



## **22<sup>nd</sup> Annual New Jersey Department of Transportation Research Showcase**

### **Preparing Today for a Resilient Tomorrow**

**October 28, 29 & 30 2020**

#### **Day One, October 28, 2020**

9:00 a.m. Introduction and housekeeping - David Maruca, Rutgers CAIT

9:10 a.m. Welcome and Introductory Remarks from Michael Russo, Assistant Commissioner Planning, Multimodal, and Grant Administration, New Jersey Department of Transportation

9:20 a.m. Opening Remarks from Diane Gutierrez-Scaccetti, Commissioner, New Jersey Department of Transportation

9:45 a.m. Valeriya Remezova, Deputy Division Administrator, Federal Highway Administration New Jersey Division Office

9:55 a.m. Keynote Address "ASCE Future World Vision", Gerald E. "Jerry" Buckwalter, Chief Operating and Strategy Officer, American Society of Civil Engineers

11:00 a.m. Break

11:10 a.m. Presentation of 2020 Awards presented by Amanda Gendek, NJDOT Bureau of Research Manager, New Jersey Department of Transportation

- 2020 Outstanding University Student in Transportation Research Award
- 2020 NJDOT Research Implementation Award
- 2020 Best Poster Award
- 2020 NJDOT Build a Better Mousetrap Award

11:20 a.m. Poster Session

11:45 a.m. Q & A and Wrap-up for Day One

## **Day Two, October 29, 2020**

9:00 a.m. Introduction and housekeeping- David Maruca, Rutgers CAIT

9:05 a.m. The Effect of Covid-19 on the Port Industry – Global Trends & Regional Effects, Sotiris Theofanis, PhD and Maria Boile, PhD (Rutgers University)

9:30 a.m. Enhancing Resilience of Bridges through Real-time Deformation Monitoring using UWB Technology Enhanced by Machine Learning, Yiming Liu (Stevens Institute of Technology)

9:55 a.m. Coming Soon: NJDOT Flood Risk Visualization Tool, Jon Carnegie, AICP, PP (Rutgers University)

Break

10:30 a.m. New Jersey's Climate Change Resilience Strategy, Dave Rosenblatt, Assistant Commissioner (New Jersey Department of Environmental Protection)

10:55 a.m. New Brunswick Innovation Hub Smart Mobility Testing Ground Phase 1 Planning, Peter J. Jin, PhD and Ali Maher, PhD (Rutgers University)

11:20 a.m. Improving Resilience, Safety, and Service Life of the Pulaski Skyway, Ruben Gajer, PE (Arora and Associates, PC)

11:45 a.m. Poster Session

Q & A and Wrap-up for Day Two

## **Day Three, October 30, 2020**

9:00 a.m. Introduction and housekeeping- David Maruca, Rutgers CAIT

9:05 a.m. Exploring the Impacts of VMT induced PM2.5 on the Rate of COVID-19 Infection, Yeganeh Hayeri, PhD and Hojat Behrooz (Stevens Institute of Technology)

9:30 a.m. Energy Harvesting from Roadways and Bridges: Opportunities and Challenges, Hao Wang, PhD (Rutgers University)

9:55 a.m. Behavior of Concrete Barriers for Bridges in New Jersey, Anil Agrawal, PhD (The City College of New York)

Break

10:30 a.m. Accelerating Mobility for All: Analysis of Focus Group Feedback from Persons with Disabilities Following Autonomous Vehicle Rides, Cecilia Feeley, PhD and Andrea Lubin (Rutgers University)

10:55 a.m. Development and Evaluation of a Realtime Truck Detection Method Using Deep Learning Based Object Recognition Techniques for Truck Parking Information System, Joyoung Lee, PhD (New Jersey Institute of Technology)

11:20 a.m. Automated Analysis of Surrogate Safety Measures and Non-compliance Behavior of all Road Users at an Intersection, Deep Patel and Mohammad Jalayer, Ph.D (Rowan University)

11:45 a.m. Poster Session

Q & A and Wrap-up for Day Three

**Presentations will be available post-event at  
<https://www.njdottechtransfer.net/>**