Takes the Wheel

2018 BI-MONTHLY SEMINARS ON AUTONOMOUS VEHICLES

Presented by
The University of Toledo College of Engineering and AAA Northwest Ohio



COLLEGE OF ENGINEERING
THE UNIVERSITY OF TOLEDO



EN 799



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2018 BI-MONTHLY SEMINARS ON AUTONOMOUS VEHICLES

Transportation Infrastructure and Autonomous Vehicles

Friday, Sept. 21, 2018
9–11 a.m.

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Welcome and Overview

T. Michael Toole, PhD, PE, Dean, The University of Toledo College of Engineering

Introduction of Guest Speakers and Panelists

Lissa Guyton, Reporter, 13abc

Featured Speakers

James A. Barna, PE, Executive Director, DriveOhio

Randy Cole, Executive Director, Ohio Turnpike and Infrastructure Commission

Zach Huhn, CEO, Venture Smarter

Panel Discussion

Moderator: **Lissa Guyton**

Eddie Chou, PhD, PE, The University of Toledo College of Engineering

Laurie L. Adams, PE, PTOE, PTP, Managing Principal and Director of Traffic / Safety at DGL Consulting Engineers, LLC

Jim Barna

Randy Cole

Zach Huhn

Closing Remarks

Edgar Avila, President and Chief Executive Officer, AAA Northwest Ohio

James A. Barna was recently appointed the executive director for DriveOhio, where he oversees the state's strategic planning on the implementation of smart mobility technologies. Barna is working to advance smart mobility in Ohio by developing partnerships and creating a one-stop shop for those looking to develop, test and deploy advanced mobility solutions. Barna served for seven years as assistant director and chief engineer at the Ohio Department of Transportation (ODOT) where he oversaw all highway divisions. He also oversaw ODOT's policy, research and deployment of connected vehicle technologies. Barna earned his BS in civil engineering in 1990 from Ohio State University.

Randy Cole is executive director of the Ohio Turnpike and Infrastructure Commission. He previously served as controlling board president and policy advisor to the Office of Budget and Management (OBM) in the administration of Gov. John Kasich. Cole is on the advisory board of DriveOhio, a multi-agency partnership focused on bringing connected and autonomous vehicle transportation technologies to Ohio. His commitment to using technology to transform government operations led Government Technology magazine to name Cole one of the nation's Top 25 Doers, Dreamers and Drivers of 2013. He also serves on the board of directors of the International Bridge, Tunnel and Turnpike Association. You can follow him on Twitter @OHTurnpikeGuy.

Zack Huhn is founder and CEO of Venture Smarter, a company dedicated to streamlining the development of smart cities, regions and industries. He also is on the board of Regional Smart Cities Initiatives, an advisor to the U.S. House of Representatives' Smart Cities Caucus, and on the leadership team for the NIST GCTC Wireless Supercluster. He is chairman of IEEE's Smart Cities Standards Committee. In 2016 Huhn helped form and launch Smart Cincy, a public-private partnership helping to make Cincinnati and the greater Cincinnati region a better place to live, work and visit by implementing smart policies, strategies and technologies. Smart Cincy was the first Smart Regions effort in the U.S. and has sprouted several projects and working groups focused on connectivity, mobility, safety, security and sustainability.

Panelists

Eddie Chou, PhD, PE, is a professor of civil and environmental engineering at The University of Toledo and director of the Transportation Systems Research Lab. He has more than 30 years of experience as a researcher in the transportation engineering field. His current research interests include transportation asset management, smart transportation systems and applications of analytical tools, including multi-objective optimization, traffic simulation and artificial intelligence to solve transportation problems. Dr. Chou has conducted more than \$7 million of externally funded research as a principal investigator of more than 40 research projects at The University of Toledo. His research has been funded by the U.S. Department of Transportation, Ohio Department of Transportation and other transportation agencies. He and his students have published their work in top civil engineering journals, including the journals of the *American Society of Civil Engineers* and the *Transportation Research Board*. Dr. Chou's research is recognized both nationally and internationally.

Laurie L. Adams, PE, PTOE, PTP, joined DGL Consulting Engineers, LLC in 1986, was elected principal in 1999 and became managing principal in 2017. She leads DGL's traffic/safety team and has unique skills in pedestrian movement analysis within busy urban corridors, as well as school walking and biking routes. Adams is involved with all DGL traffic/safety projects, including signal timing, safety studies and safe routes to school statewide contracts. She holds a BSCE from The University of Toledo and is a professional engineer in Ohio and Michigan. She is a certified professional traffic operations engineer and a professional transportation planner. Adams is current president of UT's Engineering Alumni Affiliate and serves on the College of Engineering Development Committee and Civil Engineering Advisory Board. In 2015, Laurie was selected as UT's Civil Engineering Outstanding Alumna. She sits on numerous boards and committees, and participates in several professional organizations.