

## Track E: Rail &amp; Public Transit

Monday, June 10, 2019 (Room: TBA)

Track Chair: Walter Kulyk, FTA (*Retd.*)

1:30 to 3:00 PM

**2030: A Look at the Future of Rail and Public Transit**

Moderator: TBA

- **Expanding Development Opportunities Due to New Mobility Options**, Shannon McDonald, *Southern Illinois University*
- **Some 21st Century Transportation Solutions**, Peter Muller, *Advanced Transit Association*
- **Integrated Communications of Rail with Other Transportation Modes : Is this the Future?**, Dimitris Rizos & Yu Qian, *University of South Carolina*
- **Mobility Trends, Automation and the Future of Transit**, Matthew Lesh, *Comet Mobility*
- **Transit Systems and the Public Realm: A New Development Paradigm**, Nicolas Ryan, *Perkins Eastman*

3:30 to 5:00 PM

**New Energy for Rail and Public Transit**

Moderator: TBA

- **Getting to Scale with Battery Electric Bus Infrastructure**, Fred Silver and Elliott Popel, *CALSTART*
- **Zero Emission Buses: State of the Industry and Deployment Best Practices**, Dan Raudebaugh, *Center for Transportation and the Environment*
- **Use of Hydrogen and Related Infrastructure for Rail Operations**, Stan Thompson, *Mooreville Hydrail Initiative*
- **New Energy for Resiliency in Rail and Public Transportation**, Shannon McDonald, *Southern Illinois University*
- **Challenges and Progress in Transitioning to Zero Emission Vehicles in Public Transport**, Cliff Henke, *WSP USA*

## Track E: Rail &amp; Public Transit

Tuesday, June 11, 2019 (Room: TBA)

Track Chair: Walter Kulyk, FTA (*Retd.*)

1:30 to 3:00 PM

**Big Data and Analytics for Rail and Public Transit**

Moderator: TBA

- **Data Analytics in Urban Transportation**, Jinhua Zhao, *MIT*
- **Estimating Impacts of Automated Shuttles**, Gary Hseuh, *New Mobility*
- **Using Data and Dashboards for Bus System Performance Monitoring**, Rachel Lesniak & Wylie Timmerman, *Foursquare*
- **Use of SmarTrip Card Data for Washington's Rail and Bus Systems**, Catherine Vanderwaart, *WMATA*

3:30 to 5:00 PM

**Advanced Communications for Rail and Public Transit**

Moderator: TBA

- **Communications Based Train Control**, Eugene Nishinaga, *Systems Micro Technology*
- **Railroad Track Irregularities: Position Accuracy Assessments Using Low-Cost Sensors on a Hi-Rail Vehicle**, Bhavana Bhardwaj, Raj Bridgelall, Pan Lu, and Neeraj Dhingra, *North Dakota State University*
- **The Benefits and Impacts of Positive Train Control**, Sam Alibrahim, *Federal Railroad Administration*

## Track E: Rail &amp; Public Transit

Wednesday, June 12, 2019 (Room: TBA)

Track Chair: Walter Kulyk, FTA (*Retd.*)

9:15 to 10:45 AM

**Financial & Legal Issues for Rail & Public Transit**

Moderator: TBA

- **Financial, Legal, and Other Constraints on Modernizing New York's MTA System**, Robert Paaswell, *City College of New York*
- **Competitive Challenges for the Major Freight Rail Systems in the United States**, David Clarke, *University of Tennessee*
- **Issues Facing Short Line Railroads in this Country**, Dimitris Rizos, *University of South Carolina*
- **The Promise and Rise of Private Passenger Rail in the U.S.**, Jim Ziglar, Valentin Villalbi, and Igor Dabik, *Deloitte*

11:00 AM to 12:30 PM

**Emerging Civil Engineering Codes & Standards for Rail & Public Transit**

Moderator: TBA

- **ASCE Automated People Mover Standards: Changes Adopted in 2018**, Peter Muller, *Advanced Transit Association*
- **International Standards for Transit**, Koorosh Alyai, *Stantec*