Track E: Rail & 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: Craig Elliott, Lea + Elliott

- 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

3:30 to 5:00 PM

New Energy for Rail and Public Transit

Moderator: Matthew Lesh, Comet Mobility

- Getting to Scale with Battery Electric Bus Infrastructure, Fred Silver and Elliott Popel, CALSTART
- Use of Hydrogen and Related Infrastructure for Rail Operations, Stan Thompson, Mooresville 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

Preliminary Program Draft – Subject to Change
1:30 to 3:00 PM

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

**Moderator:** Nicholas Lownes, *University of Connecticut*

- **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:** Dimitris Rizos, *University of South Carolina*

- **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*
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: Koorosh Olyai, Stantec

- ASCE Automated People Mover Standards: Changes Adopted in 2018, Peter Muller, Advanced Transit Association
- International Standards for Transit, Koorosh Alyai, Stantec
- Advanced Techniques in Railroad Engineering-Railroad Accidents Causes & Innovative Prevention Techniques, Avinash Prasad, NYU Tandon