

PLENARY SESSION: KEYNOTE SPEECHES

Transportation Challenges and Solutions for the 21st Century

Mr. Paul Steinman, P.E., Florida Department of Transportation District 7 Secretary

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Traffic Congestion Problems and Countermeasures in Beijing

Dr. Yanyan Chen, Ph.D., Professor and Executive Director, Transport Research Center, Beijing University of Technology

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Bring Mobility to Contra Costa Transportation Authority

Mr. Randell Iwasaki, Executive Director, Contra Costa Transportation Authority, California

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TRACK 1-A: PLANNING FOR LIVABILITY/SUSTAINABILITY

A Protected Bikeway (aka Cycle Track) “Before” and 12-Month “After” Study in City of Long Beach

Min Zhou, Vice President, KOA Corporation

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A Two-Stage Approach towards Telecommute Estimation – Frequency and Adoption

*Hamidreza Asgari, Research Assistant, Florida International University
Xia Jin, Assistant Professor, Florida International University*

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TRACK 1-B: TRAFFIC MANAGEMENT

Simulation Analysis for Ramp Metering Feasibility Study: Case Study on I-95 in South Florida

Wanyang Wu, Research Associate, Florida International University

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Xia Jin, Assistant Professor, Florida International University

Albert Gan, Professor, Florida International University

The Establishment of the Principles of Traffic Control Devices for Mixed Traffic Flow with Numerous Motorcycles

Ming-Heng Wang, Assistant Professor, Kainan University

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Wu-Cheng (Wilson) Chen, Dean and Professor, Kainan University

Cheng-Chen Kou, Assistant Professor, Kainan University

Development of a Data-Based Intelligent Transportation Systems Evaluation Tool

Yan Xiao, Research Associate, Florida International University

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Mohammed Hadi, Associate Professor, Florida International University

Halit Ozen, Research Associate, Florida International University

Short-range Wireless Systems for Vehicle-to-Infrastructure Communications

Fengxiang Qiao, Associate Professor, Texas Southern University

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Xiaobing Wang, Research Assistant, Texas Southern University

Lei Yu, Professor and Dean, Texas Southern University

Information Sharing In Traffic Incident Management

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Qian Ouyang, Graduate Student, University of

Southern California

TRACK 2-A: TRANSPORTATION PLANNING AND LAND USE

Impacts of Transportation Costs on Real Estate Values in Cities of Texas

Fengxiang Qiao, Associate Professor, Texas Southern University

Ling Liu, Graduate Research Assistant, Texas Southern University

Wen Long, Graduate Research Assistant, University of Houston

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Exploring Impact of Bus Rapid Transit Investments on Land Use Patterns using UrbanSim

Zhenyu Wang, Research Specialist, CUTR, University of South Florida

Chanyoung Lee, Senior Research Associate, CUTR, University of South Florida

Pei-Sung Lin, Program Director, CUTR, University of South Florida

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Developing a Parcel-level Travel Demand Model to Improve Annual Average Daily Traffic (AADT) Estimation for Local Roads

Tao Wang, Research Associate, Florida International University

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TRACK 2-B: TRAFFIC SIGNAL DESIGN

InSync: An Innovative Adaptive System to Optimize Traffic Signal Operation

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*Feng "Jason" Xu, Associate Transportation Engineer,
KOA Corporation*

**Corridor Synchronization Performance Index (CSPI)
for Orange County,
California**

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*Jimmy Lin, CEO & President, KOA Corporation
Min Zhou, Vice President, KOA Corporation*

**An Investigation of the Relationship between
Mobility and Environmental
Externalities at Signalized Intersections**

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*Rui Guo, Graduate Research Assistant, University of
South Florida
Yu Zhang, Assistant Professor, University of South
Florida*

**Modeling Pre-preemption Traffic Signals at Railroad
Grade Crossing
Intersections**

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*Xuanwu Chen, Ph.D. Student, Florida International
University
Mohammed Hadi, Associate Professor, Florida
International University*

TRACK 3-A: PUBLIC TRANSPORTATION

**Understanding FTA's New Starts Program Criteria
through the Study of**

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Westside Subway Extension Project in Los Angeles

*Mengzhao Hu, Senior Transportation Planner, Parsons
Brinckerhoff, Inc.*

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**Caltrain: the Evolution of Commuter Rail in the San
Francisco Peninsula**

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Tom Tsai, Retired from USDOT/FRA

**Influence of Multimodal Network on Public Transit
Performance**

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*Makarand Gawade, Graduate Research Assistant,
University of South Florida*

Yu Zhang, Assistant Professor, University of South Florida

New York City's Experience in Intermodal Facilities for Passenger

Transportation

Jerry Cheng, Retired Principal City Planner, New York City Department of City Planning

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TRACK 3-B: TRANSPORTATION STRUCTURES

Hunan Aizhai Suspension Bridge, One of the Longest Suspension Bridges

in the World - The Construction of the 1176 m Long Suspension Bridge

Yinbo Liu, Vice President, HJI Group Corporation

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Research on Grinded Rail Profile and Its Development in High-speed

Railway

Yu Zhou, School of Transportation Engineering, Tongji University

Tianyi Wang, Master Student, School of Transportation Engineering, Tongji

University

Jie Zhang, Master Student, School of Transportation Engineering, Tongji University

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Enhancing Bridge Construction Efficiency

Yong Bai, Chair and Professor, North Dakota State University

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Disaster Prevention and Reduction Countermeasures in Developing

Design Alternatives for China Wenchuan Earthquake Recovery Project

Yi Shi, Director, Sichuan Urban Environment Project Management Office

Yu Chen, Senior Engineer, HJI Group Corporation, CEO, HJI Group Corporation

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TRACK 4-A: SAFETY STUDY AND ANALYSIS

Analysis of Possible Landscaping-related Crashes at Highway Medians at Intersections

Pei-Sung Lin, Program Director, CUTR, University of South Florida

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Aldo Fabregas, Research Associate, CUTR, University of South Florida

Hongyun Chen, Assistant Professor, Embry-Riddle Aeronautical University

Dilemma Zone and Its Safety Impacts at Signalized Intersections

Yinan Zheng, Graduate Research Assistant, University of Florida

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Numerical Simulation for the Rockfall Trajectory on Probability Theory

Xiao Feng, Professor, Chongqing Jiaotong University

Jun Guo, Student, Chongqing Jiaotong University

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Understanding Pedestrian Compliance and Safety Impact of Different Walk Modes at Signalized Intersections for a Livable Community

Jacob Mirabella, Research Assistant, University of South Florida

Yu Zhang, Assistant Professor, University of South Florida

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TRACK 4-B: GEOTECHNICAL AND MATERIALS

Preliminary Study on the Application of Ultrasonic Non-destructive Testing of Soil Nails

Jinyuan Liu, Associate Professor, Ryerson University

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An Overview of Seismic Design Criteria for High Speed Rails

Endi Zhai, Vice President, Kleinfelder, Inc.

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Evaluation of Resilient Modulus and Modulus of Subgrade Reaction

Properties for Florida Pavement Subgrades

Wei-Chou V. Ping, Professor, Florida State University
Biqing Sheng, Graduate Research Assistant, Florida State University

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TRACK 5-A: SAFETY TOOLS AND TECHNOLOGIES

Walk to School Web Route Planner for Miami Dade County, Florida

Zhaohui (Jennifer) Fu, Director GIS Center, Florida International University

Boyuan (Keven) Guan, GIS Programmer, Florida International University

Henry Hochmair, Assistant Professor, University of Florida

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Safety Analyst (SA) Review and Application on Highway Safety Study in Florida

Hongyun Chen, Assistant Professor, Embry-Riddle Aeronautical University

Pei-Sung Lin, Program Director, CUTR, University of South Florida

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Development of Florida-Specific Safety Performance Functions for

Signalized Intersections for SafetyAnalyst Applications

Jinyan Lu, PhD Candidate, Florida International University

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Impacts of P2V Wireless Communication on Safety and Environment in Work

Zones through Driving Simulator Tests

Qing Li, Graduate Research Assistant, Texas Southern University

Fengxiang Qiao, Associate Professor, Texas Southern University

Xiaobing Wang, Graduate Research Assistant, Texas

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Southern University

Lei Yu, Professor and Dean, Texas Southern University

TRACK 5-B: AIR TRANSPORTATION

Hub Network Design for Profit Optimization

Cheng-Chang Lin, Professor, National Cheng Kung University

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Shwu-Chiou Lee, Doctoral Student, National Cheng Kung University

Can Small and Developing Nations with National Flag Air Carriers Compete

with Larger Influential Foreign Carriers

Kamarah Scott, Graduate Research Assistant, Texas Southern University

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Fengxiang Qiao, Associate Professor, Texas Southern University

GPS Based Emission Estimation at Airport Terminals for Passenger-Picking-Up Vehicles

Fengxiang Qiao, Associate Professor, Texas Southern University,

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Larry Hill, Graduate Research Assistant, Texas Southern University

Lei Yu, Dean and Professor, Texas Southern University

Environmental Impact Analysis of Engineless Taxiing at Airport with

Different Emerging Technologies

Rui Guo, Graduate Research Assistant, University of South Florida

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Yu Zhang, Assistant Professor, University of South Florida