2017

Department of Transportation

National University Transportation Center
Mobility21 Consortium Meeting

Tuesday, January 31st

8 am to 2:30 pm

UNIVERSITY OF PENNSYLVANIA

PRECISE

AGENDA

0800 **Continental Breakfast**

0900 **Welcome Address**

0910 **Penn DoT UTC Overview**
Rahul Mangharam & Megan Ryerson *(Penn)*

0915 **Penn DoT UTC Past, Present, and Future**
Dan Lee *(PENN)*

0930 **Transportation Research in Pennsylvania: Traffic21/T-SET/Mobility21**
Stan Caldwell *(Carnegie Mellon University)*

0945 **Keynote: Transportation in Philadelphia:**
The Office of Transportation & Infrastructure Systems, City of Philadelphia

Session 1: Improving Metropolitan Accessibility in the Philadelphia Region

1005 **Setting the framework**
Erick Guerra *(Penn)*

1020 **Local barriers and opportunities**
Mike Carroll *(Streets Department)*

1035 **An economic perspective**
Gilles Duranton *(Wharton)*

1050 **A real estate perspective**
William Martin *(Real Estate Advisor)*

1100 **Coffee Break & Posters/Demo**

Session 2: Infrastructure and Planning for Safe Smart Cities

1115 **Planning Safe and Efficient Multimodal Transportation Infrastructure and Networks**
Megan Ryerson *(Penn)*

1125 **Planning 30th Street Station**
Natalie Shieh *(Amtrak)*

1135 **Road safety: Understanding the Present, Preparing for the Future**
Helen Loeb *(Penn)*

1145 **Towards LA's Strategy for Autonomous Technologies**
Michael Lim *(City of Los Angeles)*

1215 **Lunch**

AGENDA

Session 3: Safety and Mobility in Smart Cities

1220 **Keynote Introduction**
Dean Fritz Steiner *(Penn)*

1220 **Keynote: Regional Transportation Planning in the Delaware Valley**
Barry Seymour *(Delaware Valley Regional Planning Commission)*

1300 **A Driver's License Test for AVs**
Rahul Mangharam *(Penn)*

1310 **Driverless Cars - Liability and Insurance**
Tom Baker *(Penn)*

1320 **Next Generation Stereo Systems for Roadway Awareness**
C J Taylor *(Penn)*

1330 **Multi-Driver Social Behavioral Prediction**
Jianbo Shi *(Penn)*

1350 **Penn UTC: The Year Ahead Discussion**

1415 **End of meeting**

PRECISE

PENN RESEARCH IN EMBEDDED COMPUTING AND INTEGRATED SYSTEMS ENGINEERING

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Mobility21 Consortium Meeting

The University of Pennsylvania has been the home for a DoT National and a Tier-1 UTC for the past several years. This month we were awarded a $14MM National University Transportation Center for Improving Mobility called Mobility 21 which will investigate technologies, policies, incentives and training programs for improving the mobility of people and goods in the 21st century efficiently and safely. Mobility 21 will leverage connected and automated vehicle technologies, smart city technologies like adaptive traffic signals, real-time traveler information services, preventive maintenance techniques, predictive analytics and alternate modes of transportation like bicycles. The primary thrusts of Mobility 21 will be (a) Smart City Technologies, (b) Multi-Modal Connections, (c) Assistive Technologies for People with Disabilities, (d) Data Modeling and Analytical Tools, (e) Novel Modes of Transport, (f) Regional Planning, and (g) Improved Transportation Access to Disadvantaged Neighborhoods.

The Mobility 21 team is comprised of Carnegie Mellon University (lead), University of Pennsylvania, Ohio State University and the Community College of Allegheny County. Tackling the multi-faceted nature of Mobility 21 objectives requires coordinated technology and policy activities, and is supported by researchers spanning multiple disciplines: electrical and computer engineering, civil engineering, transportation engineering, computer science and robotics, public policy, and big data analytics. The Mobility 21 team places strong emphasis on technology transfer to transit agencies and real-world deployments. A Mobility 21 Partner Consortium has more than 70 members from the public, non-profit and private sectors including PennDOT, and the Cities of Pittsburgh and Philadelphia. Mobility 21 activities are supported by platforms and testbeds that include connected and automated vehicles (CAVs), V2X infrastructure, fleet vehicles, adaptive traffic signals and a mobility analytics center.

Penn Engineering