

UTRC AT TRB 2014

JANUARY 12-16, 2014

UNIVERSITY TRANSPORTATION RESEARCH CENTER - REGION 2

Papers and
Presentations
By Date and Time

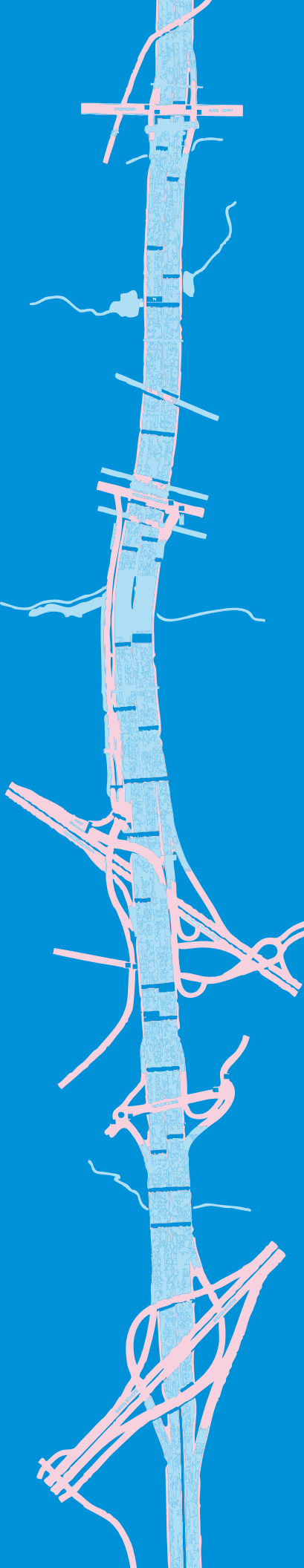


Transportation Research Board 93rd Annual Meeting

JANUARY 12-16, 2014 • WASHINGTON D.C.

Transportation Research Board 93rd Annual Meeting

January 12-16, 2014 • Washington, D.C.



THIS DOCUMENT ASSEMBLES THE SESSIONS IN WHICH UTRC FACULTY AND STAFF WILL BE PRESENTING AT THE TRANSPORTATION RESEARCH BOARD (TRB) 93RD ANNUAL MEETING.

THE MEMBER INSTITUTIONS OF THE UNIVERSITY TRANSPORTATION RESEARCH CENTER ARE:

City University of New York
Clarkson University
Columbia University
Cornell University
Hofstra University
Manhattan College
New Jersey Institute of Technology
New York Institute of Technology
New York University
Polytechnic Institute of NYU
Rochester Institute of Technology
Rowan University
Rensselaer Polytechnic Institute
Rutgers University¹
State University of New York
Stevens Institute of Technology
Syracuse University
The College of New Jersey
University of Puerto Rico

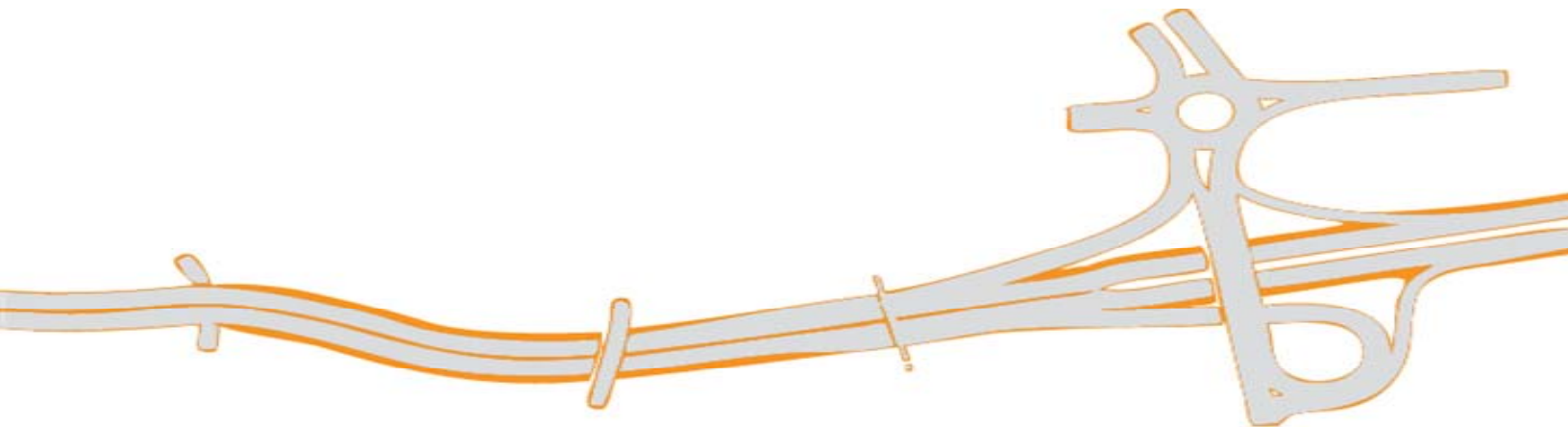
1- Member under SAFETEA-LU Legislation



**University Transportation
Research Center - Region 2**

Saturday, January 11, 2014

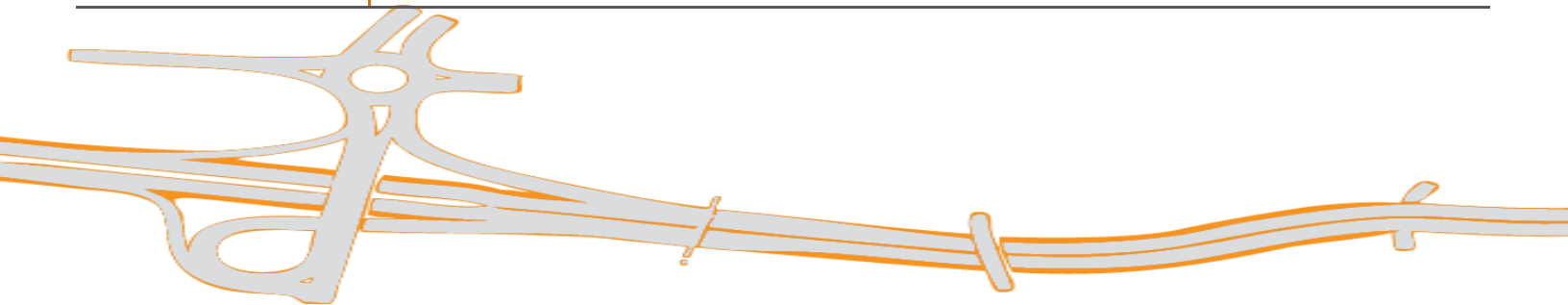
- Event Title: Digital Project Delivery
Event Date: Saturday, January 11, 2014 - 9:00AM- 6:00PM
Event Location: Marriott, Thurgood Marshall West
Presiding Officers: Dana K. Smith, National Institute of Building Sciences, presiding
Danny L. Kahler, Kahler Engineering Group, presiding
Sponsored By: Application of Emerging Technologies to Design and Construction (AFH30)
- Description: This workshop sponsored by TRB AFH30 and the building SMART alliance is being held in the interlude between the National Institute of Building Sciences and TRB conferences to attract interested parties from both events and other subject matter experts. Digital project delivery is now expected product as the real property and infrastructure industry moves into the information age. This workshop facilitates participants in both vertical and horizontal capital projects to collaborate.
- Presentation (s) **From Building Information Modeling to Bridge Information Modeling: Plus, Minus, Delta-P14-5372**
Stuart S. Chen, State University of New York, Buffalo, presenter



Sunday, January 12, 2014

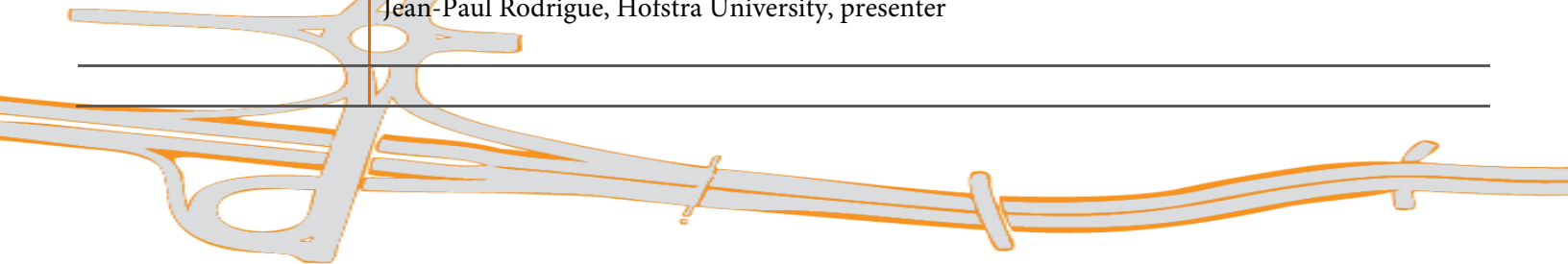
Event Number:	Workshop 107
Event Title:	Hitting the Ground Running: Choosing and Navigating a Successful Career Path--Workshop for Young and New Transportation Professionals
Event Date:	Sunday, January 12, 2014 - 9:00AM- 12:00PM
Event Location:	Marriott, Madison A
Presiding Officers:	Pete Jenior, Kittelson & Associates, Inc., presiding Lucy Phillips Priddy, U.S. Army Engineer Research and Development Center, presiding
Sponsored By:	Design and Construction (AF000) Design (AFB00) Young Members Council (YMC) (A0040T)
Description:	This workshop provides a candid examination and discussion of the career paths of assorted professionals at various stages in their journey. The speakers will discuss the career choices they have made and provide some insight into what it is like to work in their respective sectors. The workshop concludes with interaction in which the audience engages the speakers and other sector representatives in an entertaining and useful format.
Presentation (s)	Academic Perspective- P14-6839 Alison J. Conway, City College of New York, presenter Tara Cavalline, University of North Carolina, Charlotte, presenter Richard Jon Porter, University of Utah, presenter

Event Number:	Workshop 115
Event Title:	State-of-the-Art Use and Application of High-Performance Thin Asphalt Overlays
Event Date:	Sunday, January 12, 2014 - 9:00AM-12:00PM
Event Location:	Marriott, Salon 1 Workshop
Presiding Officers:	Thomas A. Bennert, Rutgers University, presiding Susan Louise Tighe, University of Waterloo, Canada, presiding
Sponsored By:	Pavement Rehabilitation (AFD70) General Issues in Asphalt Technology (AFK10) Pavement Maintenance (AHD20)
Description:	The workshop is designed to help practitioners and researchers understand the current state of the art in the effective use of high-performance thin asphalt overlays (1 in. or less) used in applications requiring higher levels of rutting and fatigue cracking resistance. The focus will be on achieving better and more practical designs, developing and applying effective specifications, achieving functional performance, and incorporating RAP and warm asphalt in these designs.



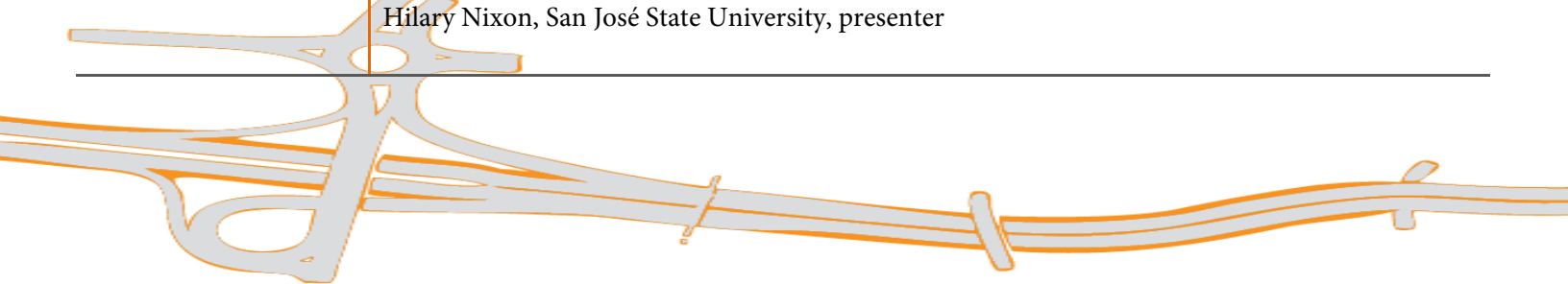
Event Number: Workshop 123
Event Title: Freight Data Disaggregation for Modeling and Analysis: Recent Advances and Development of Short-Term Research Road Map
Event Date: Sunday, January 12, 2014 - 9:00AM-12:00PM
Event Location: Shoreham Congressional.
Presiding Officers: Coral A. Torres, Federal Highway Administration, presiding
Joseph Y. J. Chow, Ryerson University, Canada, presiding
Sponsored By: Freight Transportation Data ([ABJ90](#))
Freight Transportation Planning and Logistics ([AT015](#))
Description: In recent years researchers and practitioners have developed a number of approaches to disaggregate national freight data sets to county and TAZ levels for use in freight modeling and analysis. How has this disaggregation been done? What are the strengths and weaknesses of these approaches? What are the next steps in improving the validity and reliability of freight data disaggregation? Please join us for a morning of discussion and development of a roadmap for freight data disaggregation.
Presentation (s) **Commodity Flow Survey Microdata- P14-6315**
Jose Holguín-Veras, Rensselaer Polytechnic Institute, presenter

Event Number: Workshop 127
Event Title: One Hundred Years of the Panama Canal: Legacy and Future, Part 1 (Part 2, Session 182)
Event Date: Sunday, January 12, 2014 - 9:00AM- 12:00PM
Event Location: Shoreham, Blue Room
Presiding Officers: Jean-Pierre Medevielle, French Institute of Science and Technology for Transport, Development and Networks, presiding
Maryvonne Cécile Plessis-Fraissard, Consultant, presiding
Sponsored By: International Activities ([A0010](#))
Transportation History ([ABG50](#))
Freight Systems ([AT000](#))
International Trade and Transportation ([AT020](#))
Marine ([AW000](#))
Ports and Channels ([AW010](#))
Description: Commemorating the 100th anniversary of the Panama Canal, this workshop reviews its historical influence and examines the potentially dramatic changes that will be produced with the expansion of the canal in 2015. That influence is already being felt as shippers, carriers, and ports respond to the prospective opportunities and challenges the expansion presents. Speakers will discuss the canal in terms of its logistical, commercial, financial, economic, and environmental influences and impacts.
Presentation (s) **Keynote Address- P14-5836**
Jean-Paul Rodrigue, Hofstra University, presenter



Event Number: Workshop 133
Event Title: Big Data and Open Data for Transportation Services and Public Engagement
Event Date: Sunday, January 12, 2014 - 9:00 AM-12:00PM
Event Location: Hilton, Columbia Hall 6
Presiding Officers: Piyushimita (Vonu) Thakuria, University of Glasgow, United Kingdom, presiding
Harvey J. Miller, Ohio State University, presiding
Sponsored By: Urban Transportation Data and Information Systems ([ABI30](#))
Geographic Information Science and Applications ([ABI60](#))
Artificial Intelligence and Advanced Computing Applications ([ABI70](#))
Visualization in Transportation ([ABI95](#))
Intelligent Transportation Systems ([AHB15](#))
Description: The workshop focuses on how open big data can facilitate transportation services and engagement through self-organization, cooperation, and activism. Sponsoring committee chairs are invited to give their perspectives. Topics include data analytics, information extraction from user-generated content, machine-to-machine communications and Internet of Things, open data and civic hacking, volunteered geographic information, visualization of massively large data sets, and open source social software.
Presentation (s) **Perspectives on Big Data and Open Data- P14-5725**
Catherine Theresa Lawson, State University of New York, Albany, presenter
Adel W. Sadek, State University of New York, Buffalo, presenter
Matthew G. Karlaftis, National Technical University of Athens, Greece, presenter
James P. Hall, University of Illinois, Springfield, presenter

Event Number: Workshop 150
Event Title: States Are Leading the Charge on Transportation Revenue Initiatives--Why Not Washington, D.C.?
Event Date: Sunday, January 12, 2014 - 9:00AM-12:00PM
Event Location: Hilton, International East
Presiding Officers: Joung Lee, American Association of State Highway and Transportation Officials, presiding
Sponsored By: Revenue and Finance ([ABE10](#))
Description: This workshop discusses the enactment of state- and local-level transportation revenue solutions around the nation, including an examination of the themes and lessons that could be relevant to other states. This workshop also explores the implications of these actions for federal surface transportation reauthorization after MAP-21.
Presentation (s) **What Do Americans Think About Federal Tax Options to Support Public Transit, Highways, and Local Streets and Roads? Results From Year 4 of a National Survey- 14-0524****
Asha Weinstein Agrawal, San José State University, presenter
Hilary Nixon, San José State University, presenter



Event Number: Workshop 142
Event Title: Opportunities for Accommodating New Technologies, Apps, and Data Capture in Improving and Regulating Taxis
Event Date: Sunday, January 12, 2014 - 9:00AM-12:00PM
Event Location: Hilton, Gunston
Presiding Officers: James Cooper, Napier University, United Kingdom, presiding
Sponsored By: Paratransit ([AP060](#))
Taxi ([AP060\(2\)](#))

Description: The past 5 years have seen exceptional growth in the development of smartphone apps to serve the taxi rider. Not all such innovations have received the welcome from parties that might follow the improvements suggested; many have had a hostile reception from some suppliers and regulators who could benefit in appropriate circumstances. Apps have, in equal measure, created opportunity and presented significant new challenges. The workshop will interest regulators, suppliers, and academics.

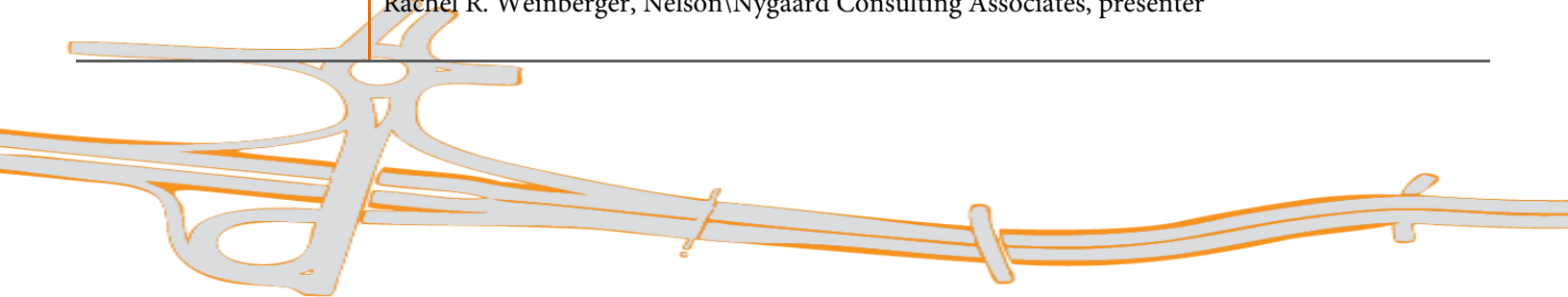
Presentation (s) **Regulatory Take on Apps- P14-6852**
Matthew D. Daus, International Association of Transportation Regulators, presenter

Event Number: Workshop 143
Event Title: Parking Policy and Urban Mobility: Expanding Our Understanding
Event Date: Sunday, January 12, 2014 - 9:00AM-12:00PM
Event Location: Hilton, Columbia Hall 12

Presiding Officers: Rachel R. Weinberger, Nelson\Nygaard Consulting Associates, presiding
Sponsored By: Transportation Economics ([ABE20](#))
Transportation Demand Management ([ABE50](#))
Bicycle Transportation ([ANF20](#))
Emerging and Innovative Public Transport and Technologies ([AP020](#))
Automated Transit Systems ([AP040](#))
Parking Management ([ABE50\(1\)](#))

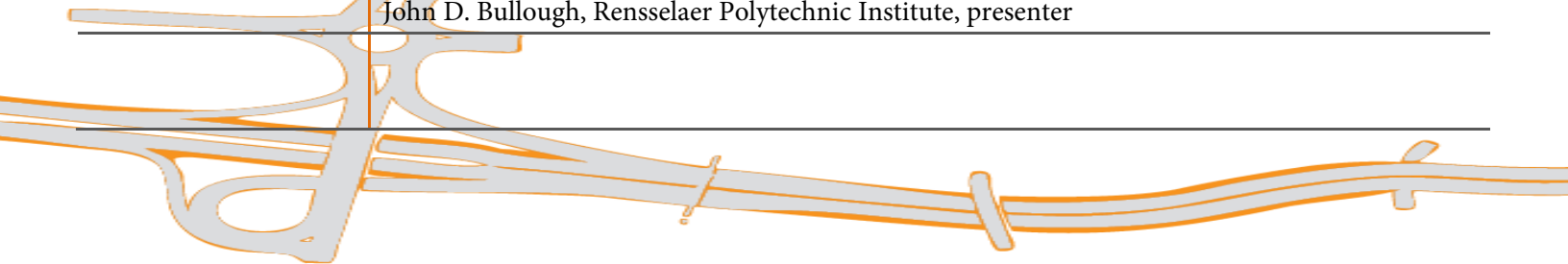
Description: Parking research shows the importance of parking to mode choice and trip reduction, to economic development and housing affordability, and to the quality of the built environment. Tapping academics and practitioners to explore the breadth of parking's impact on urban mobility, this workshop seeks to blow out the echo chamber and bring attention to the broader aspects of parking and urban mobility. Please come with your thoughts, comments, and questions.

Presentation (s) **Parking Pricing, Supply, and Travel Behavior- P14-6385**
Rachel R. Weinberger, Nelson\Nygaard Consulting Associates, presenter

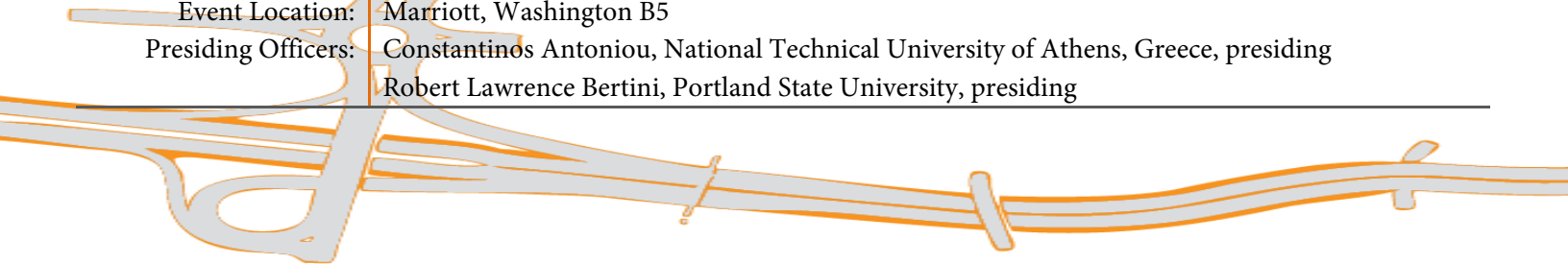


Event Number:	Workshop 154
Event Title:	What Does Accessibility Really Mean in Low-Income Communities? New Findings on Multimodal Access, Employment, and Health Outcomes
Event Date:	Sunday, January 12, 2014 - 9:00AM-12:00PM
Event Location:	Hilton, Cabinet
Presiding Officers:	Ann M. Hartell, Vienna University of Economics and Business, Austria, presiding
Sponsored By:	Social and Economic Factors of Transportation (ADD20) Environmental Justice in Transportation (ADD50) Health and Transportation (ADD50(1))
Description:	This workshop presents groundbreaking findings on the nexus of transportation and housing from the HUD Sustainable Communities Research Grants. Presenters will describe analyses of the relationship between multimodal accessibility, household economic and health outcomes, and subsidized housing. Findings are presented along with practitioner tools, methods, and data resources developed and used in the research to highlight opportunities for use in planning and project development.
Presentation (s)	Car Access, Neighborhood Quality, and Employment for Residents of Subsidized Housing- P14-5430 Rolf Pendall, The Urban Institute, presenter Evelyn Blumenberg, University of California, Los Angeles, presenter Casey J. Dawkins, University of Maryland, College Park, presenter Jae Sik Jeon, University of Maryland, College Park, presenter Gregory Pierce, University of California, Los Angeles, presenter Michael Smart, Rutgers University, presenter

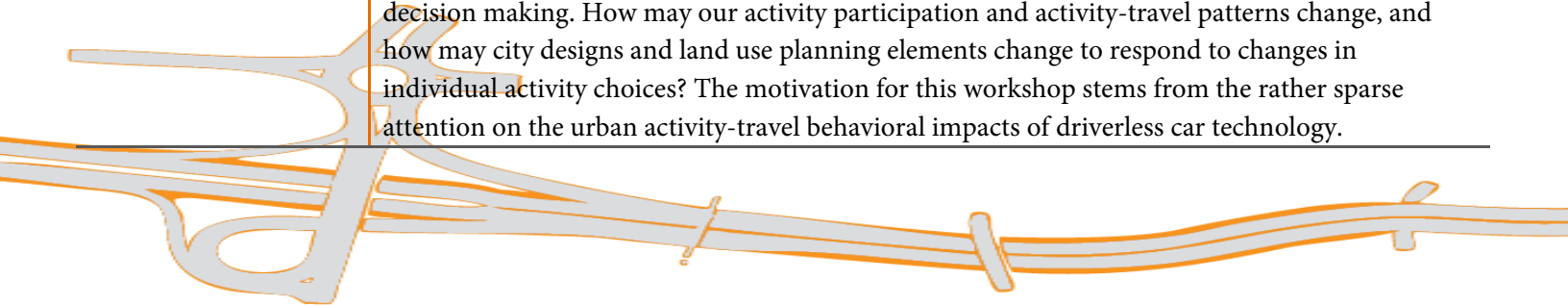
Event Number:	Workshop 155H
Event Title:	HF-H Let There Be Light--But When and Where?
Event Date:	Sunday, January 12, 2014 - 9:00AM-5:00PM
Event Location:	Ticket Required
Presiding Officers:	Ronald B. Gibbons, Virginia Polytechnic Institute and State University, presiding John D. Bullough, Rensselaer Polytechnic Institute, presiding
Sponsored By:	Vehicle User Characteristics (AND10) Visibility (AND40)
Description:	This workshop focuses on the benefits and challenges of roadway and vehicle lighting technologies that dynamically change the level and distribution of lighting. These technologies include roadway lighting that adjusts to temporal traffic and pedestrian conditions as well as headlamps that adjust to the presence of oncoming vehicles and roadway geometry. Discussion will focus on the additional research needed to further develop and deploy these potential nighttime crash countermeasures.
Presentation (s)	Adaptive Vehicle Lighting, Visibility and Safety- P14-7005 John D. Bullough, Rensselaer Polytechnic Institute, presenter



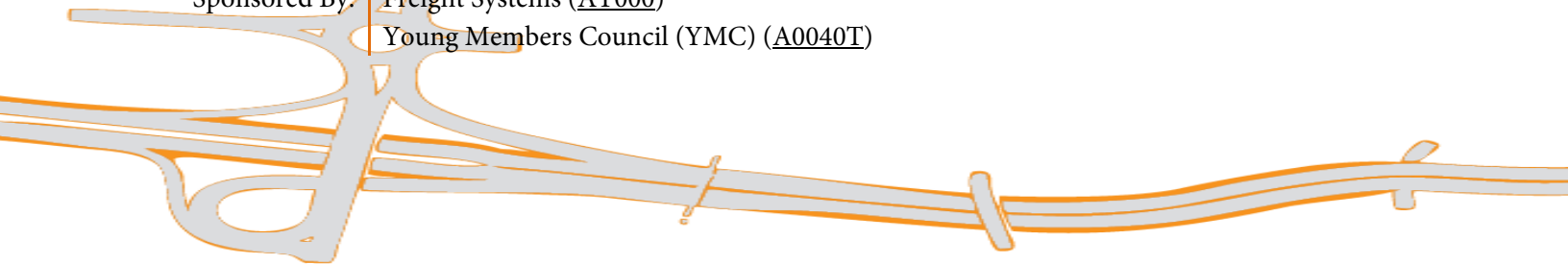
Event Number:	Workshop 161
Event Title:	Civil Integrated Management: Paradigm Shift, Our Legacy, and Our Future
Event Date:	Sunday, January 12, 2014 - 1:30PM-4:30PM
Event Location:	Marriott, Wilson A
Presiding Officers:	Amlan Mukherjee, Michigan Technological University, presiding David Hyung Seok Jeong, Iowa State University, presiding
Sponsored By:	Information Systems and Technology (ABI50) Construction Management (AFH10) Information Systems in Construction Management (AFH10 (1))
Description:	This workshop provides an opportunity to showcase the cutting edge of civil integrated management applications in the field of heavy civil construction. The invited speakers from industry, government agencies, academia, and international organizations will present their experiences, lessons learned from their pilot projects, international efforts in developing standards and codes, and their visions on this new paradigm in practice.
Presentation (s)	Development of Alignment-Based Parametric Data Exchange Schema for Bridge Geometry-14-2745 Hanjin Hu, State University of New York, Buffalo, presenter Stuart S. Chen, State University of New York, Buffalo, presenter Rohit Srikonda, State University of New York, Buffalo, presenter Najaf Ali, State University of New York, Buffalo, presenter
Event Number:	Workshop 166
Event Title:	Effect of Falling-Weight Deflectometer Pulse Duration on Measured and Predicted Pavement Structural Response
Event Date:	Sunday, January 12, 2014 - 1:30PM-4:30PM
Event Location:	Marriott, Virginia B
Presiding Officers:	Lynne H. Irwin, Cornell University, presiding
Sponsored By:	Strength and Deformation Characteristics of Pavement Sections (AFD80)
Description:	The workshop presents results of a contest in which research teams review and analyze FAA heavyweight deflectometer (HWD) data. Each team presents a comprehensive description of the methodologies used, backcalculated pavement layer data, and predictions of the horizontal strains, vertical stresses, and vertical differential displacements at specified locations for each test point. Each team also answers the question, "Does the type of HWD/FWD make a difference in the calculated results?"
Event Number:	Workshop 172
Event Title:	Simulation: Looking Back and Looking Ahead
Event Date:	Sunday, January 12, 2014 - 1:30PM-4:30PM
Event Location:	Marriott, Washington B5
Presiding Officers:	Constantinos Antoniou, National Technical University of Athens, Greece, presiding Robert Lawrence Bertini, Portland State University, presiding



Sponsored By:	Traffic Flow Theory and Characteristics (AHB45)
Description:	The focus of this year's SimSub simulation workshop is consistent with the meeting's theme: "Celebrating Our Legacy, Anticipating Our Future." Top experts in the field will provide discussion papers on the history, current status, and future of traffic simulation. The audience will be asked to provide input and frame a forward-looking discussion of future trends and research needs. Join us for this popular annual event. The intent is to publish a circular containing the material presented.
Presentation (s)	Big Data and the Calibration and Validation of Traffic Simulation Models- P14-7059 Kaan Ozbay, Rutgers University, presenter
Event Number:	Workshop 181
Event Title:	Harmonization of CO2 Calculation for Freight Transport: Progress Report
Event Date:	Sunday, January 12, 2014 - 1:30PM-4:30PM
Event Location:	Shoreham, Capitol
Presiding Officers:	Alan Lewis, Transport & Travel Research Ltd., United Kingdom, presiding James J. Winebrake, Rochester Institute of Technology, presiding Edgar Blanco, Massachusetts Institute of Technology, presiding Buddy Polovick, U.S. Environmental Protection Agency, presiding
Sponsored By:	Transportation and Sustainability (ADD40) Freight Systems (AT000) International Trade and Transportation (AT020) Transportation Energy (ADC70)
Description:	This workshop is intended to inform attendees from both the research and industry sectors of the progress in assessing and harmonizing the wide variety of existing methods being used for calculating the carbon footprint of supply chains. The workshop covers different freight transport modes and operation types in different international regions and the arrangements proposed to continue to develop an internationally harmonized approach in the future.
Event Number:	Workshop 188
Event Title:	Activity-Travel Behavioral Impacts and Travel Demand Modeling Implications of Driverless Cars
Event Date:	Sunday, January 12, 2014 - 1:30PM-4:30PM
Event Location:	Hilton, Columbia Hall 2
Presiding Officers:	Chandra R. Bhat, University of Texas, Austin, presiding
Sponsored By:	Transportation System Policy, Planning and Process (ADA00) Travel Analysis Methods (ADB00)
Description:	This workshop focuses on the potential impact of driverless cars on human activity-travel decision making. How may our activity participation and activity-travel patterns change, and how may city designs and land use planning elements change to respond to changes in individual activity choices? The motivation for this workshop stems from the rather sparse attention on the urban activity-travel behavioral impacts of driverless car technology.



Presentation (s)	Setting the Stage: Urban Planning and Community Design Considerations in the Era of Driverless Cars- P14-6502 Alain L. Kornhauser, Princeton University, presenter
Event Number: Event Title: Event Date: Event Location: Presiding Officers: Sponsored By:	Workshop 207 Transit's Reach: First Mile-Last Mile Sunday, January 12, 2014 - 1:30PM-4:30 PM Hilton, Columbia Hall 12 Steve R. Yaffe, Arlington Transit, presiding Paratransit (AP060)
Description:	This workshop is an opportunity for transit professionals to focus on methods by which trip origins and destinations beyond walking distance of transit stops can be linked to transit hubs, including neighborhood circulators, zone dial-a-ride, shuttle services, taxis, bikeshare, and carshare. This two-part workshop focuses on the transportation options available for transit riders to use from trip origin to destination, beyond the typical walk distance to and from a transit stop or station. Part one focuses on transit connections and services. Part two focuses on the pedestrian and bicycle environment and service options.
Presentation (s)	Successes and Failures of First Mile Shuttles in New Jersey- P14-6249 Devajyoti Deka, Rutgers University, presenter
Event Title: Event Date: Event Location: Presiding Officers: Sponsored By:	Urban Streets Subcommittee, AHB40(3.3) Sunday, January 12, 2014 - 3:00PM-4:15PM Marriott, Balcony A Janice R. Daniel, New Jersey Institute of Technology, presiding Highway Capacity and Quality of Service (AHB40)
Event Title: Event Date: Event Location: Presiding Officers: Sponsored By:	Joint Meeting of the Freight Systems and Marine Group Executive Boards Sunday, January 12, 5:00PM-6:30PM Shoreham, Forum Thomas H. Wakeman, Stevens Institute of Technology, presiding Barbara A. Ivanov, Washington State Department of Transportation, presiding Freight Systems (AT000) Marine (AW000)
Event Title: Event Date: Event Location: Presiding Officers: Sponsored By:	Young Members Council - Freight Systems and Marine Subcommittee, AT000(1) Sunday, January 12, 2014 - 5:00PM-6:30PM Shoreham, Senate Alison J. Conway, City College of New York, presiding Marc Alan Howlett, University of North Carolina, Chapel Hill, presiding Freight Systems (AT000) Young Members Council (YMC) (A0040T)



Monday, January 13, 2014

Event Title: Corrosion Committee
Event Date: Monday, January 13, 2014 -8:00AM-12:00PM
Event Location: Marriott, Washington B3
Presiding Officers: Seung-Kyoung Lee, SK Lee and Associates, Inc., presiding
Sponsored By: Corrosion ([AHD45](#))

Presentation(s) **2. Sensor Technology for Monitoring the Interior of the Manhattan Bridge Main Cables- P14-5895**

Raimondo Betti, Columbia University, presenter

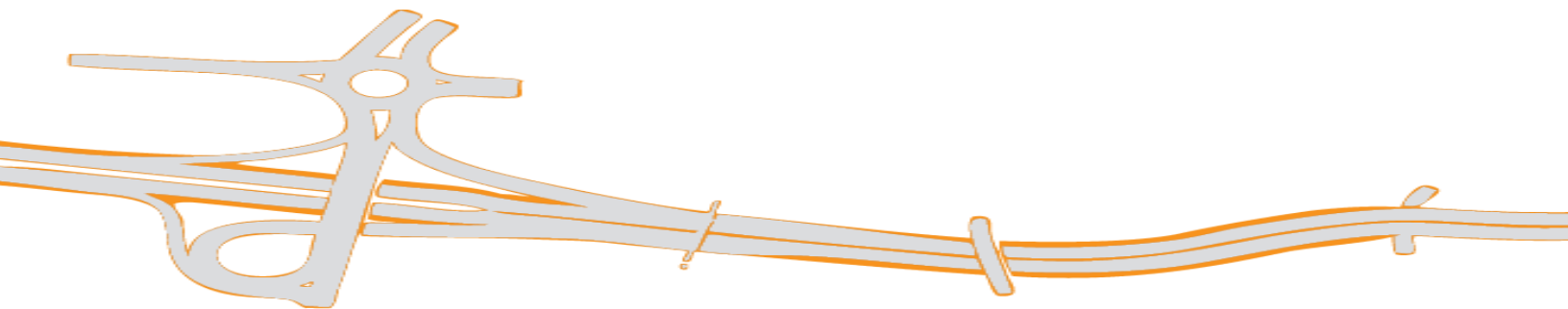
Statistical Correlation Method to Identify Half-Cell Potential and Electrical Resistivity Threshold Values- 14-2183

Brian M. Pailes, Rutgers State University, presenter

Nenad Gucunski, Rutgers University, presenter

Event Title: Bicycle Transportation Committee
Event Date: Monday, January 13, 2014 -8:00PM-12:00PM
Event Location: Hilton, Cabinet
Presiding Officers: Ralph Buehler, Virginia Polytechnic Institute and State University, presiding
Sponsored By: Bicycle Transportation ([ANF20](#))

Event Title: Major Activity Center Circulation Systems Committee
Event Date: Monday, January 13, 2014 -8:00AM-12:00PM.
Event Location: Hilton, Columbia Hall 9 & 10
Presiding Officers: Rongfang Liu, New Jersey Institute of Technology, presiding
Sponsored By: Automated Transit Systems ([AP040](#))



Event Number:	Session 216
Event Title:	Asphalt Mixtures with High Recycle Content
Event Date:	Monday, January 13, 2014 -8:00AM-9:45AM
Event Location:	Marriott, Salon 1
Presiding Officers:	Shane Buchanan, APAC, Inc., presiding
Sponsored By:	Characteristics of Nonasphalt Components of Asphalt Paving Mixtures (AFK30)
Description:	This session explores the properties of asphalt mixtures containing high percentages of reclaimed asphalt pavement and the processes necessary for successful use of such mixtures.
Presentation (s)	Strategies for Incorporating Higher RAP Percentages: Review of Implementation Trials in Northeast States- 14-5321** Thomas A. Bennert, Rutgers University, presenter Jo Sias Daniel, University of New Hampshire, presenter Walaa S. Mogawer, University of Massachusetts, Dartmouth, presenter

Event Number:	Session 227
Event Title:	Current Topics in Airport Ground Transportation and Terminal Operations
Event Date:	Monday, January 13, 2014 -8:00AM-9:45AM
Event Location:	Shoreham, Palladian
Presiding Officers:	Lourenço Dantas, Massachusetts Port Authority, presiding
Sponsored By:	Airport Terminals and Ground Access (AV050)
Presentation (s)	Comparison of Mode Cost by Time of Day for Nondriving Airport Trips to and from New York City's Pennsylvania Station- 14-4399 Ci Yang, Rutgers University, presenter Ender Faruk Morgul, Rutgers University, presenter Eric J. Gonzales, Rutgers University, presenter Kaan Ozbay, Rutgers University, presenter

Event Number:	Session 237
Event Title:	Creative Approaches to Developing Public-Private Partnerships
Event Date:	Monday, January 13, 2014 -8:00AM-9:45AM
Event Location:	Hilton, International West
Presiding Officers:	Jennifer R. Mayer, Ernst and Young, presiding
Sponsored By:	Revenue and Finance (ABE10)
Presentation (s)	Social Welfare Analysis for Alternative Investment Public-Private Partnership Approaches- 14-2203 Omid M. Rouhani, Cornell University, presenter H. Oliver Gao, Cornell University, presenter Raymond Richard Geddes, Cornell University, presenter Germà Bel, University of Barcelona, Spain, presenter Hossain Zarei, AECOM, presenter



Event Number: Session 253
Event Title: Work Zone Traffic Control for Safety and Mobility
Event Date: Monday, January 13, 2014 -8:30AM-10:15AM
Event Location: Marriott, Salon 2
Presiding Officers: Timothy B. Baughman, Institute for Transportation Research and Education, presiding
Sponsored By: Work Zone Traffic Control ([AHB55](#))

Presentation (s) **Impact of Shoulder Use and Capacity Reduction Factors on Highway Work Zone Optimization- 14-1241**
Bo Du, New Jersey Institute of Technology, presenter
I-Jy Chien, New Jersey Institute of Technology, presenter

Event Number: Session 254
Event Title: Freight Data: Collection Methods and Applications for Policy and Infrastructure Decisions
Event Date: Monday, January 13, 2014 -8:30AM-10:15AM
Event Location: Shoreham, Blue Room Foyer
Presiding Officers: Alison J. Conway, City College of New York, presiding
Sponsored By: Truck Size and Weight ([AT055](#))

Presentation (s) **Urban Freight Performance Evaluation Using GPS Data- 14-4470**
Xia Yang, Rensselaer Polytechnic Institute, presenter
Zhanbo Sun, Rensselaer Polytechnic Institute, presenter
Xuegang (Jeff) Ban, Rensselaer Polytechnic Institute, presenter
Jeffrey Wojtowicz, Rensselaer Polytechnic Institute, presenter
Jose Holguín-Veras, Rensselaer Polytechnic Institute, presenter

The Role Of Classification Systems In Freight Trip Generation Modeling- 14-5519
Shama Campbell, Rensselaer Polytechnic Institute, presenter
Miguel Jaller, Rensselaer Polytechnic Institute, presenter
Ivan Sanchez-Diaz, Rensselaer Polytechnic Institute, presenter
Jose Holguín-Veras, Rensselaer Polytechnic Institute, presenter

Allocation of Truck-Induced Pavement Damage Cost- 14-3567
Hao Wang, Rutgers University, presenter
Shih-Hsien Yang, National Cheng Kung University, Taiwan, presenter
Jiao Nie, Rutgers University, presenter
Zilong Wang, Rutgers University, presenter

Event Number: Session 255
Event Title: Current Research in Urban Freight Transportation
Event Date: Monday, January 13, 2014 -8:30AM-10:15AM
Event Location: Shoreham, Blue Room Foyer
Presiding Officers: Qian Wang, State University of New York, Buffalo, presiding
Sponsored By: Urban Freight Transportation ([AT025](#))

Description: This session showcases research efforts that identify strategies and tools for analyzing and managing freight transportation in cities. The presented work covers a variety of topics such as off-hour deliveries, real-time traffic information, and travel demand models.

Presentation (s) **Public-Sector Freight Interventions in Metropolitan Areas, II: Pricing, Logistics, and Demand Management- 14-0837**

Jose Holguín-Veras, Rensselaer Polytechnic Institute, presenter
Johanna Amaya, Rensselaer Polytechnic Institute, presenter
Miguel Jaller, Rensselaer Polytechnic Institute, presenter
Xiaokun (Cara) Wang, Rensselaer Polytechnic Institute, presenter
Jeffrey Wojtowicz, Rensselaer Polytechnic Institute, presenter
Carlos Alberto Gonzalez-Calderon, Rensselaer Polytechnic Institute, presenter
Ivan Sanchez-Diaz, Rensselaer Polytechnic Institute, presenter
Stacey Darville Hodge, New York City Department of Transportation, presenter
Michael Browne, University of Westminster, United Kingdom, presenter
Suzann Rhodes, CDM Smith, presenter
Daniel Gene Haake, Mid-Ohio Regional Planning Commission, presenter

Receiver-Led Consolidation Programs: Rationale and Potential- 14-0591

Jose Holguín-Veras, Rensselaer Polytechnic Institute, presenter
Ivan Sanchez-Diaz, Rensselaer Polytechnic Institute, presenter

Investigation of Freight Delivery Pattern in New York City- 14-5249

Yiwei Zhou, Rensselaer Polytechnic Institute, presenter
Xiaokun (Cara) Wang, Rensselaer Polytechnic Institute, presenter
Alison J. Conway, City College of New York, presenter
Quanquan Chen, City College of New York, presenter

Geographically Focused Incentives to Foster Off-Hour Deliveries: Theory and Performance- 14-4969

Jose Holguín-Veras, Rensselaer Polytechnic Institute, presenter
Felipe Aros-Vera, Rensselaer Polytechnic Institute, presenter

Event Number: Session 262

Event Title: Transportation History

Event Date: Monday, January 13, 2014 -8:30AM-10:15AM

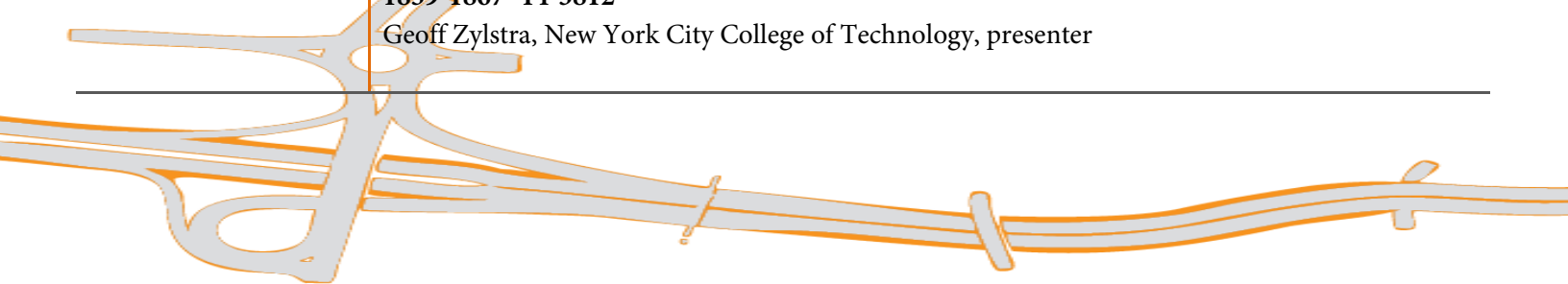
Event Location: Hilton, International Center

Presiding Officers: Martin Wachs, University of California, Los Angeles, presiding

Sponsored By: Transportation History ([ABG50](#))

Presentation (s) **When Streetcars Were Racial Tools: Jim Crow Segregation on Philadelphia's Streetcars, 1859-1867- 14-3812**

Geoff Zylstra, New York City College of Technology, presenter



Event Title: Visibility Committee
Event Date: Monday, January 13, 2014 -10:15AM-12:00PM
Event Location: Marriott, Washington B5
Presiding Officers: John D. Bullough, Rensselaer Polytechnic Institute, presiding
Sponsored By: Visibility ([AND40](#))

Event Title: Session 292
Event Date: Monday, January 13, 2014 -10:15AM-12:00PM
Event Location: Hilton, Georgetown West
Presiding Officers: Brendon Hemily, Hemily and Associates, presiding
Sponsored By: Public Transportation Planning and Development ([AP025](#))

Presentation (s) **Quantifying Transportation Benefits of Transit-Oriented Development in New Jersey- 14-4888**

Sandeep Mudigonda, Rutgers University, presenter
Kaan Ozbay, Rutgers University, presenter
Ozgur Ozturk, Rutgers University, presenter
Shrisan Iyer, New York City Transit Authority, presenter
Robert B. Noland, Rutgers University, presenter

Event Number: Session 299
Event Title: Concrete Properties: Research on Concrete Used in Bridge Applications
Event Date: Monday, January 13, 2014 -10:45AM-12:30PM
Event Location: Marriott, Salon 2
Presiding Officers: Tara Cavalline, University of North Carolina, Charlotte, presiding
Sponsored By: Properties of Concrete ([AFN20](#))

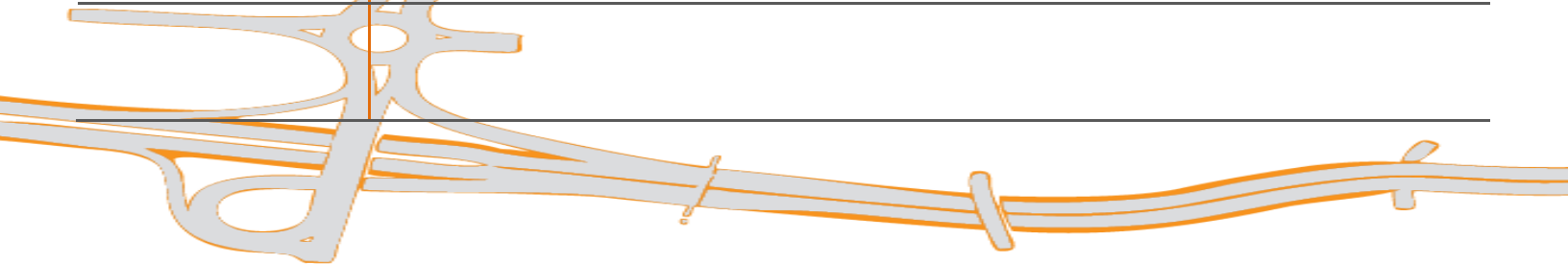
Presentation (s) **Shrinkage Behavior of High-Performance Concrete Cured Using Heat Blanket- 14-5283**

Jonathan Eagelton, Rutgers University, presenter
Hani H. Nassif, Rutgers University, presenter
Chaekuk Na, Rutgers University, presenter

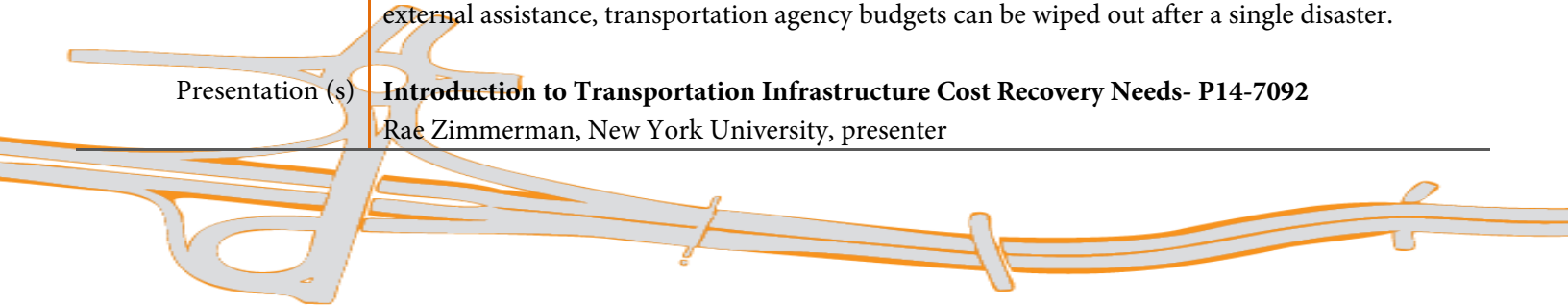
Event Number: Session 301
Event Title: Emerging Technologies and Advances in Concrete and Cementitious Materials
Event Date: Monday, January 13, 2014 -10:45AM-12:30PM
Event Location: Marriott, Salon 2
Presiding Officers: Paul J. Tikalsky, Oklahoma State University, presiding
Sponsored By: Concrete Materials ([AFN00](#))

Basic Research and Emerging Technologies Related To Concrete ([AFN10](#))

Presentation (s)	<p>Alkali-Activated Cement-Free Concrete: Development of Practical Mixtures for Construction- 14-4674 Robert Thomas, Clarkson University, presenter Sulapha Peethamparan, Clarkson University, presenter Adam Howe, Clarkson University, presenter</p>
<p>Event Number: Session 320 Event Title: Congestion Pricing Issues Event Date: Monday, January 13, 2014 -10:45AM-12:30PM Event Location: Hilton, International Center Presiding Officers: Kenneth Buckeye, Minnesota Department of Transportation, presiding Sponsored By: Congestion Pricing (ABE25)</p>	<p>Theory versus implementation in congestion-based parking pricing: An evaluation of SFpark, 2011 to 2012- 14-4424 Daniel G. Chatman, University of California, Berkeley, presenter Michael Manville, Cornell University, presenter</p>
<p>Event Number: Session 323 Event Title: Current Issues in Transportation Economics Event Date: Monday, January 13, 2014 -10:45AM-12:30PM Event Location: Hilton, International Center Presiding Officers: Mark W. Burris, Texas A&M University, presiding Sponsored By: Transportation Economics (ABE20)</p>	<p>Evaluating Various Road Ownership Structures and Potential Competition on Urban Road Network- 14-2250 Omid M. Rouhani, Cornell University, presenter H. Oliver Gao, Cornell University, presenter</p>
<p>Event Number: Session 327 Event Title: Performance Measurement and Management Event Date: Monday, January 13, 2014 -2014 10:45AM - 12:30PM Event Location: Hilton, International Center Poster Session Practice Ready Papers Administration and Management, Hot Topic: Performance Management Presiding Officers: Ramkumar Venkatanarayana, Virginia Department of Transportation, presiding Sponsored By: Performance Measurement (ABC30)</p>	<p>What's a Passing Grade? Synthesis and Review of Multimodal Street Performance Measures- 14-4702 Michael Smart, Rutgers University, presenter Henry McCann, University of California, Los Angeles, presenter Madeline Brozen, University of California, Los Angeles, presenter</p>



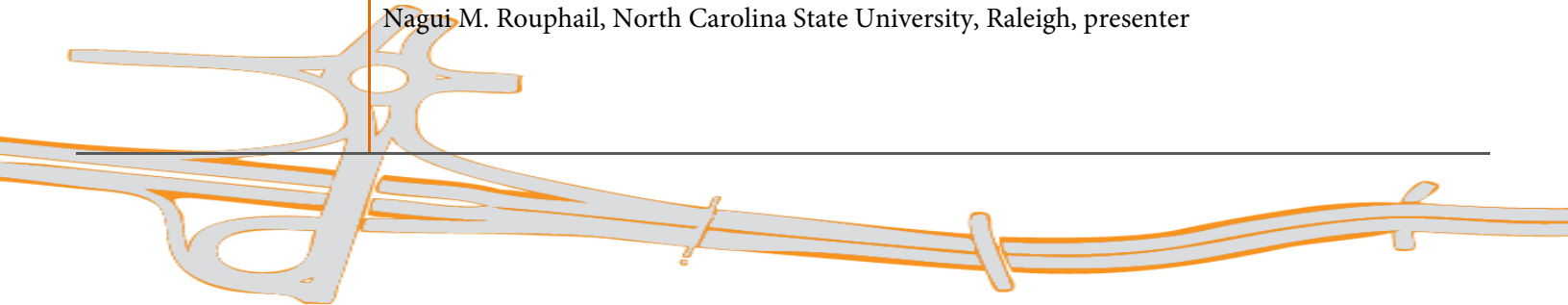
Event Number:	Session 336
Event Title:	Infrastructure Corrosion, Part 1 (Part 2, Session 443)
Event Date:	Monday, January 13, 2014 -1:30PM-3:15PM
Event Location:	Marriott, Thurgood Marshall East
Presiding Officers:	Yash Paul Virmani, Federal Highway Administration, presiding
Sponsored By:	Corrosion (AHD45)
Description:	This session discusses corrosion issues related to prestressed seven-wire strands in pretensioned and posttensioned concrete bridge structures.
Presentation (s)	Assessment of Corrosion Effects in Prestressed Girders Using NDE and Protocol Development for Field Evaluation of Prestressed Concrete Bridge Members- P14-5887 Nenad Gucunski, Rutgers University, presenter
Event Number:	Session 344
Event Title:	Advancements in Accelerated Bridge Construction
Event Date:	Monday, January 13, 2014 -1:30PM-3:15PM
Event Location:	Shoreham, Empire
Presiding Officers:	Benjamin Beerman, FHWA Resource Center, presiding
Sponsored By:	General Structures (AFF10) Steel Bridges (AFF20) Concrete Bridges (AFF30) Construction of Bridges and Structures (AFH40) Accelerated Bridge Construction (AFF10(3))
Presentation (s)	A Decision Support Framework for Accelerated Bridge Construction- 14-2476 Ossama Salem, Syracuse University, presenter Sudipta Ghorai, Syracuse University, presenter Baris Salman, Middle East Technical University-Northern Cyprus Campus, presenter Riyad Aboutaha, Syracuse University, presenter
Event Number:	Session 346
Event Title:	Cost Recovery Strategies for Transportation Agencies: Protecting Transportation Infrastructure and Systems Through Financial Strength
Event Date:	Monday, January 13, 2014 -1:30PM-3:15PM
Event Location:	Shoreham, Executive
Presiding Officers:	Rae Zimmerman, New York University, presiding
Sponsored By:	Transportation Economics (ABE20) Critical Transportation Infrastructure Protection (ABE40)
Description:	Transportation agencies seek recovery of costs pertaining to disasters and emergencies. Without external assistance, transportation agency budgets can be wiped out after a single disaster.
Presentation (s)	Introduction to Transportation Infrastructure Cost Recovery Needs- P14-7092 Rae Zimmerman, New York University, presenter



Event Number:	Session 360
Event Title:	Residential Affordability, Access, and Mobility
Event Date:	Monday, January 13, 2014 -2014 1:30PM - 3:15PM
Event Location:	Hilton, Georgetown West Lectern Session AICP Certification Maintenance Session Economics, Policy, Society
Presiding Officers:	Carolyn McAndrews, University of Colorado, Denver, presiding
Sponsored By:	Social and Economic Factors of Transportation (ADD20)
Presentation (s)	Automobile Ownership, Transit Accessibility, and Earnings: Evidence from Moving to Opportunity Experiment- 14-3913 Michael Smart, Rutgers University, presenter Evelyn Blumenberg, University of California, Los Angeles, presenter

Event Number:	Session 366
Event Title:	Freeway Operations
Event Date:	Monday, January 13, 2014 -2:00PM-3:45PM
Event Location:	Marriott, Salon 2
Presiding Officers:	Tony Z. Qiu, University of Alberta, Canada, presiding
Sponsored By:	Freeway Operations (AHB20)
Presentation (s)	Development of an On-line Scalable Approach for Identifying Secondary Crashes- 14-1689 Hong Yang, New York University, presenter Kaan Ozbay, Rutgers University, presenter Ender Faruk Morgul, Rutgers University, presenter Bekir Bartin, Rutgers University, presenter Kun Xie, New York University, presenter

Event Number:	Session 367
Event Title:	Highway Capacity and Level of Service for Freeways and Arterials
Event Date:	Monday, January 13, 2014 -2:00PM-3:45PM
Event Location:	Marriott, Salon 2
Presiding Officers:	Zong Z. Tian, University of Nevada, Reno, presiding
Sponsored By:	Highway Capacity and Quality of Service (AHB40)
Presentation (s)	A method for Scenario Selection and Probability Adjustment for Reliability and Active Traffic Management (ATM) analysis in a Highway Capacity Manual (HCM) Context- 14-5325** Seyedbehzad Aghdashi, North Carolina State University, Raleigh, presenter Bastian J. Schroeder, North Carolina State University, Raleigh, presenter Nagui M. Roupail, North Carolina State University, Raleigh, presenter



Traffic Stream Model Evaluation under Inclement Weather Condition through a Fused Database Approach- 14-5630

Soheil Seyyed Sajjadi, Florida Atlantic University, presenter
Bastian J. Schroeder, North Carolina State University, Raleigh, presenter
Nagui M. Roupail, North Carolina State University, Raleigh, presenter

Event Number: Session 377
Event Title: Strength and Deformation Characteristics of Pavement Sections
Event Date: Monday, January 13, 2014 -2:00PM-3:45PM
Event Location: Shoreham, Blue Room Foyer
Presiding Officers: Charles W. Schwartz, University of Maryland, presiding
Sponsored By: Strength and Deformation Characteristics of Pavement Sections ([AFD80](#))

Presentation (s) **Combined Effect of Tire Contact Pressure and Longitudinal Grade on the Interface Shear Stress of HMA Overlay over Ballast Concrete- 14-3389**

Guangming Wang, Quality Engineering Solutions, Inc., presenter
Dennis A. Morian, Quality Engineering Solutions, Inc., presenter
Douglas Frith, Quality Engineering Solutions, Inc., presenter
Hao Wang, Rutgers University, presenter

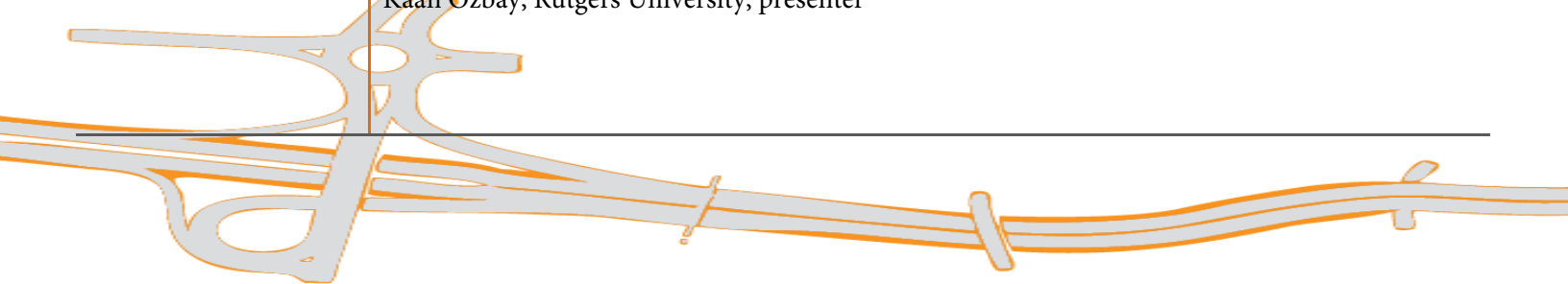
Event Number: Session 382
Event Title: Preparing for MAP-21: Measuring Travel Time and Travel Time Reliability
Event Date: Monday, January 13, 2014 -2:00PM-3:45PM
Event Location: Hilton, International Center.
Presiding Officers: Karl Petty, Iteris, Inc., presiding

Sponsored By: Statewide Transportation Data and Information Systems ([ABJ20](#))
Urban Transportation Data and Information Systems ([ABJ30](#))
Highway Traffic Monitoring ([ABJ35](#))

Description: Because of the recent mandates in MAP-21, there is an increasing interest at the agency level in the accurate measurement and estimation of travel time and travel time reliability. This session covers research into the measurement, modeling, and prediction of travel time and travel time reliability from different sensor sources; methods to detect and filter outlier data; and assessment of overall system data quality.

Presentation (s) **Highway Versus Urban Roads: Analysis of Travel Time and Variability Patterns Based on Facility Type- 14-0768**

M. Anil Yazici, City College of New York, presenter
Camille Kamga, City College of New York, presenter
Kaan Ozbay, Rutgers University, presenter



Virtual Sensors: Web-Based Real-Time Data Collection Methodology for Transportation Operation Performance Analysis- 14-4119

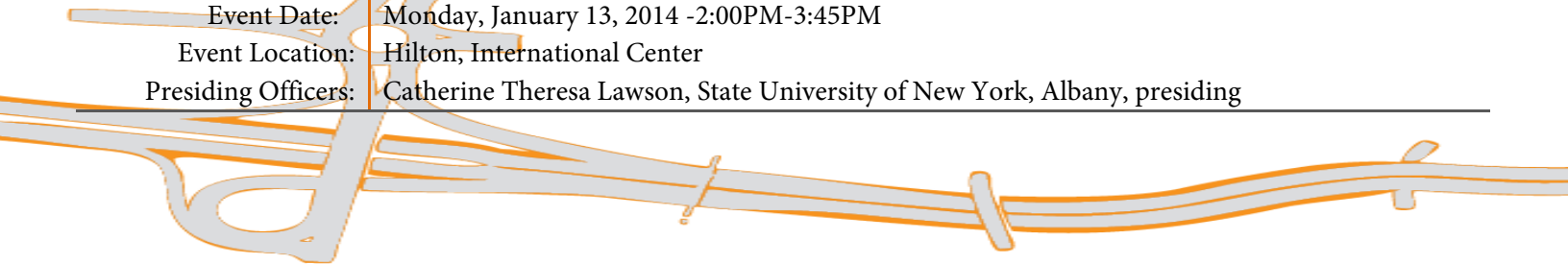
Ender Faruk Morgul, Rutgers University, presenter
Hong Yang, New York University, presenter
Abdullah Kurkcu, Rutgers State University, presenter
Kaan Ozbay, Rutgers University, presenter
Bekir Bartin, Rutgers University, presenter
Camille Kamga, City College of New York, presenter
Richard Salloum, Nokia, presenter

Assessment of Speed Information Based on Probe Vehicle Data: Case Study in New Jersey- 14-4464

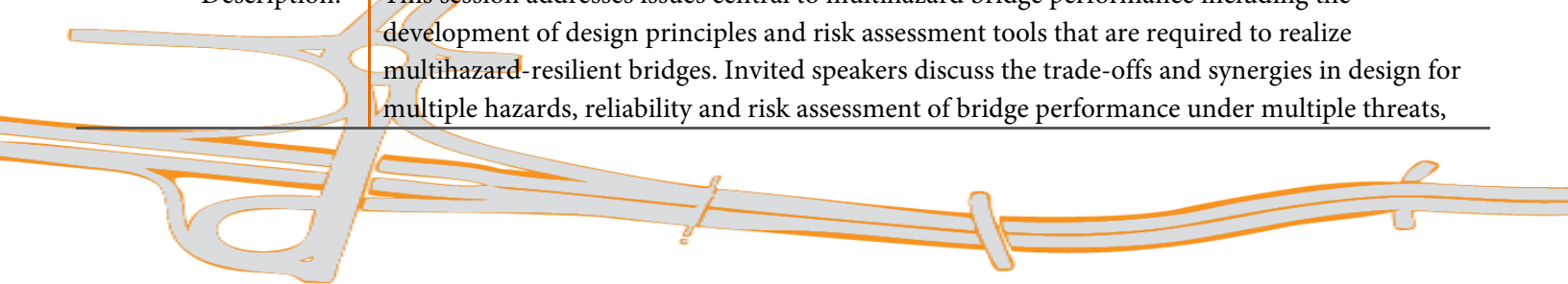
Kitae Kim, New Jersey Institute of Technology, presenter
Dennis Motiani, New Jersey Department of Transportation, presenter
Lazar N. Spasovic, New Jersey Institute of Technology, presenter
Branislav Dimitrijevic, New Jersey Institute of Technology, presenter
Steven I-Jy Chien, New Jersey Institute of Technology, presenter

Event Number:	Session 384
Event Title:	Travel Characteristics Past, Present, and Future: Communicating Information Derived from National Household Travel Survey, Part 2 (Part 1, Session TPS14-031) [13]
Event Date:	Monday, January 13, 2014 -2:00PM-3:45PM
Event Location:	Hilton, International Center
Presiding Officers:	Thera Black, Thurston Regional Planning Council, presiding
Sponsored By:	Task Force on Understanding New Directions for the National Household Travel Survey (ABJ45T)
Description:	Investigation into use of the National Household Travel Survey reveals a wide range of innovative applications of interest to planners, modelers, and researchers. It also points to the need for better communication of the value of this important data set. Part 2 of this two-part series features invited presentations, showcasing not only their resourceful approaches for using NHTS data but also their ability to use visualization tools to effectively communicate the value of these data.
Presentation (s)	Exploring Relationship Between Online Shopping and Shopping Trips: Analysis with 2009 NHTS Data- P14-5921 Xiaokun (Cara) Wang, Rensselaer Polytechnic Institute, presenter Yiwei Zhou, Rensselaer Polytechnic Institute, presenter

Event Number:	Session 385
Event Title:	Urban Transportation Data Frontiers: New Uses and Applications
Event Date:	Monday, January 13, 2014 -2:00PM-3:45PM
Event Location:	Hilton, International Center
Presiding Officers:	Catherine Theresa Lawson, State University of New York, Albany, presiding



Sponsored By:	Statewide Transportation Data and Information Systems (ABJ20) Urban Transportation Data and Information Systems (ABJ30)
Description:	Transportation has always been a data-rich environment. Now technological advances in storage, retrieval, algorithm development, and integration are opening up new lines of research and the development of cutting-edge applications. Topics covered in this poster session include new uses of "big data," rail model calibration, freeway performance analysis, automated bottleneck detection, new approaches to data archiving, uses of the General Transit Feed Specification, and much more.
Presentation (s)	Novel Approach for Analysis of Weather, Signal, and Recurrent Congestion Impacts on Urban Delay- 14-4072 M. Anil Yazici, City College of New York, presenter Camille Kamga, City College of New York, presenter Yohan Urie, Ecole Nationale des Travaux Publics de l'Etat, France, presenter
Event Number:	Session 399
Event Title:	Commodity Flow Survey: Preliminary Data from 2012 Survey, Experiences, and Applications
Event Date:	Monday, January 13, 2014 -3:45PM-5:30PM
Event Location:	Shoreham, Hampton
Presiding Officers:	Donald B. Ludlow, Cambridge Systematics, Inc., presiding
Sponsored By:	Freight Transportation Data (ABJ90)
Description:	This session presents and discusses the preliminary estimates from the 2012 CFS including the weighting methodology employed to produce them. Modifications to the 2012 CFS questionnaire will be discussed as well as future milestones and the expected release dates for upcoming products from the 2012 CFS. The development and possible release of a public use microdata file from the 2012 CFS along with a proposed schedule for the release of data will be presented. Changes that have been undertaken
Presentation (s)	New Uses and Applications of CFS Data- P14-5641 Catherine Theresa Lawson, State University of New York, Albany, presenter
Event Number:	Session 406
Event Title:	Multihazard Assessment and Design of Bridges
Event Date:	Monday, January 13, 2014 -3:45PM-5:30PM
Event Location:	Shoreham, Empire
Presiding Officers:	Jamie Ellen Padgett, Rice University, presiding
Sponsored By:	Structures (AFF00) General Structures (AFF10) Seismic Design and Performance of Bridges (AFF50)
Description:	This session addresses issues central to multihazard bridge performance including the development of design principles and risk assessment tools that are required to realize multihazard-resilient bridges. Invited speakers discuss the trade-offs and synergies in design for multiple hazards, reliability and risk assessment of bridge performance under multiple threats,



and design approaches to achieve performance targets for bridges exposed to multiple hazards throughout their lifetime. This session will address issues central to multi-hazard bridge performance including the development of design principles and risk assessment tools that are required to realize multi-hazard resilient bridges. Bridges may be subjected to multiple hazards throughout their lifetime, requiring structures that can ensure safety not only during operational loads and environmental exposure, but also in the face of extreme events such as earthquakes, hurricanes, floods, or blasts. The hazards may strike jointly or independently, and differ in terms of their frequency of occurrence, impacts on bridge behavior, and design strategies for mitigating damage. Despite these challenges, design and protection from multiple hazards is of paramount concern to provide for public welfare and functionality of bridge and transportation infrastructure.

Presentation (s) **Recent Studies on AASHTO LRFD Extreme Event Design Limit State- P14-5057**
George C. Lee, State University of New York, Buffalo, presenter

Event Number: Session 417
Event Title: Pioneers of Autonomous Driving: Automated Guideway Transit Systems
Event Date: Monday, January 13, 2014 -3:45PM-5:30PM
Event Location: Hilton, Columbia Hall 5
Presiding Officers: Peter J. Muller, PRT Consulting, Inc., presiding
Sponsored By: Automated Transit Systems ([AP040](#))

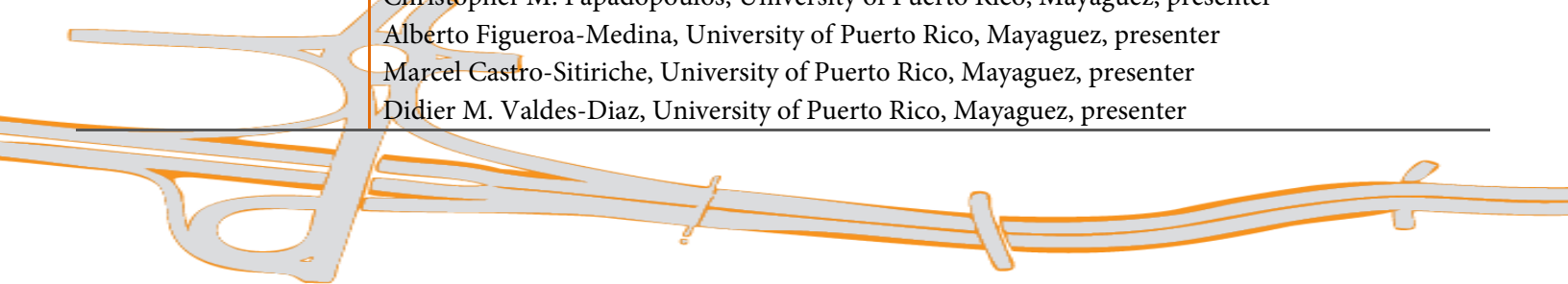
Presentation (s) **Opportunities and Challenges for Automated Transit Systems Research- P14-6850**
Rongfang Liu, New Jersey Institute of Technology, presenter

Event Number: Session 419
Event Title: Well-being and Travel
Event Date: Monday, January 13, 2014 -3:45PM-5:30PM
Event Location: Hilton, Columbia Hall 8
Presiding Officers: Konstadinos G. Goulias, University of California, Santa Barbara, presiding
Sponsored By: Traveler Behavior and Values ([ADB10](#))

Presentation (s) **Are Movers Irrational? On Travel Patterns, Housing, Social Connections, and Happiness Before and After a Move- 14-4691**
Daniel G. Chatman, University of California, Berkeley, presenter

Event Number: Session 421
Event Title: Innovative Applications of Highway Capacity Manual 2010 Methodologies (12)
Event Date: Monday, January 13, 2014 -4:15PM-6:00PM
Event Location: Marriott, Salon 2
Presiding Officers: Manuel G. Romana, Technical University of Madrid, Spain, presiding
Zong Z. Tian, University of Nevada, Reno, presiding
Rod J. Troutbeck, Queensland University of Technology, Australia, presiding
Lily Elefteriadou, University of Florida, presiding

Sponsored By:	Highway Capacity and Quality of Service (AHB40)
Presentation (s)	Lane Utilization at Two-Lane Arterial Approaches to Double Crossover Diamond Interchanges- 14-2913** Chunho Yeom, North Carolina State University, Raleigh, presenter Bastian J. Schroeder, North Carolina State University, Raleigh, presenter Christopher M. Cunningham, North Carolina State University, Raleigh, presenter Chris Vaughan, North Carolina State University, Raleigh, presenter Nagui M. Roupail, North Carolina State University, Raleigh, presenter Joseph E. Hummer, Wayne State University, presenter
Event Number:	Session 423
Event Title:	Methods for Field Assessment and Evaluation of Driving Behavior and Roadway Safety Systems
Event Date	Monday, January 13, 2014 -4:15PM-6:00PM
Event Location:	Marriott, Salon 2
Presiding Officers:	Timothy Jordan Gates, Wayne State University, presiding
Sponsored By:	Traffic Control Devices (AHB50) Vehicle User Characteristics (AND10) Visibility (AND40)
Description:	The papers in this poster session focus on different methods for assessing roadway safety systems such as lighting or active traffic control devices and for measuring safety-related driving behavior.
Presentation (s)	Preliminary Evaluation of Dynamic Speed Displays with Conditional Messaging- 14-1752 John D. Bullough, Rensselaer Polytechnic Institute, presenter Jennifer A. Brons, Rensselaer Polytechnic Institute, presenter Nicholas P. Skinner, Rensselaer Polytechnic Institute, presenter
Event Number:	Session 432
Event Title:	Public Involvement in Transportation
Event Date:	Monday, January 13, 2014 -4:15PM-6:00PM
Event Location:	Hilton, International Center
Presiding Officers:	Dianne Kresich, Arizona Department of Transportation, presiding
Sponsored By:	Public Involvement in Transportation (ADA60)
Description:	This poster session highlights best practices, new technologies, and lessons learned; builds awareness and skills; and advances the state of the art in public involvement in multimodal transportation.
Presentation (s)	Embedding Community Preferences in Visualizations: Case Study of Context-Sensitive Design in Puerto Rico- 14-5524 Davis Chacon-Hurtado, University of Puerto Rico, Mayaguez, presenter Christopher M. Papadopoulos, University of Puerto Rico, Mayaguez, presenter Alberto Figueroa-Medina, University of Puerto Rico, Mayaguez, presenter Marcel Castro-Sitiriche, University of Puerto Rico, Mayaguez, presenter Didier M. Valdes-Diaz, University of Puerto Rico, Mayaguez, presenter



Event Number: Session 447
Event Title: New Research Enabling Decisions to Enhance Safety in Work Zones
Event Date: Monday, January 13, 2014 -7:30PM-9:30PM
Event Location: Marriott, Thurgood Marshall North
Presiding Officers: Wade Odell, Texas Department of Transportation, presiding
Sponsored By: Work Zone Traffic Control ([AHB55](#))

Presentation (s) **Estimating the Impact of Work Zones on Highway Safety- 14-1873**

Ozgun Ozturk, Rutgers University, presenter
Kaan Ozbay, Rutgers University, presenter
Hong Yang, New York University, presenter

Work Zone Safety Analysis and Modeling: State-of-the-Art Review- 14-1692

Hong Yang, New York University, presenter
Ozgun Ozturk, Rutgers University, presenter
Kaan Ozbay, Rutgers University, presenter
Kun Xie, New York University, presenter

Event Number: Session 448
Event Title: Nondestructive Evaluation of Bridge Decks
Event Date: Monday, January 13, 2014 -7:30PM-9:30PM
Event Location: Marriott, Virginia A
Presiding Officers: Shane D Boone, Federal Highway Administration, presiding
Sponsored By: Field Testing and Nondestructive Evaluation (NDE) of Transportation Structures ([AFF40](#))

Presentation (s) **Characterizing Surface-Breaking Crack in Concrete Bridge Decks Using Surface Wave Measurements- 14-3944**

Nenad Gucunski, Rutgers University, presenter
Seong-Hoon Kee, Rutgers University, presenter

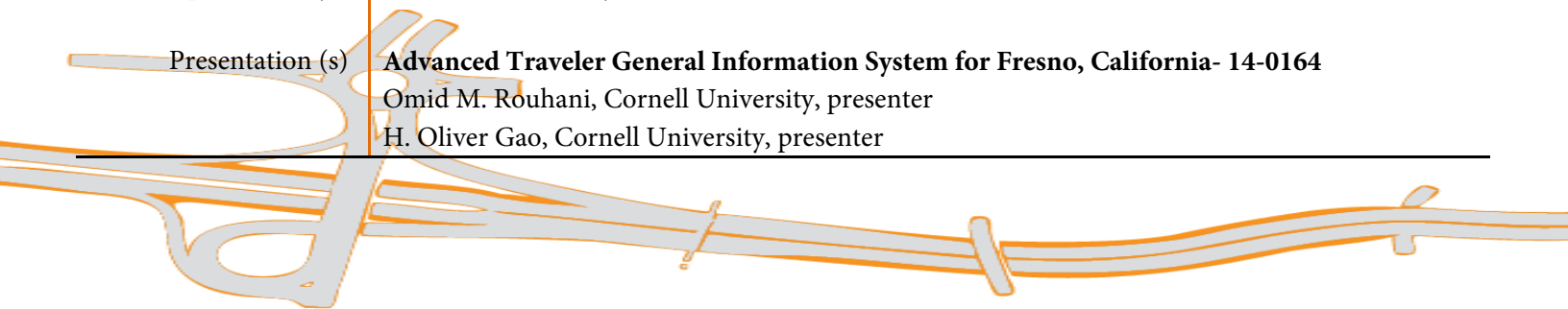
Field Monitoring of Rebar Debonding in Concrete Bridge Decks Under Traffic-Induced Vibrations- 14-5334

Miguel Beltran, Rutgers University, presenter
Hani H. Nassif, Rutgers University, presenter

Event Number: Session 452
Event Title: Recent Research Results from User Information Studies
Event Date: Monday, January 13, 2014 -7:30PM-9:30PM
Event Location: Marriott, Salon 2
Presiding Officers: Bryan Katz, Science Applications International Corporation, presiding
Sponsored By: User Information Systems ([AND20](#))

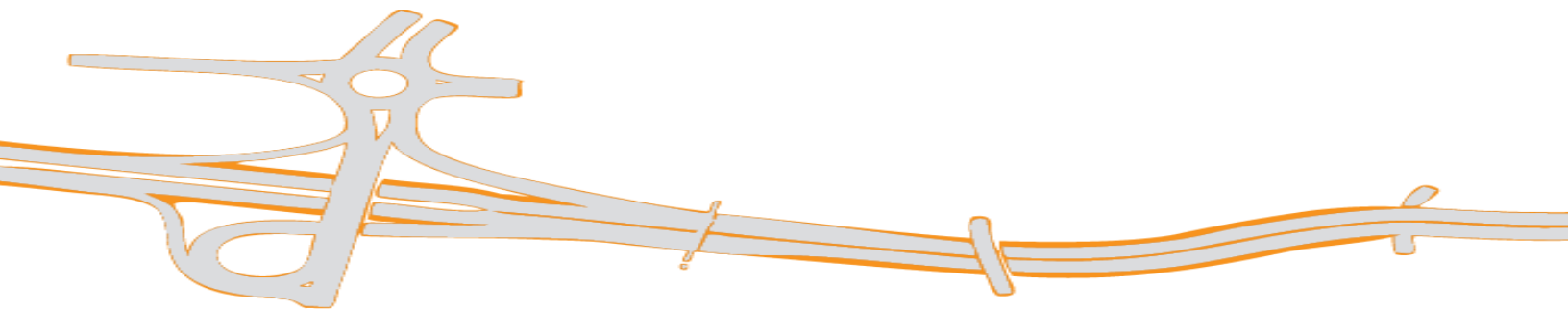
Presentation (s) **Advanced Traveler General Information System for Fresno, California- 14-0164**

Omid M. Rouhani, Cornell University, presenter
H. Oliver Gao, Cornell University, presenter



Event Number:	Session 467
Event Title:	Digging into Paratransit Data and Policies
Event Date:	Monday, January 13, 2014 -7:30PM-9:30PM
Event Location:	Marriott, Salon 2
Presiding Officers:	Celeste Chavis, Morgan State University, presiding
Sponsored By:	Paratransit (AP060)
Presentation(s)	Generators of Paratransit Trips by Persons with Disabilities- 14-2190 Devajyoti Deka, Rutgers University, presenter Eric J. Gonzales, Rutgers University, presenter Characterizing Urban Dynamics Using Large-Scale Taxicab Data- 14-5301** Xinwu Qian, Purdue University, presenter Xianyuan Zhan, Purdue University, presenter Satish V. Ukkusuri, Purdue University, presenter

Event Number:	Session 472
Event Title:	Parking Tension: Perceived Neighborhood Benefits Versus Citywide Benefits
Event Date:	Monday, January 13, 2014 -7:30PM-9:30PM
Event Location:	Hilton, International East
Presiding Officers:	Rachel R. Weinberger, Nelson\Nygaard Consulting Associates, presiding
Sponsored By:	Transportation Demand Management (ABE50) Parking Management (ABE50(1))



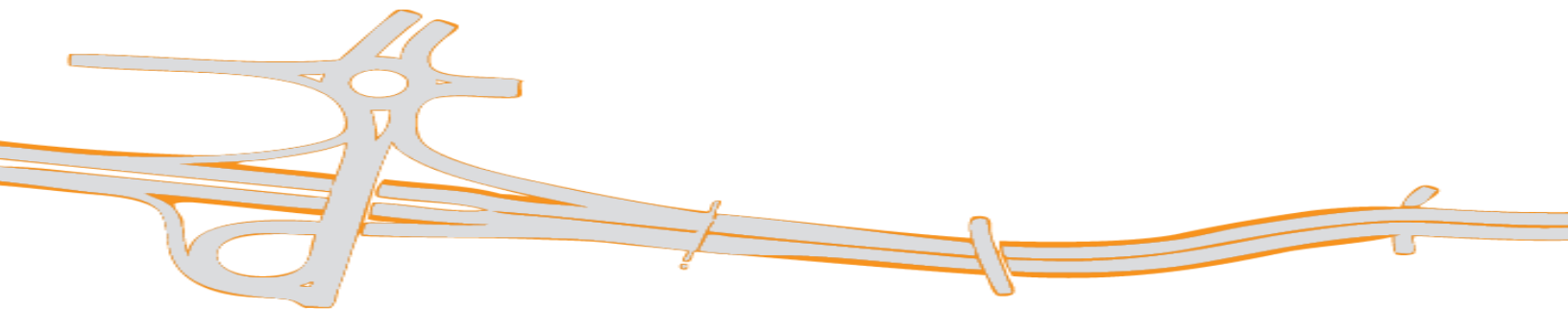
Tuesday, January 14, 2014

Event Title: Advanced Traveler Information Systems (ATIS) Joint Subcommittee of AND20, AHB15
Event Date: Tuesday, January 14, 2014 - 8:00AM-9:45AM
Event Location: Marriott, Park Tower Suite 8216
Presiding Officers: Asad J. Khattak, University of Tennessee, Knoxville, presiding
Sponsored By: Jeffrey Adler, Open Roads Consulting, Inc., presiding
User Information Systems ([AND20](#))

Event Number: Session 478
Event Title: Application of Asphalt Mix Performance-Based Specifications
Event Date: Tuesday, January 14, 2014 - 8:00AM-9:45AM
Event Location: Marriott, Salon 1
Presiding Officers: Frank Fee, Asphalt Pavement Technology, LLC, presiding
Sponsored By: General Issues in Asphalt Technology ([AFK10](#))
Characteristics of Asphalt-Aggregate Combinations to Meet Surface Requirements ([AFK40](#))
Characteristics of Asphalt Paving Mixtures to Meet Structural Requirements ([AFK50](#))

Description: This session illustrates performance-based specifications (PBS), which are currently being used by various agencies. It will provide a review of the concepts behind the development of PBS as well as their application on field projects. In addition to laboratory results, it will also contain data on pavement performance as well as discussion about the interaction between the agency, the suppliers, and the contractor that was required to complete a successful project.

Presentation (s) **Implementation of Performance-Based Specifications for Asphalt Mix Design and Production Quality Control- P14-5083**
Thomas A. Bennert, Rutgers University, presenter



Event Number: Session 488
Event Title: Topics in the Design of Concrete Bridges
Event Date: Tuesday, January 14, 2014 - 8:00AM-9:45AM
Event Location: Marriott, Maryland A
Presiding Officers: Carin Roberts-Wollmann, Virginia Polytechnic Institute and State University, presiding
Sponsored By: Concrete Bridges ([AFF30](#))

Presentation (s) **Development of Concrete Bridge Data Schema for Interoperability- 14-5436**

Najaf Ali, State University of New York, Buffalo, presenter
Stuart S. Chen, State University of New York, Buffalo, presenter
Rohit Srikonda, State University of New York, Buffalo, presenter
Hanjin Hu, State University of New York, Buffalo, presenter

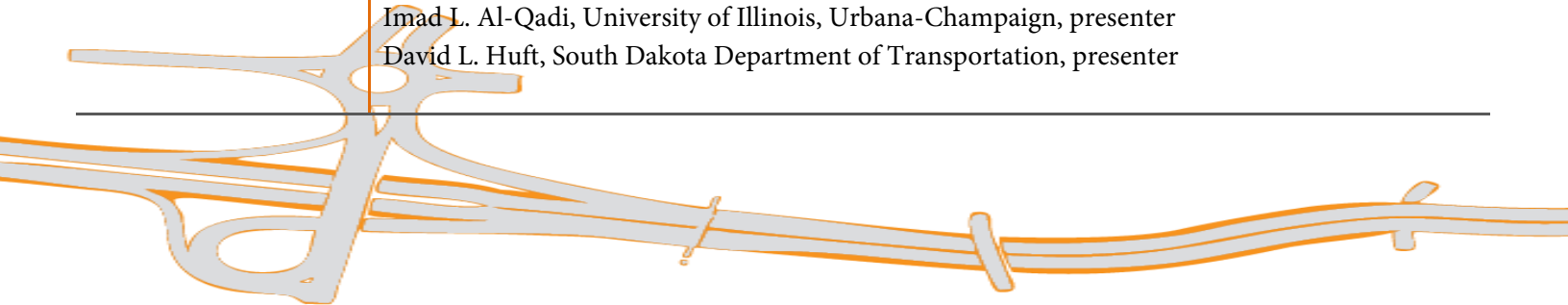
Event Number: Session 492
Event Title: Freight Day, Part 1: How Will Industry Reinvent the Supply Chain Given Capacity Constraints, Reliability Demands, and Shipper Cost Concerns? (Part 2, Session 544; Part 3, Session 593; Part 4, Session 658)
Event Date: Tuesday, January 14, 2014 - 8:00AM-9:45AM
Event Location: Shoreham, Blue Room
Presiding Officers: Thomas H. Wakeman, Stevens Institute of Technology, presiding
Sponsored By: Freight Systems ([AT000](#))
Marine ([AW000](#))
Ports and Channels ([AW010](#))

Event Number: Session 493
Event Title: Impacts of Tire and Truck Loads on Pavement Performance
Event Date: Tuesday, January 14, 2014 - 8:00AM-9:45AM
Event Location: Shoreham, Regency Ballroom
Presiding Officers: Daba Shabara Gedafa, University of North Dakota, presiding
Sponsored By: Flexible Pavement Design ([AFD60](#))

Description: Vehicle and tire loading has long been recognized as a primary factor in pavement distress development and eventual failure. This session discusses research focused on tire loading models, influence of tire inflation pressure, and tire configurations. In addition, traffic models for the "Mechanistic-Empirical Pavement Design Guide" utilizing data from Poland will be presented.

Presentation (s) **Pavement-Dependent Load Limits: Case Study in South Dakota for Different Tire Configurations- 14-3312**

Hao Wang, Rutgers University, presenter
Imad L. Al-Qadi, University of Illinois, Urbana-Champaign, presenter
David L. Huft, South Dakota Department of Transportation, presenter



Event Number: Session 502
Event Title: Congestion and Reliability Measurement and Management
Event Date: Tuesday, January 14, 2014 - 8:00AM-9:45AM
Event Location: Hilton, Georgetown West
Presiding Officers: Joe Crossett, High Street Consulting Group, LLC, presiding
Sponsored By: Performance Measurement ([ABC30](#))

Presentation (s) **Spatially Referenced Probe Data Performance Measures for Infrastructure Investment Decision Makers- 14-1062****

Stephen Matthew Remias, Purdue University, presenter
Thomas M. Brennan, College of New Jersey, presenter
Christopher M. Day, Purdue University, presenter
Hayley Summers, Purdue University, presenter
Deborah K. Horton, Purdue University, presenter
Edward D Cox, Indiana Department of Transportation, presenter
Darcy M. Bullock, Purdue University, presenter

Event Number Session 510
Event Title: Transportation Network Optimization and Design
Event Date: Tuesday, January 14, 2014 - 8:00AM-9:45AM
Event Location: Hilton, Columbia Hall 4
Presiding Officers: Miguel Figliozzi, Portland State University, presiding
Sponsored By: Transportation Network Modeling ([ADB30](#))

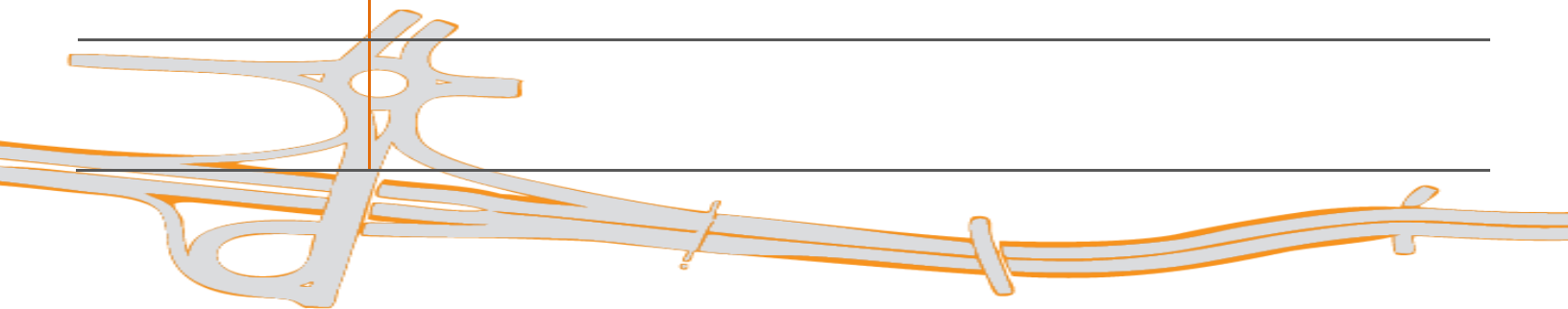
Presentation (s) **Time-Dependent Freight Tour Synthesis Model- 14-2005**

Ivan Sanchez-Diaz, Rensselaer Polytechnic Institute, presenter
Jose Holguín-Veras, Rensselaer Polytechnic Institute, presenter
Xuegang (Jeff) Ban, Rensselaer Polytechnic Institute, presenter

Event Number: Session 516
Event Title: Traffic Signals for Multimodal Systems
Event Date: Tuesday, January 14, 2014 - 8:30AM-10:15AM
Event Location: Marriott, Salon 2
Presiding Officers: Anuj Sharma, University of Nebraska, Lincoln, presiding
Sponsored By: Traffic Signal Systems ([AHB25](#))

Presentation (s) **Performance Measures of Manual Multimodal Traffic Signal Control- 14-3299**

Nan Ding, State University of New York, Buffalo, presenter
Qing He, State University of New York, Buffalo, presenter
Changxu Wu, State University of New York, Buffalo, presenter



Event Number:	Session 518
Event Title:	Weather Impacts in Surface Transportation
Event Date:	Tuesday, January 14, 2014 - 8:30AM-10:15AM
Event Location:	Marriott, Salon 2
Presiding Officers:	Wilfrid A. Nixon, University of Iowa, presiding
Sponsored By:	Surface Transportation Weather (AH010)
Presentation (s)	Optimizing Road Weather Information System Sites Considering Traffic and Regional Weather Conditions- 14-1360 Lihui Zhao, New Jersey Institute of Technology, presenter I-Jy Chien, New Jersey Institute of Technology, presenter
Event Number:	Session 520
Event Title:	Current Research in Freight Transportation and Logistics Planning and Operations, Part 1 (Part 2, Session 568)
Event Date:	Tuesday, January 14, 2014 - 8:30AM-10:15AM
Event Location:	Shoreham, Blue Room Foyer
Presiding Officers:	Joseph Y. J. Chow, Ryerson University, Canada, presiding Kai Yin, Texas A&M University, presiding
Sponsored By:	Freight Transportation Planning and Logistics (AT015)
Description:	This session exhibits papers in the general area of freight and logistics planning and operations dealing with efficiency, sustainability, and reliability. It spans topics from urban freight mobility, intermodal transportation, port and marine operations, and freight demand modeling to location problems of alternative energy production.
Presentation (s)	Area-Based Freight Trip Generation Models- 14-4908** Miguel Jaller, Rensselaer Polytechnic Institute, presenter Ivan Sanchez-Diaz, Rensselaer Polytechnic Institute, presenter Jose Holguín-Veras, Rensselaer Polytechnic Institute, presenter Catherine Theresa Lawson, State University of New York, Albany, presenter Freight Tour Synthesis and Influence of Sampling Procedures- 14-4820 Carlos Alberto Gonzalez-Calderon, Rensselaer Polytechnic Institute, presenter Jose Holguín-Veras, Rensselaer Polytechnic Institute, presenter
Event Number:	Session 521
Event Title:	Trucking Industry Research
Event Date:	Tuesday, January 14, 2014 - 8:30AM-10:15AM
Event Location:	Shoreham, Blue Room Foyer
Presiding Officers:	Michael C. Smith, University of Virginia, presiding
Sponsored By:	Trucking Industry Research (AT060)
Presentation (s)	A Preliminary Assessment Of Benefits And Costs Of Mandated Truck Driver Training: The European Union Truck Driver Certificate Of Professional Competence (Cpc)- 14-2455 Cameron Elliott Gordon, University of Canberra, Australia, presenter

Event Number: Session 523
Event Title: Bicyclists, Behavior, and Attitudes
Event Date: Tuesday, January 14, 2014 - 8:30AM-10:15AM
Event Location: Hilton, International Center
Presiding Officers: Ralph Buehler, Virginia Polytechnic Institute and State University, presiding
Sponsored By: Bicycle Transportation ([ANF20](#))

Event Number: Session 524
Event Title: Bike-sharing
Event Date: Tuesday, January 14, 2014 - 8:30AM-10:15AM
Event Location: Hilton, International Center
Presiding Officers: Matthew Ridgway, Fehr & Peers, presiding
Sponsored By: Bicycle Transportation ([ANF20](#))

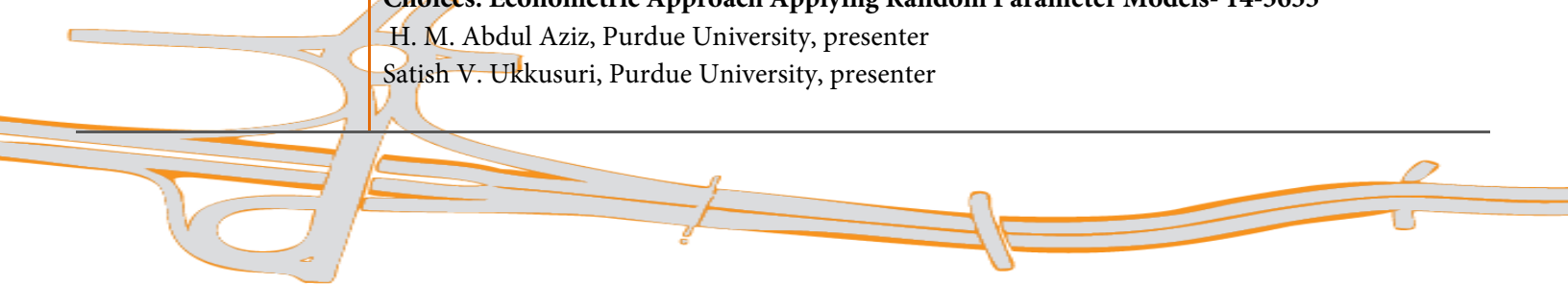
Presentation (s) **Metaheuristic Approach for Repositioning Bicycles in a Public Bike-Sharing System- 14-3628**
Binh Luong, Purdue University, presenter
Pulkit Parikh, Purdue University, presenter
Satish V. Ukkusuri, Purdue University, presenter

Event Number: Session 528
Event Title: Transportation Energy and Climate Change
Event Date: Tuesday, January 14, 2014 - 8:30AM-10:15AM
Event Location: Hilton, International Center
Presiding Officers: Lewison Lee Lem, Jack Faucett Associates, Inc., presiding
Sponsored By: Transportation Energy ([ADC70](#))

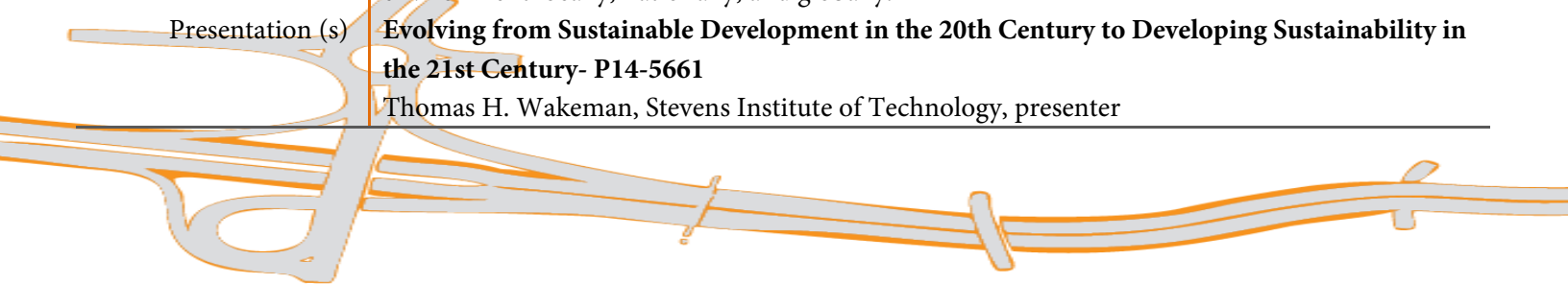
Presentation (s) **Life-Cycle Greenhouse Gas Emissions Associated with Construction of Commuter Rail Projects- 14-0350****
Christopher Hanson, Rutgers University, presenter
Robert B. Noland, Rutgers University, presenter
Christopher D. Porter, Cambridge Systematics, Inc., presenter

Achieving Reductions in Greenhouse Gases in the U.S. Road Transportation Sector- 14-2948
Andrew I. Kay, Rutgers University, presenter
Robert B. Noland, Rutgers University, presenter
Caroline Jane Rodier, University of California, Davis, presenter

Exploring Trade-off Between GHG Emissions and Travel Time in Daily Transport-Related Choices: Econometric Approach Applying Random Parameter Models- 14-3635
H. M. Abdul Aziz, Purdue University, presenter
Satish V. Ukkusuri, Purdue University, presenter



<p>Event Title: Event Date: Event Location: Presiding Officers: Sponsored By:</p>	<p>Intercity Passenger Rail Committee Tuesday, January 14, 2014 - 10:15AM-12:00PM Shoreham, Governors David P. Simpson, David P. Simpson Consultants, LLC, presiding Intercity Passenger Rail (AR010)</p>
<p>Event Title: Event Date: Event Location: Presiding Officers: Sponsored By:</p>	<p>Parking Management Joint Subcommittee of ABE50, ABE20, ABE25, AP020 Tuesday, January 14, 2014 - 10:15AM-12:00PM Hilton, Morgan Rachel R. Weinberger, Nelson\Nygaard Consulting Associates, presiding Transportation Economics (ABE20) Transportation Demand Management (ABE50) Emerging and Innovative Public Transport and Technologies (AP020) Congestion Pricing (ABE25)</p>
<p>Event Number: Event Title: Event Date: Event Location: Presiding Officers: Sponsored By: Description: Presentation (s)</p>	<p>Session 539 Sustainability: 20 Years in the Past and 20 Years in the Future Tuesday, January 14, 2014 - 10:15AM-12:00PM Marriott, Thurgood Marshall North Mohammad Shamim Khan, Professional Service Industries, Inc., presiding Policy and Organization (AB000) Planning and Environment (AD000) Design and Construction (AF000) Public Transportation (AP000) Aviation (AV000) Marine (AW000) Young Members Council (YMC) (A0040T) It was just about 20 years ago when the conversation on sustainability started and about 10 years ago when these conversations became serious and believable, particularly in the context of transportation infrastructure. U.S. infrastructure developments must not be at the expense of the surrounding environment. The objective of this session is to identify the direction in which the design and construction industry should be going to during the next two decades to achieve sustainable development. Both public and private organizations have embraced the concept of sustainability and introduced and implemented numerous programs that would serve as the foundation of a strong sustainable development. The concept of sustainability is holistic and cross-modal. It starts with a sound and visionary planning, moves to a well thought and responsible design, including the selection of high performance materials, adoption of innovative construction procedures and techniques, and then smartly connecting the built environment locally, nationally, and globally. Evolving from Sustainable Development in the 20th Century to Developing Sustainability in the 21st Century- P14-5661 Thomas H. Wakeman, Stevens Institute of Technology, presenter</p>



Event Number: Session 559
Event Title: Using Social Media to Improve Urban Transportation
Event Date: Tuesday, January 14, 2014 - 10:15AM-12:00PM
Event Location: Hilton, International East
Presiding Officers: Karina Ricks, Nelson\Nygaard Consulting Associates, presiding
Sponsored By: Transportation Issues in Major U.S. Cities ([ABE30](#))
Public Transportation Marketing and Fare Policy ([AP030](#))

Presentation (s) **What's the Worst That Can Happen? Developing Social Media Protocols and Policies- 14-3769****

Susan Bregman, Oak Square Resources, LLC, presenter
Sarah Kaufman, New York University, presenter

Event Number: Session 561
Event Title: What's It Worth? New Findings on How Transportation Investments Affect Property Values
Event Date: Tuesday, January 14, 2014 - 10:15AM-12:00PM
Event Location: Hilton, Jefferson East
Presiding Officers: Samuel N. Seskin, CH2M Hill, presiding
Sponsored By: Transportation and Land Development ([ADD30](#))

Description: What do we know about how accessibility influences property values? This session provides a synthesis of knowledge about these impacts with an emphasis on transit and transit-oriented development. The presentation will be followed by three papers that together explore the value benefits of light rail, commuter rail, highway, and pedestrian mode accessibility. These findings may aid practitioners in evaluating project benefits and furnish data to support investigations into innovative finance.

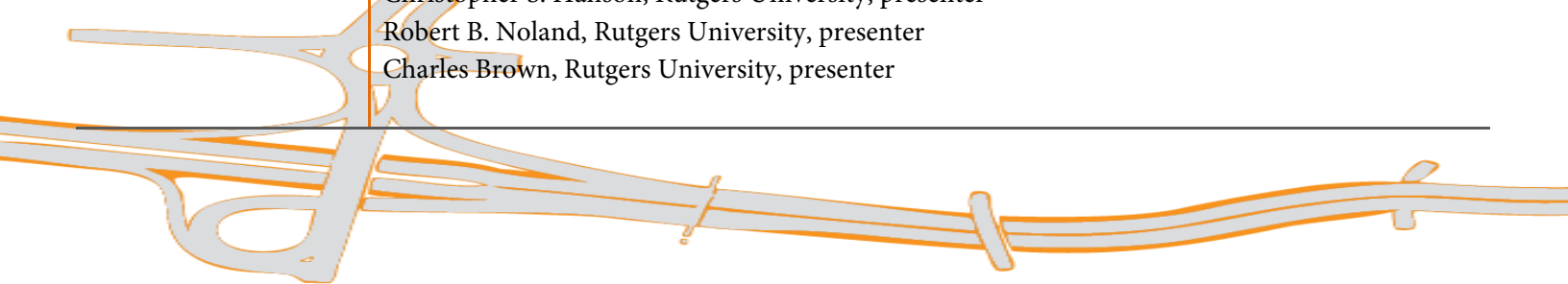
Presentation (s) **Residential Property Valuations near Transit Stations with Transit-Oriented Development- 14-2237**

Andrew I. Kay, Rutgers University, presenter
Robert B. Noland, Rutgers University, presenter
Stephanie DiPetrillo, Rutgers University, presenter

Event Number: Session 564
Event Title: Innovative Pedestrian Analysis Methods
Event Date: Tuesday, January 14, 2014 - 10:45AM-12:30PM
Event Location: Marriott, Salon 2
Presiding Officers: Shawn M. Turner, Texas A&M Transportation Institute , presiding
Sponsored By: Pedestrians ([ANF10](#))

Presentation (s) **Severity of Pedestrian Crashes: Analysis Using Google Street View Imagery- 14-2640**

Christopher S. Hanson, Rutgers University, presenter
Robert B. Noland, Rutgers University, presenter
Charles Brown, Rutgers University, presenter



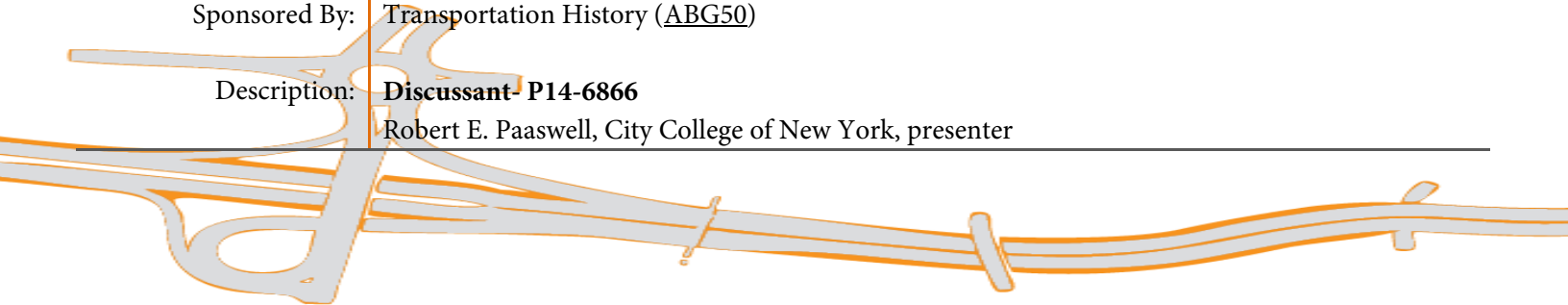
Event Number:	Session 565
Event Title:	Innovative Traffic Signal Control Algorithms and Signal Designs (23)
Event Date:	Tuesday, January 14, 2014 - 10:45AM-12:30PM
Event Location:	Marriott, Salon 2
Presiding Officers:	Peter J .V. Koonce, City of Portland, Oregon, presiding
Sponsored By:	Traffic Signal Systems (AHB25)
Presentation (s)	Dynamic Bandwidth Analysis and Optimization for Coordinated Arterial Streets- 14-0387 SangKey Kim, North Carolina State University, Raleigh, presenter Ali Hajbabaie, North Carolina State University, Raleigh, presenter Billy M. Williams, North Carolina State University, Raleigh, presenter Nagui M. Roupail, North Carolina State University, Raleigh, presenter

Event Number:	Session 568
Event Title:	Current Research in Freight Transportation and Logistics Planning and Operations, Part 2 (Part 1, Session 520)
Event Date:	Tuesday, January 14, 2014 - 10:45AM-12:30PM
Event Location:	Shoreham, Blue Room Foyer
Presiding Officers:	Wen Wang, Texas A&M University, presiding
Sponsored By:	Freight Transportation Planning and Logistics (AT015)
Presentation (s)	Freight Trip Attraction, Freight Trip Production, and Role of Freight Intermediaries- 14-4882 Miguel Jaller, Rensselaer Polytechnic Institute, presenter Ivan Sanchez-Diaz, Rensselaer Polytechnic Institute, presenter Jose Holguín-Veras, Rensselaer Polytechnic Institute, presenter

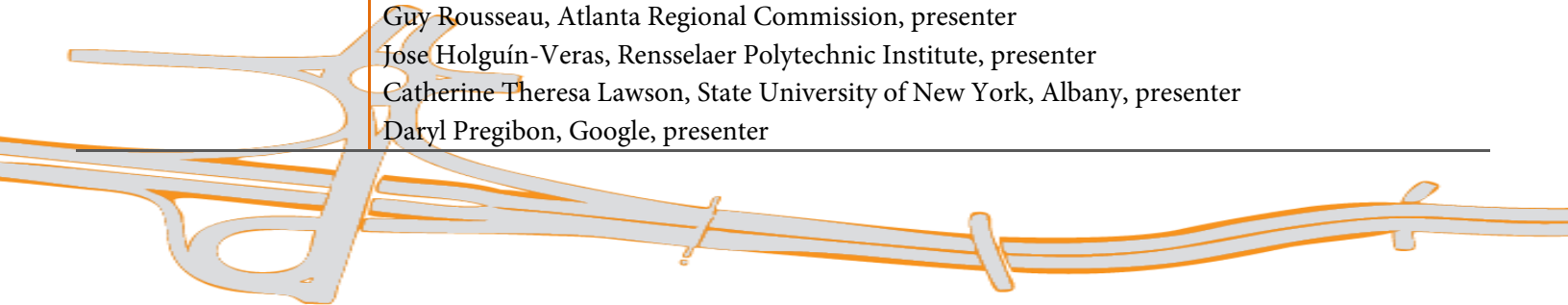
Event Number:	Session 583
Event Title:	Measuring Effectiveness of Pavement Maintenance and Preservation, Part 1 (Part 2, Session 646)
Event Date:	Tuesday, January 14, 2014 - 1:30PM-3:15PM
Event Location:	Marriott, Thurgood Marshall North
Presiding Officers:	Dominique Pittenger, University of Oklahoma, Norman, presiding
Sponsored By:	Pavement Maintenance (AHD20) Pavement Preservation (AHD18)
Presentation (s)	Evaluation of Noise Related to Pavement Preservation Surfaces in New Jersey- 14-5224 John Robert Hencken, Rutgers University, presenter Edwin Henry Haas, Rutgers University, presenter Michael Tulanowski, Rutgers University, presenter Thomas A. Bennert, Rutgers University, presenter



Event Number:	Session 593
Event Title:	Freight Day, Part 3: Road Map to Significant Reduction of Freight-Related Energy Consumption and Emissions (Part 1, Session 492; Part 2, Session 544; Part 4, Session 658)
Event Date:	Tuesday, January 14, 2014 - 1:30PM-3:15PM
Event Location:	Shoreham, Blue Room
Presiding Officers:	Michael S. Bomba, University of North Texas, presiding
Sponsored By:	Ferry Transportation (AP085) Freight Systems (AT000) International Trade and Transportation (AT020) Agricultural Transportation (AT030) Marine (AW000)
Presentation (s)	Natural Gas vs. Conventional Fuel for Waterborne Freight Transport: A Life Cycle Emissions Assessment with Case Studies- P14-5700 James J. Winebrake, Rochester Institute of Technology, presenter James J. Corbett, University of Delaware, presenter Heather Thomson, University of Delaware, presenter
Event Number:	Session 600
Event Title:	Artificial Intelligence Tools for Freeway Applications
Event Date:	Tuesday, January 14, 2014 - 1:30PM-3:15PM
Event Location:	Hilton, Lincoln East
Presiding Officers:	Sherif Ishak, Louisiana State University, presiding
Sponsored By:	Artificial Intelligence and Advanced Computing Applications (ABI70)
Description:	This session presents advanced AI approaches developed to address and solve operation, control, and safety problems on freeways, including the use of reinforced learning to improve ramp metering control in the city of Toronto, adaptive boosting machine learning to predict congestion on I-5 in Oregon, hybrid empirical mode decomposition and ARIMA approach to predict freeway speed, Bayesian networks for incident duration prediction, and the AdaBoost support vector machine to evaluate crash risk.
Presentation (s)	Adaptive Learning in Bayesian Networks for Incident Duration Prediction- 14-5139 Sami Demiroglu, Rutgers University, presenter Kaan Ozbay, Rutgers University, presenter
Event Number:	Session 602
Event Title:	History of the New York Metropolitan Transportation Authority
Event Date:	Tuesday, January 14, 2014 - 1:30PM-3:15PM
Event Location:	Hilton, Georgetown East
Presiding Officers:	Emil H. Frankel, Bipartisan Policy Center, presiding
Sponsored By:	Transportation History (ABG50)
Description:	Discussant- P14-6866 Robert E. Paaswell, City College of New York, presenter



Event Number:	Session 603
Event Title:	How Does Gender Influence Travel Attitudes, Patterns, and Perspectives on Crime?
Event Date:	Tuesday, January 14, 2014 - 2014 1:30PM - 3:15PM
Event Location:	Hilton, Columbia Hall 7 Lectern Session AICP Certification Maintenance Session Policy, Public Transportation, Safety and Human Factors
Presiding Officers:	Dawn Spanhake, University of Minnesota, presiding
Sponsored By:	Women's Issues in Transportation (ABE70)
Presentation (s)	What Explains the Gender Gap in Schlepping? Testing Various Explanations for Gender Differences in Household-Serving Travel- 14-4489 Brian D. Taylor, University of California, Los Angeles, presenter Kelcie Ralph, University of California, Los Angeles, presenter Michael Smart, Rutgers University, presenter
Event Number:	Session 610
Event Title:	Impact and Implications of Autonomous Driving on Automated Transit Systems
Event Date:	Tuesday, January 14, 2014 - 1:30PM-3:15PM
Event Location:	Hilton, Columbia Hall 8
Presiding Officers:	Rongfang Liu, New Jersey Institute of Technology, presiding
Sponsored By:	Automated Transit Systems (AP040)
Presentation (s)	Application of Autonomous Driving Technology to Transit: Functional Capabilities for Safety and Capacity- 14-0207 Jerome M. Lutin, NJ Transit (Retired), presenter Alain L. Kornhauser, Princeton University, presenter
Event Number:	Session 611
Event Title:	Transportation Data: Our Legacy and Our Future, Part 2: The Future (Part 1, Session 558)
Event Date:	Tuesday, January 14, 2014 - 1:30PM-3:15PM
Event Location:	Hilton, Columbia Hall 5
Presiding Officers:	Steven E. Polzin, University of South Florida, presiding
Sponsored By:	Data and Information Systems (ABI00)
Description:	Our future data programs face tight budgets, concerns about data privacy, and special interest politics. Coupled with these problems are the growing demands for timely performance metrics and quality visual information. Will advances in information technology be the panacea? Will future generations care less about privacy than we do now? These are just a few questions that a panel of experts working at the cutting edge of tomorrow's data will address.
Presentation (s)	Our Data Future- P14-5165 Johanna P. Zmud, RAND Corporation, presenter Guy Rousseau, Atlanta Regional Commission, presenter Jose Holguín-Veras, Rensselaer Polytechnic Institute, presenter Catherine Theresa Lawson, State University of New York, Albany, presenter Daryl Pregibon, Google, presenter



Event Number: Session 623
Event Title: Testing and Modeling of Asphalt Concrete Mixtures, Part 1 (Part 2, Session 684)
Event Date: Tuesday, January 14, 2014 - 2:00PM-3:45PM
Event Location: Marriott, Salon 2
Presiding Officers: Roberto Soares, PSI Technologies, Inc., Canada, presiding
Sponsored By: Characteristics of Asphalt Paving Mixtures to Meet Structural Requirements ([AFK50](#))

Presentation (s) **Development of a New Test Method for Evaluating Fatigue Behavior of Asphalt Mixtures Under Tension-Compression Loading Mode- 14-0604**
Zhesheng Ge, South China University of Technology, presenter
Hao Wang, Rutgers University, presenter
Yangyang Wang, South China University of Technology, presenter
Xiaoqian Hu, South China University of Technology, presenter

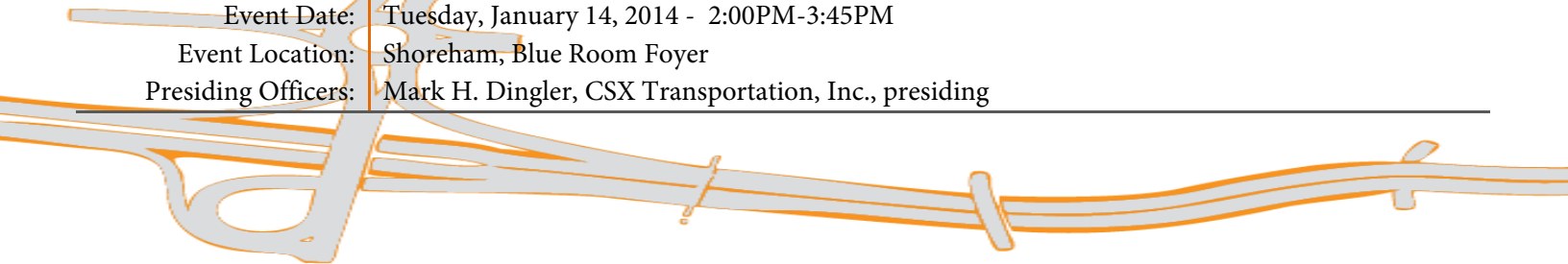
Event Number: Session 624
Event Title: Warm-Mix Asphalt
Event Date: Tuesday, January 14, 2014 - 2:00PM-3:45PM
Event Location: Marriott, Salon 2
Presiding Officers: Matthew R. Corrigan, Federal Highway Administration, presiding
Sponsored By: Characteristics of Nonasphalt Components of Asphalt Paving Mixtures ([AFK30](#))

Presentation (s) **Comparison of Field Aging Characteristics of Warm-Mix Asphalt- 14-3293**
Shih-Hsien Yang, National Cheng Kung University, Taiwan, presenter
Hao Wang, Rutgers University, presenter
Anthony Keita, National Cheng Kung University, Taiwan, presenter

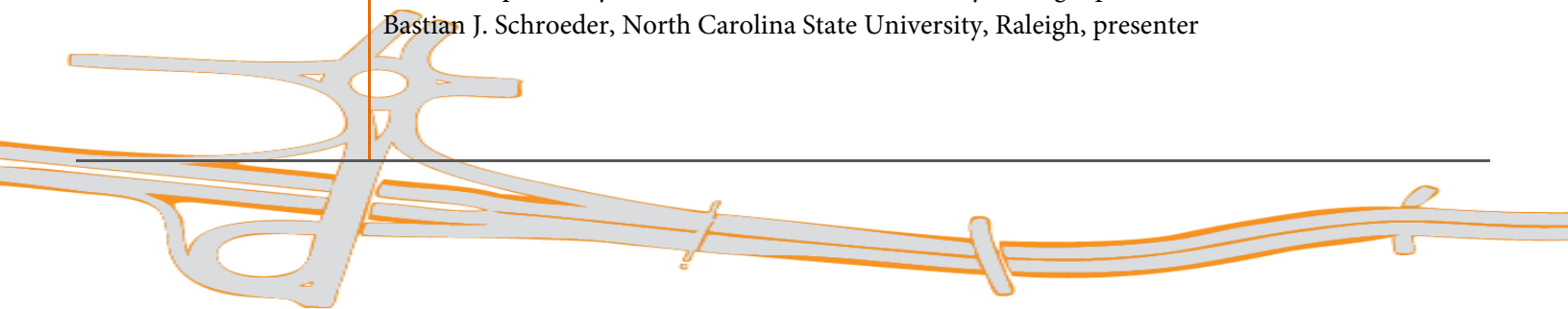
Event Number: Session 628
Event Title: Intercity Passenger Rail
Event Date: Tuesday, January 14, 2014 - 2:00PM-3:45PM
Event Location: Shoreham, Blue Room Foyer
Presiding Officers: Valerio Oricchio, T.Y. Lin International, presiding
Sponsored By: Intercity Passenger Rail ([AR010](#))

Presentation (s) **The Open Secret: Critical Factors for Chinese High Speed Rail Development- 14-0646**
Rongfang Liu, New Jersey Institute of Technology, presenter
Liu Lv, New Jersey Institute of Technology, presenter

Event Number: Session 629
Event Title: Railroad Operating Technologies
Event Date: Tuesday, January 14, 2014 - 2:00PM-3:45PM
Event Location: Shoreham, Blue Room Foyer
Presiding Officers: Mark H. Dingler, CSX Transportation, Inc., presiding



Sponsored By:	Railroad Operating Technologies (AR030)
Presentation (s)	Optimization of Rail Energy Conservation Through Adoption of Varying Coasting Strategies: Case Study of Long Island Rail Road's Flatbush Branch- 14-5316 Leon A Allen, Long Island Rail Road, presenter I-Jy Chien, New Jersey Institute of Technology, presenter
Event Title:	Time Use and Activity Patterns Subcommittee, ADB10(1)
Event Date:	Tuesday, January 14, 2014 - 3:45PM-5:30PM
Event Location:	Hilton, Piscataway
Presiding Officers:	Cynthia Chen, University of Washington, presiding Dick Ettema, Utrecht University, Netherlands, presiding
Sponsored By:	Traveler Behavior and Values (ADB10)
Event Number:	Session 662
Event Title:	Exploiting Real-Time Information in Traffic Network Analysis
Event Date:	Tuesday, January 14, 2014 - 3:45PM-5:30PM
Event Location:	Hilton, Lincoln East
Presiding Officers:	Shou-Ren Hu, National Cheng Kung University, Taiwan, presiding
Sponsored By:	Transportation Network Modeling (ADB30)
Presentation (s)	Continuous-Time Dynamic User Equilibrium with Departure-Time Choice and Capacitated Queues- 14-4483 Rui Ma, Rensselaer Polytechnic Institute, presenter Xuegang (Jeff) Ban, Rensselaer Polytechnic Institute, presenter Jong-Shi Pang, University of Illinois, Urbana-Champaign, presenter
Event Number:	Session 663
Event Title:	Integrated Transportation and Emission Modeling
Event Date:	Tuesday, January 14, 2014 - 3:45PM-5:30PM
Event Location:	Hilton, Columbia Hall 6
Presiding Officers:	Robert Chamberlin, Resource Systems Group, Inc., presiding
Sponsored By:	Transportation and Air Quality (ADC20)
Presentation (s)	Application of AIMSUN Microsimulation Model in Estimating Emissions in Signalized Arterial Corridors- 14-1481** Abseen Rifa Anya, North Carolina State University, Raleigh, presenter Nagui M. Roupail, North Carolina State University, Raleigh, presenter H. Christopher Frey, North Carolina State University, Raleigh, presenter Bastian J. Schroeder, North Carolina State University, Raleigh, presenter



Integrating Simplified Emission Estimation Model and Mesoscopic Dynamic Traffic Simulator to Evaluate Emission Impacts of Traffic Management Strategies- 14-4968

Xuesong Zhou, Arizona State University, presenter
Hao Lei, University of Utah, presenter
Jeffrey Taylor, University of Utah, presenter
Bin Liu, North Carolina State University, Raleigh, presenter
Nagui M. Roupail, North Carolina State University, Raleigh, presenter
H. Christopher Frey, North Carolina State University, Raleigh, presenter

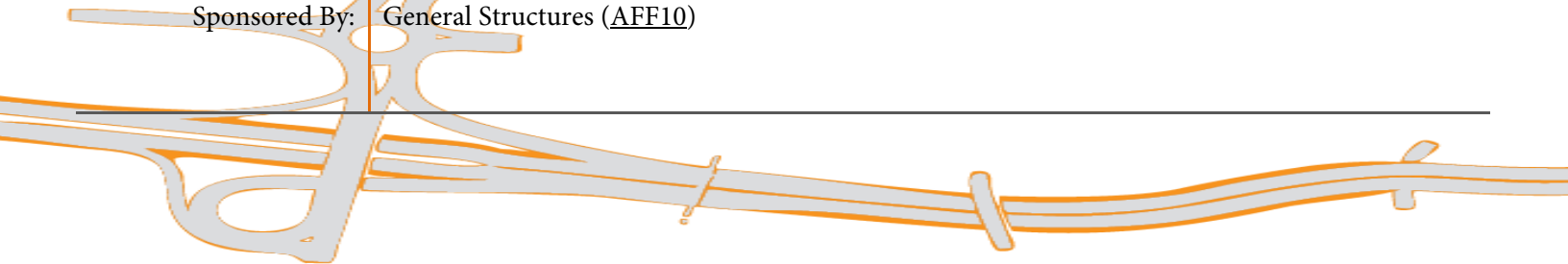
Event Number: Session 672
Event Title: Striving to Build Consensus Across Transportation Modes
Event Date: Tuesday, January 14, 2014 - 3:45PM-5:30PM
Event Location: Hilton, Jefferson West
Presiding Officers: Ben H. Strumwasser, CirclePoint, presiding
Stephen Anthony Gazillo, URS Corporation, presiding
Sponsored By: Public Involvement in Transportation ([ADA60](#))

Presentation (s) **Citi Bike Takes New York- P14-5776**
Mitchell L. Moss, New York University, presenter
Lily Gordon-Koven, New York University Rudin Center for Transportation, presenter
Nolan Levenson, New York University Rudin Center for Transportation, presenter

Event Number: Session 678
Event Title: Cold Planing, Compaction, and Pay Adjustments in Hot-Mix Asphalt Pavements
Event Date: Tuesday, January 14, 2014 - 4:15PM-6:00PM
Event Location: Marriott, Salon 2
Presiding Officers: Isaac L. Howard, Mississippi State University, presiding
Sponsored By: Management of Quality Assurance ([AFH20](#))
Flexible Pavement Construction and Rehabilitation ([AFH60](#))

Presentation (s) **Hot-Mix Asphalt Pay Adjustment due to Air Void Variations Using Performance-Related Specifications- 14-3332**
Hao Wang, Rutgers University, presenter
Zilong Wang, Rutgers University, presenter

Event Number: Session 680
Event Title: Emerging Topics in Bridges and Other Structures
Event Date: Tuesday, January 14, 2014 - 4:15PM-6:00PM
Event Location: Marriott, Salon 2
Presiding Officers: Ronald D. Medlock, High Steel Structures, Inc., presiding
Sponsored By: General Structures ([AFF10](#))



Presentation (s) **Assessment of Remaining Fatigue Life of Centenarian Railway Bridges- 14-5347**
Peng Lou, Rutgers University, presenter
Hani H. Nassif, Rutgers University, presenter
Dan Su, Rutgers University, presenter
Eui-Seung Hwang, Kyung Hee University, South Korea, presenter

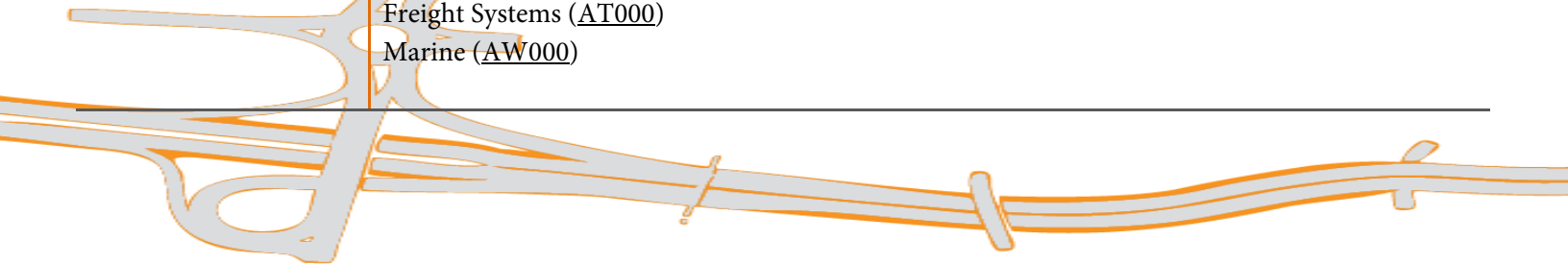
Event Number: Session 691
Event Title: Transportation Demand Forecasting: Models and Methods
Event Date: Tuesday, January 14, 2014 - 4:15PM-6:00PM
Event Location: Hilton, International Center
Presiding Officers: Jeremy Raw, Federal Highway Administration, presiding
Sponsored By: Transportation Demand Forecasting ([ADB40](#))
Special Travel Forecasting Resources ([ADB45](#))

Presentation (s) **Modeling Taxi Trip Demand by Time of Day in New York City- 14-4217**
Ci Yang, Rutgers University, presenter
Eric J. Gonzales, Rutgers University, presenter

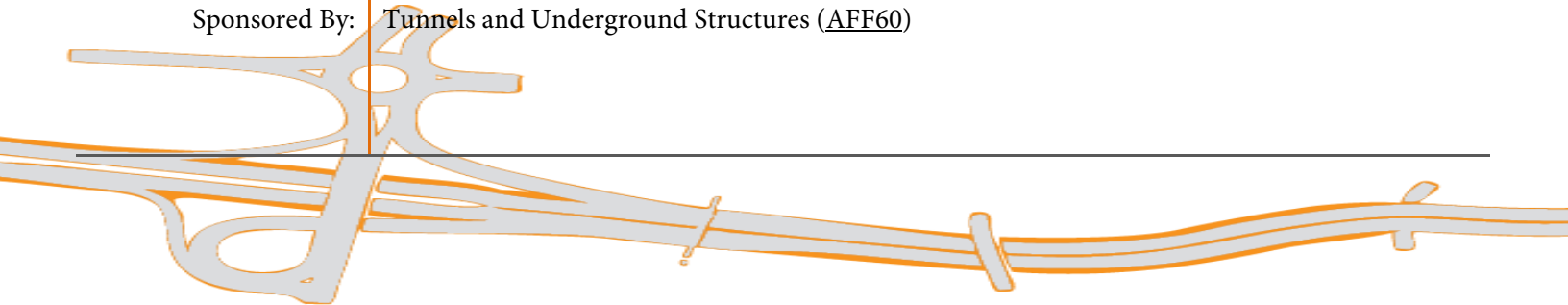
Event Number: Session 692
Event Title: Advanced Traveler Information Systems: Celebrating 15 Years of Innovative Research and Technology
Event Date: Tuesday, January 14, 2014 - 7:30PM-9:30PM
Event Location: Marriott, Thurgood Marshall West
Presiding Officers: Jeffrey Adler, Open Roads Consulting, Inc., presiding
Sponsored By: Traveler Behavior and Values ([ADB10](#))
Effects of Information and Communication Technologies (ICT) on Travel Choices ([ADB20](#))
Intelligent Transportation Systems ([AHB15](#))
User Information Systems ([AND20](#))

Event Title: Climate Change and Energy Task Force
Event Date: Tuesday, January 14, 2014 - 7:30PM-9:30PM
Event Location: Hilton, Gunston
Presiding Officers: Robert B. Noland, Rutgers University, presiding
Sponsored By: Climate Change and Energy ([A0020T](#))

Event Title: Marine and Intermodal Caucus
Event Date: Tuesday, January 14, 2014 - 5:45PM-7:15PM
Event Location: Shoreham, Regency Ballroom
Presiding Officers: Thomas H. Wakeman, Stevens Institute of Technology, presiding
Sponsored By: Barbara A. Ivanov, Washington State Department of Transportation, presiding
Freight Systems ([AT000](#))
Marine ([AW000](#))



Description:	This reception provides an opportunity for those involved or interested in marine and freight transportation to meet or get reacquainted with individuals from industry, government, and academia. A no-host bar will be provided.
Event Title:	Mechanistic Characterization of Pavement Layers Subcommittee, AFD80(1)
Event Date:	Tuesday, January 14, 2014 - 7:30PM-10:00PM
Event Location:	Marriott, Coolidge
Presiding Officers:	Lynne H. Irwin, Cornell University, presiding
Sponsored By:	Strength and Deformation Characteristics of Pavement Sections (AFD80)
Event Number:	Session 706
Event Title:	Prediction, Estimation, and Real-Time Traffic Signal Systems (18)
Event Date:	Tuesday, January 14, 2014 - 7:30PM-9:30PM
Event Location:	Marriott, Salon 2
Presiding Officers:	Ali Hajbabaie, North Carolina State University, Raleigh, presiding
Sponsored By:	Traffic Signal Systems (AHB25)
Presentation (s)	<p>Platoon-Based Arterial Corridor Route Travel Time Estimation Using Sample Travel Times- 14-2038 Peng Hao, Rensselaer Polytechnic Institute, presenter Xuegang (Jeff) Ban, Rensselaer Polytechnic Institute, presenter</p> <p>Bayesian Network-Based Queue Length Estimation Using Sample Travel Times- 14-4437 Peng Hao, Rensselaer Polytechnic Institute, presenter Xuegang (Jeff) Ban, Rensselaer Polytechnic Institute, presenter Dong Guo, Rensselaer Polytechnic Institute, presenter Qiang Ji, Rensselaer Polytechnic Institute, presenter</p> <p>Junction Tree-Based Reinforcement Learning Algorithm for Coordinated Multiagent Systems to Solve Network-Level Signal Control- 14-3649 Feng Zhu, Purdue University, presenter H. M. Abdul Aziz, Purdue University, presenter Xinwu Qian, Purdue University, presenter Satish V. Ukkusuri, Purdue University, presenter</p>
Event Number:	Session 709
Event Title:	Transportation Tunnel Issues
Event Date:	Tuesday, January 14, 2014 - 7:30PM-9:30PM
Event Location:	Marriott, Maryland A
Presiding Officers:	Brian H. Zelenko, Parsons Brinckerhoff, presiding
Sponsored By:	Tunnels and Underground Structures (AFF60)

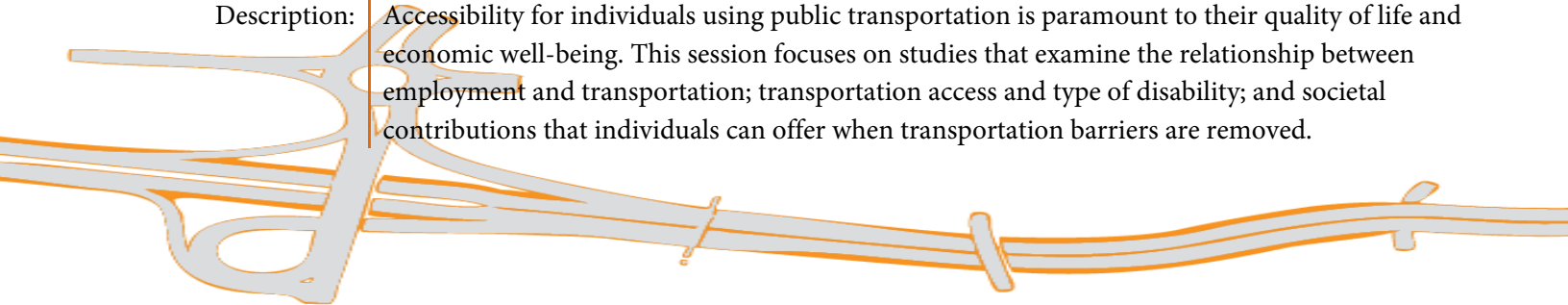


Presentation (s)	Nonlinear Programming Approach for Multipoint Pollutant Discharge Control in Urban Vehicular Tunnels- 14-0442 Zhen Tan, Cornell University, presenter Zhi-Yi Huang, Zhejiang University, China, presenter H. Oliver Gao, Cornell University, presenter
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Event Number:	Session 714
Event Title:	Improving Freight Transportation Efficiency in Metropolitan and Urban Settings
Event Date:	Tuesday, January 14, 2014 - 7:30PM-9:30PM
Event Location:	Shoreham, Diplomat
Presiding Officers:	William L. Eisele, Texas A&M Transportation Institute , presiding
Sponsored By:	Urban Freight Transportation (AT025)
Description:	This session highlights recent investigations of initiatives to improve the efficiency of freight transportation in metropolitan and urban settings. Based on current practices and individual case studies, the presentations examine the role and potential of public policies, distribution networks, consolidation centers, and truck parking to foster improved freight transportation.

Presentation (s)	Public-Sector Freight Interventions in Metropolitan Areas, I: Governance, Supply Side, and Traffic Operations- 14-0835 Jose Holguín-Veras, Rensselaer Polytechnic Institute, presenter Miguel Jaller, Rensselaer Polytechnic Institute, presenter Johanna Amaya, Rensselaer Polytechnic Institute, presenter Xiaokun (Cara) Wang, Rensselaer Polytechnic Institute, presenter Carlos Alberto Gonzalez-Calderon, Rensselaer Polytechnic Institute, presenter Ivan Sanchez-Diaz, Rensselaer Polytechnic Institute, presenter Michael Browne, University of Westminster, United Kingdom, presenter Jeffrey Wojtowicz, Rensselaer Polytechnic Institute, presenter Stacey Darville Hodge, New York City Department of Transportation, presenter Suzann Rhodes, CDM Smith, presenter Daniel Gene Haake, Mid-Ohio Regional Planning Commission, presenter
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Event Number:	Session 719
Event Title:	Accessibility and Economic Well-Being
Event Date:	Tuesday, January 14, 2014 - 7:30PM-9:30PM
Event Location:	Hilton, Jefferson East
Presiding Officers:	David L. Lewis, HDR Inc., Canada, presiding
Sponsored By:	Transportation Economics (ABE20) Accessible Transportation and Mobility (ABE60) Social and Economic Factors of Transportation (ADD20)
Description:	Accessibility for individuals using public transportation is paramount to their quality of life and economic well-being. This session focuses on studies that examine the relationship between employment and transportation; transportation access and type of disability; and societal contributions that individuals can offer when transportation barriers are removed.



Presentation (s) **Transportation Perceptions of Working Adults Planning for Retirement: Qualitative Study-14-0562**

David Pape, San Jose State University, presenter

Asha Weinstein Agrawal, San José State University, presenter

Event Number: Session 720

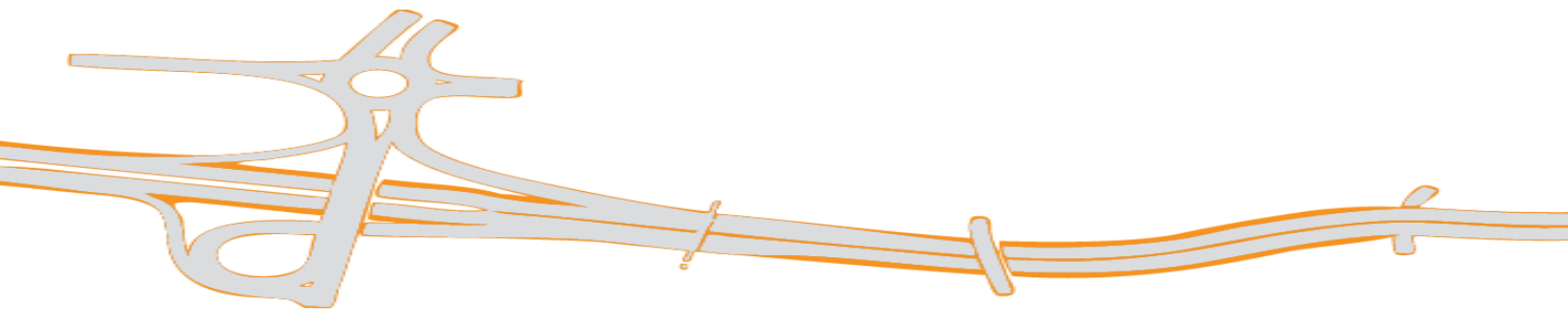
Event Title: Activity-Travel Dynamics

Event Date: Tuesday, January 14, 2014 - 7:30PM-9:30PM

Event Location: Hilton, Lincoln West

Presiding Officers: Cynthia Chen, University of Washington, presiding

Sponsored By: Traveler Behavior and Values ([ADB10](#))

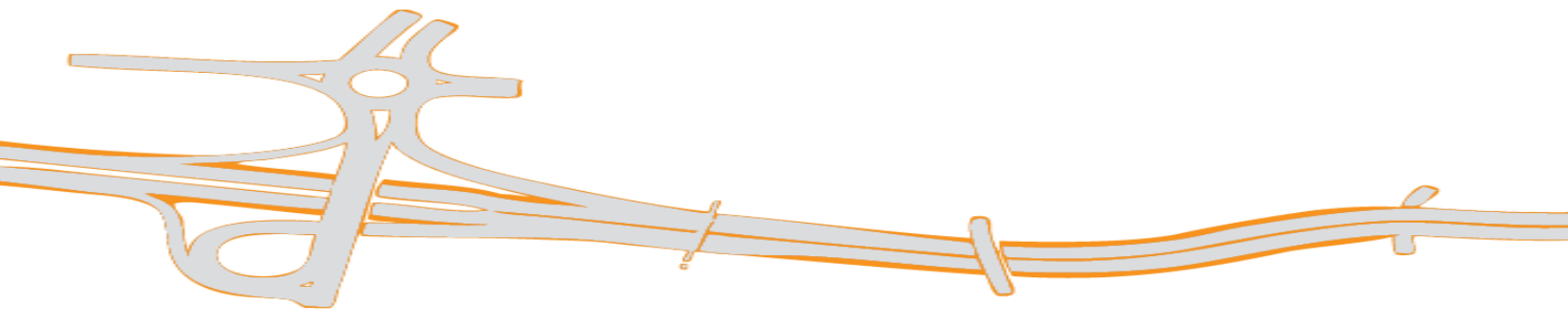


Wednesday, January 15, 2014

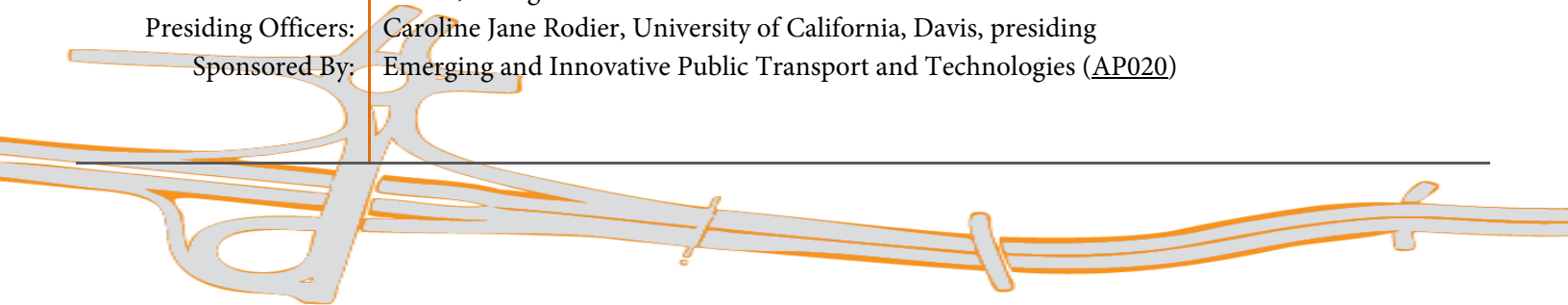
Event Title: Urban Transportation Data and Information Systems Committee
Event Date: Wednesday, January 15, 2014 - 8:00AM-12:00PM
Event Location: Hilton, Cabinet
Presiding Officers: Catherine Theresa Lawson, State University of New York, Albany, presiding
Sponsored By: Urban Transportation Data and Information Systems ([ABI30](#))

Event Title: Artificial Intelligence and Advanced Computing Applications Committee
Event Date: Wednesday, January 15, 2014 - 8:00AM-12:00PM
Event Location: Hilton, Fairchild
Presiding Officers: Adel W. Sadek, State University of New York, Buffalo, presiding
Matthew G. Karlaftis, National Technical University of Athens, Greece, presiding
Sponsored By: Artificial Intelligence and Advanced Computing Applications ([ABI70](#))

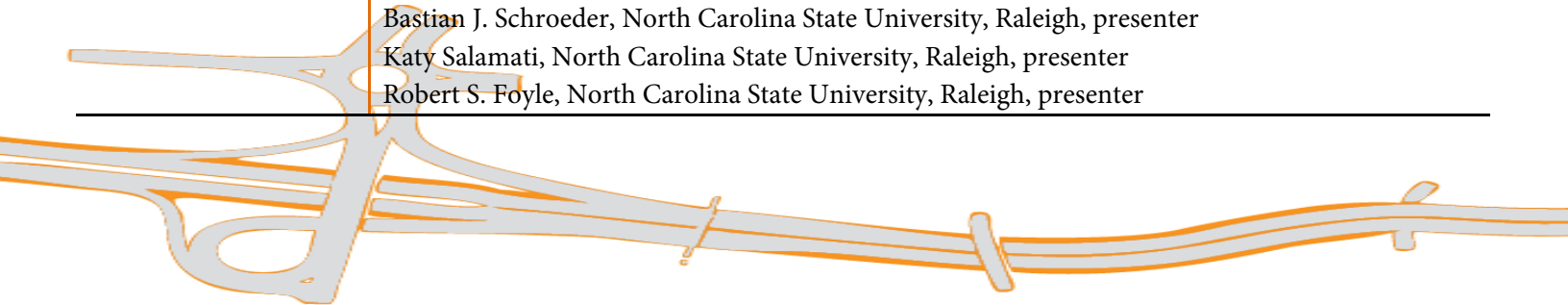
Event Number: Session 739
Event Title: Performance of Transportation Geosystems Under Service and Extreme Loading Conditions
Event Date: Wednesday, January 15, 2014 - 8:00AM-9:45AM
Event Location: Marriott, Virginia A
Presiding Officers: Prasenjit Basu, Pennsylvania State University, presiding
Paola Bandini, New Mexico State University, presiding
Sponsored By: Modeling for the Design, Construction, and Management of Geosystems (AFS50)
Presentation (s) **Modeling Effects of Surface Blast on Underground Structures With or Without Protective Barriers - 14-1039**
Anirban De, Manhattan College, presenter
Alberto N. Morgante, Manhattan College, presenter
Thomas F. Zimmie, Rensselaer Polytechnic Institute, presenter
(Research funded by CMMI Division of National Science Foundation (NSF))



Event Number:	Session 742
Event Title:	Evaluating Airport Pavement Sustainability and Durability
Event Date:	Wednesday, January 15, 2014 - 8:00AM-9:45AM
Event Location:	Shoreham, Diplomat
Presiding Officers:	Brian D. McKeehan, Delta Airport Consultants, Inc., presiding
Sponsored By:	Aircraft/Airport Compatibility (AV070)
Description:	Responses of airfield facilities to a variety of environmental conditions influence their durability.
Presentation (s)	Mechanical Responses and Viscoelastic Properties of Asphalt Mixtures Under Heavy Static and Dynamic Aircraft Loads- 14-0719 Maria Chiara Guercio, Villanova University, presenter Leslie Myers McCarthy, Villanova University, presenter Yusuf A. Mehta, Rowan University, presenter
Event Number:	Session 749
Event Title:	Automated Vehicles: Key Technical and Operational Challenges
Event Date:	Wednesday, January 15, 2014 - 8:00AM-9:45AM
Event Location:	Hilton, Columbia Hall 5
Presiding Officers:	Paul N. Leiby, Oak Ridge National Laboratory, presiding
Sponsored By:	Intelligent Transportation Systems (AHB15) Vehicle-Highway Automation (AHB30) Transportation Energy (ADC70)
Description:	This cross-cutting session will summarize the most important and sometimes controversial issues related Automated vehicles Each speaker will draw on insights from the 5 of the 10 tracks at the 2013 Summer Workshop on AVs and the subsequent discussion to identify the key policy questions and scientific research needs raised by automated vehicles. A series of 10 minute presentations will be followed by structured panel discussion to further explore main insights and common themes.
Presentation (s)	Shared Mobility and Automated Transit: Challenges, Opportunities, and Next Steps- P14-5867 Stanley E. Young, University of Maryland, College Park, presenter Alain L. Kornhauser, Princeton University, presenter
Event Number:	Session 759
Event Title:	Something Old Becomes New: Emerging Mobility Pathways in the 21st Century
Event Date:	Wednesday, January 15, 2014 - 8:00AM-9:45AM
Event Location:	Hilton, Georgetown West
Presiding Officers:	Caroline Jane Rodier, University of California, Davis, presiding
Sponsored By:	Emerging and Innovative Public Transport and Technologies (AP020)



Presentation (s)	<p>Pedicabs for Urban Transportation in U.S. Cities: Benefits, Challenges, and Regulations- 14-4192 Alison J. Conway, City College of New York, presenter Dounia Khallouki, ENTPE-University of Lyon, France, presenter</p> <p>Deliberations from an Expert Workshop on Vehicle Automation, Public Transportation, and Shared Mobility- 14-5611 Alain L. Kornhauser, Princeton University, presenter Scott Le Vine, Imperial College London, United Kingdom, presenter Shannon Sanders McDonald, Southern Illinois University, Carbondale, presenter Nayel Urena Serulle, University of Maryland, College Park, presenter Stanley E. Young, University of Maryland, College Park, presenter</p>
Event Number: Event Title: Event Date: Event Location: Presiding Officers: Sponsored By:	<p>Session 762 Crash Severity Analysis Wednesday, January 15, 2014 - 8:30AM-10:15AM Marriott, Salon 2 Jianming Ma, Texas Department of Transportation, presiding Safety Data, Analysis and Evaluation (ANB20)</p>
Presentation (s)	<p>Modeling the Impact of Subject and Opponent Vehicle on Crash Severity in Two-Vehicle Collisions- 14-2085 Guilhermina Torrao, University of Aveiro, Portugal, presenter Margarida Cabrita Coelho, University of Aveiro, Portugal, presenter Nagui M. Roupail, North Carolina State University, Raleigh, presenter</p>
Event Number: Event Title: Event Date: Event Location: Presiding Officers: Sponsored By:	<p>Session 763 Effects of Pedestrians, Bicycles, and Transit on Operations, Safety, and Geometrics of Alternative Intersection Design Wednesday, January 15, 2014 - 8:30AM-10:15AM Marriott, Salon 2 Hermanus Jacobus Steyn, Kittelson & Associates, Inc., presiding Operational Effects of Geometrics (AHB65)</p>
Presentation (s)	<p>Pedestrian and Bicycle Accommodation on Superstreets- 14-6672 Anne H. Holzem, North Carolina State University, Raleigh, presenter Joseph E. Hummer, Wayne State University, presenter Nagui M. Roupail, North Carolina State University, Raleigh, presenter Christopher M. Cunningham, North Carolina State University, Raleigh, presenter Sarah Worth O'Brien, North Carolina State University, Raleigh, presenter Bastian J. Schroeder, North Carolina State University, Raleigh, presenter Katy Salamati, North Carolina State University, Raleigh, presenter Robert S. Foyle, North Carolina State University, Raleigh, presenter</p>



Event Number: Session 766
Event Title: Research and Applications in Evacuation Planning
Event Date: Wednesday, January 15, 2014 - 8:30AM-10:15AM
Event Location: Marriott, Salon 2
Presiding Officers: Brian Wolshon, Louisiana State University, presiding
Sponsored By: Emergency Evacuation ([ANB80T](#))

Presentation (s) **Effects of Hurricanes Irene and Sandy in New Jersey: Evacuation Traffic Patterns- 14-3888****

Jian Li, Rutgers University, presenter
Kaan Ozbay, Rutgers University, presenter
Bekir Bartin, Rutgers University, presenter

Pre-evacuation Activities for Hurricane Evacuation: Analysis of Behavioral Intentions from Miami Beach, Florida- 14-1995

Weihao Yin, Virginia Polytechnic Institute and State University, presenter
Pamela Murray-Tuite, Virginia Polytechnic Institute and State University, presenter
Satish V. Ukkusuri, Purdue University, presenter
Hugh Gladwin, Florida International University, presenter

Understanding Mode Choice Behavior of Miami Beach Residents During Hurricane Evacuation- 14-2282

Arif Mohaimin Sadri, Purdue University, presenter
Satish V. Ukkusuri, Purdue University, presenter
Pamela Murray-Tuite, Virginia Polytechnic Institute and State University, presenter
Hugh Gladwin, Florida International University, presenter

Event Number: Session 767
Event Title: Safety Data and Methods Madness
Event Date: Wednesday, January 15, 2014 - 8:30AM-10:15AM
Event Location: Marriott, Salon 2
Presiding Officers: Xiao Qin, South Dakota State University, presiding
Sponsored By: Safety Data, Analysis and Evaluation ([ANB20](#))

Presentation (s) **Multivariate Poisson-Lognormal Model for Pedestrian-Vehicle Crashes in New York City Accounting for General Correlations Among Severity Levels- 14-2464**

Xianyuan Zhan, Purdue University, presenter
H. M. Abdul Aziz, Purdue University, presenter
Satish V. Ukkusuri, Purdue University, presenter

Before-After Safety Evaluations Using Parametric Bayesian Survival Analysis - 14-1466

Kun Xie, New York University, presenter
Kaan Ozbay, Rutgers University, presenter
Hong Yang, New York University, presenter

Spatial Analysis of County-Level Crash Risk in New Jersey Using Severity-Based Hierarchical Bayesian Models- 14-5127

Sami Demiroglu, Rutgers University, presenter
Kaan Ozbay, Rutgers University, presenter

Event Number: Session 771

Event Title: Logistics of Disaster Response and Business Continuity

Event Date: Wednesday, January 15, 2014 - 8:30AM-10:15AM

Event Location: Shoreham, Blue Room Foyer

Presiding Officers: Jon S. Meyer, Consultant, presiding

Sponsored By: Logistics of Disaster Response and Business Continuity ([AT065T](#))

Presentation (s) **Exploring Crisis Informatics Using Social Media Data: Study on 2013 Oklahoma Tornado- 14-2099**

Satish V. Ukkusuri, Purdue University, presenter
Xianyuan Zhan, Purdue University, presenter
Arif Mohaimin Sadri, Purdue University, presenter
Qing Ye, Purdue University, presenter

Using Social Media Data to Understand and Assess Disaster- 14-4823

Xiangyang Guan, University of Washington, presenter
Cynthia Chen, University of Washington, presenter

Event Number: Session 774

Event Title: Recent Advances in Travel Behavior

Event Date: Wednesday, January 15, 2014 - 8:30AM-10:15AM

Event Location: Hilton, International Center

Presiding Officers: Eric J. Miller, University of Toronto, Canada, presiding

Sponsored By: Traveler Behavior and Values ([ADB10](#))
Special Travel Forecasting Resources ([ADB45](#))

Presentation (s) **First Look at Multimodal Individual Travel Behavior in the United States- 14-1042**

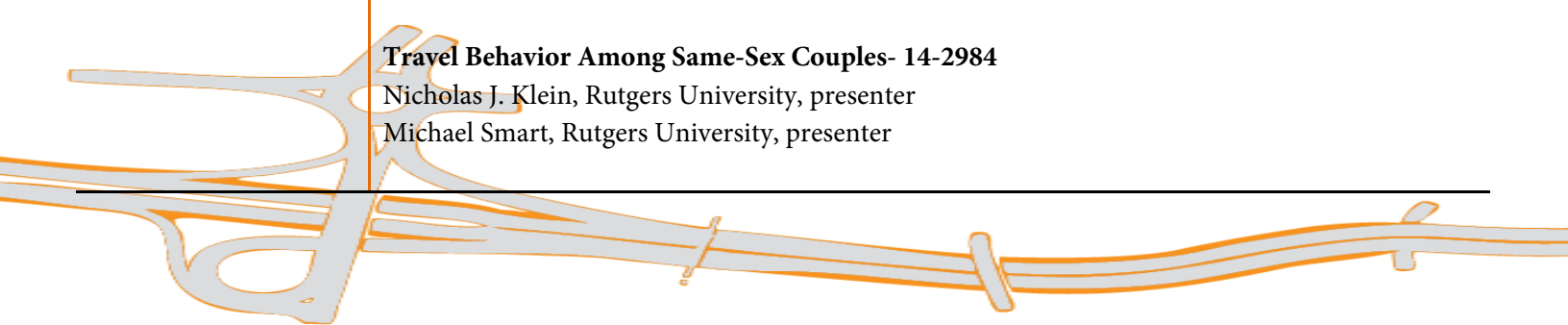
Ralph Buehler, Virginia Polytechnic Institute and State University, presenter
Andrea Hamre, Virginia Polytechnic Institute and State University, presenter

Mobile Phone Data as an Alternative Data Source for Travel Behavior Studies- 14-2827

Menglin Wang, University of Washington, presenter
Cynthia Chen, University of Washington, presenter
Jingtao Ma, Mygistics Inc., presenter

Travel Behavior Among Same-Sex Couples- 14-2984

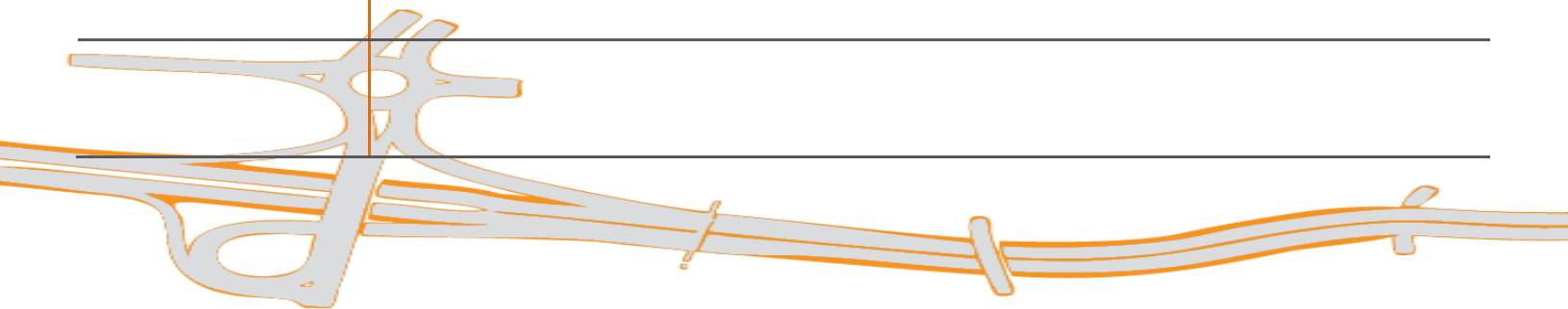
Nicholas J. Klein, Rutgers University, presenter
Michael Smart, Rutgers University, presenter



Event Number:	Session 776
Event Title:	Telecommuting and E-Shopping: Further Empirical Insights
Event Date:	Wednesday, January 15, 2014 - 8:30AM-10:15AM
Event Location:	Hilton, International Center
Presiding Officers:	Xiaoyu Zhu, University of Arizona, presiding
Sponsored By:	Effects of Information and Communication Technologies (ICT) on Travel Choices (ADB20)
Presentation (s)	Exploring Relationship Between Online Shopping and Shopping Trips: Analysis with 2009 National Household Travel Survey Data- 14-4085 Yiwei Zhou, Rensselaer Polytechnic Institute, presenter Xiaokun (Cara) Wang, Rensselaer Polytechnic Institute, presenter

Event Number:	Session 791
Event Title:	Advances in Freight Data Collection and Application
Event Date:	Wednesday, January 15, 2014 - 10:15AM-12:00PM
Event Location:	Shoreham, Executive
Presiding Officers:	Jack Klodzinski, URS Corporation, presiding
Sponsored By:	Freight Transportation Data (ABJ90)
Presentation (s)	Urban Freight Delivery Stop Identification Using GPS Data- 14-3553** Xia Yang, Rensselaer Polytechnic Institute, presenter Zhanbo Sun, Rensselaer Polytechnic Institute, presenter Xuegang (Jeff) Ban, Rensselaer Polytechnic Institute, presenter Jose Holguín-Veras, Rensselaer Polytechnic Institute, presenter

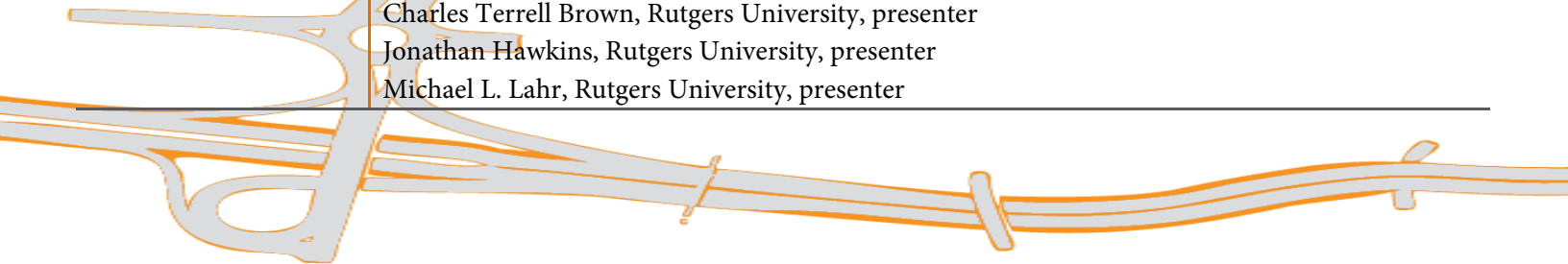
Event Number:	Session 792
Event Title:	Integrating Freight, Part 2: Public Involvement Perspectives and Examples (Part 1, Session 745)
Event Date:	Wednesday, January 15, 2014 - 10:15AM-12:00PM
Event Location:	Shoreham, Blue Room
Presiding Officers:	Claudia M. Bilotto, AECOM Transportation, presiding
Sponsored By:	Public Involvement in Transportation (ADA60) Freight Transportation Planning and Logistics (AT015) Urban Freight Transportation (AT025)
Description:	Robust public involvement is critical to successful transportation planning and project development. A number of state, regional, and local agencies have increased their freight-related public involvement efforts, including the creation of freight advisory groups. This session provides examples of integrating public involvement processes into freight planning, programming, and other activities.
Presentation (s)	Commodity Flow Survey Microdata- P14-6312 Jose Holguín-Veras, Rensselaer Polytechnic Institute, presenter



Event Number:	Session 799
Event Title:	Climate Change Mitigation and Global Transportation: How Far Can Technologies and Policies Take Us?
Event Date:	Wednesday, January 15, 2014 - 10:15AM-12:00PM
Event Location:	Hilton, Columbia Hall 5
Presiding Officers:	Valerie J. Karplus, Massachusetts Institute of Technology, presiding
Sponsored By:	International Trade and Transportation (AT020) Climate Change and Energy (A0020T) Transportation Energy (ADC70) Alternative Transportation Fuels and Technologies (ADC80)
Description:	Given transportation's contribution to greenhouse gas (GHG) emissions, this session focuses on trends in policy, technology, and behavior that will affect prospects for long-term global climate change mitigation. The session begins with the big picture--an assessment of energy and GHG emissions from different modes, technologies, and global regions--and then focuses on specific regional cases to understand the potential and challenges for GHG emission reductions in transportation systems.
Presentation (s)	Daily Travel and CO2 Emissions from Passenger Transport: Comparison of Germany and the United States- 14-1043 Ralph Buehler, Virginia Polytechnic Institute and State University, presenter

Event Number:	Session 804
Event Title:	Green Travel in China?
Event Date:	Wednesday, January 15, 2014 - 10:15AM-12:00PM
Event Location:	Hilton, Columbia Hall 6
Presiding Officers:	V. Setty Pendakur, Pacific Policy and Planning Associates, Canada, presiding Sophie Punte, Clean Air Initiative for Asian Cities, Philippines, presiding
Sponsored By:	Transportation in the Developing Countries (ABE90)
Presentation (s)	Evaluating Attitudes Toward Green Travel Modes in China- 14-3911 Tian Jiang, China Academy of Transportation Sciences, presenter David King, Columbia University, presenter Hongwei Guo, Beijing Institute of Technology, China, presenter Yulin Jiang, China Academy of Transportation Sciences, presenter

Event Number:	Session 806
Event Title:	Linkages Between Transit, Economic Development, and Regional Growth
Event Date:	Wednesday, January 15, 2014 - 10:15AM-12:00PM
Event Location:	Hilton, Columbia Hall 8
Presiding Officers:	Rimon Rafiah, Economikr, Israel, presiding
Sponsored By:	Transportation and Economic Development (ADD10)
Presentation (s)	Economic Impacts of Active Transportation in New Jersey- 14-3100 Charles Terrell Brown, Rutgers University, presenter Jonathan Hawkins, Rutgers University, presenter Michael L. Lahr, Rutgers University, presenter



Event Number: Session 811
Event Title: Analytical Models for Safe and Sustainable Transport
Event Date: Wednesday, January 15, 2014 - 2:30PM-4:00PM
Event Location: Marriott, Delaware A
Presiding Officers: Xiao Qin, South Dakota State University, presiding
Sponsored By: Statistical Methods ([ABJ80](#))

Presentation (s) **Data Mining and Complex Network Algorithms for Traffic Accident Analysis- 14-4172**
Lei Lin, State University of New York, Buffalo, presenter
Qian Wang, State University of New York, Buffalo, presenter
Adel W. Sadek, State University of New York, Buffalo, presenter

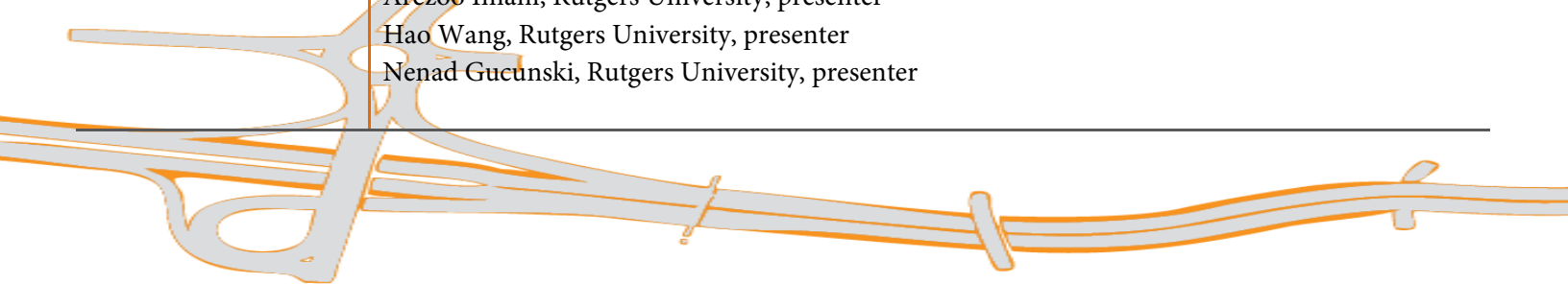
Exploratory Empirical Random Parameter Hazard-Based Analysis of Travel Distance for Sustainable Transport Habits- 14-2274
Panagiotis Ch. Anastasopoulos, State University of New York, Buffalo, presenter
Adel W. Sadek, State University of New York, Buffalo, presenter
Dionysia Perperidou, National Technical University of Athens, Greece, presenter
Matthew G. Karlaftis, National Technical University of Athens, Greece, presenter

Event Number: Session 820
Event Title: So You Are Trying to Implement the "Mechanistic-Empirical Pavement Design Guide"?
Event Date: Wednesday, January 15, 2014 - 2:30PM-4:00PM
Event Location: Marriott, Delaware B
Presiding Officers: Yusuf A. Mehta, Rowan University, presiding
Sponsored By: Flexible Pavement Design ([AFD60](#))

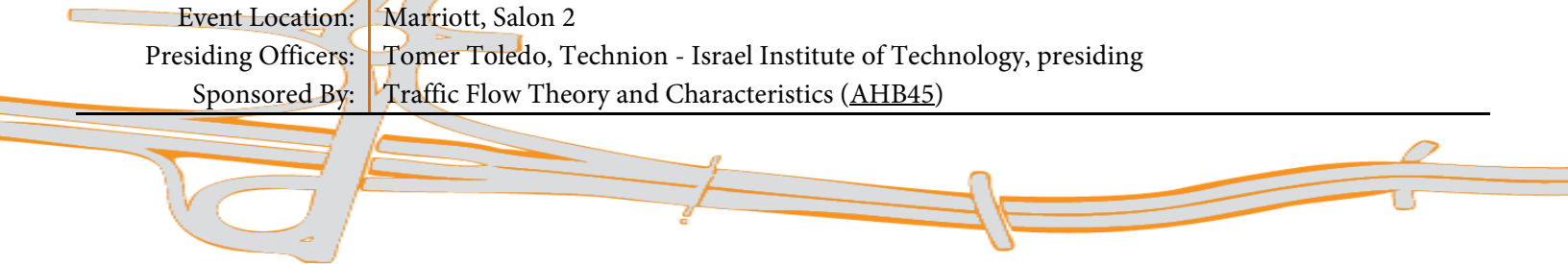
Description: With the adoption of the AASHTO "Mechanistic-Empirical Pavement Design Guide" (MEPDG) by many transportation agencies, numerous research efforts have been conducted to aid in its implementation. Some states have simplified the process by developing catalogs and others are trying to tackle topics such as warm-mix asphalt, subgrade strength, and materials characterization. This session cover these different aspects related to the MEPDG adoption and implementation.

Event Title: Modeling for the Design, Construction and Management of Geosystems Committee
Event Date: Wednesday, January 15, 2014 - 2:30PM-6:00PM
Event Location: Marriott, Coolidge
Presiding Officers: Paola Bandini, New Mexico State University, presiding
Sponsored By: Modeling for the Design, Construction, and Management of Geosystems ([AFS50](#))

Presentation (s) **Numerical Simulation of Flexible Pavement Sections Surveyed by Ground Penetrating Radar- 14-3356**
Arezoo Imani, Rutgers University, presenter
Hao Wang, Rutgers University, presenter
Nenad Gucunski, Rutgers University, presenter



Event Number:	Session 833
Event Title:	Hail! Hail! Where's My Taxi?
Event Date:	Wednesday, January 15, 2014 - 2:30PM-4:00PM
Event Location:	Hilton, Jefferson East
Presiding Officers:	J. William Rodman, Nelson\Nygaard Consulting Associates, presiding
Sponsored By:	Paratransit (AP060)
Presentation (s)	Uncongested Mobility for All: Proposal for Areawide Autonomous Taxi System in New Jersey- 14-2373 Jaison John Zachariah, Princeton University, presenter Jingkang Gao, Princeton University, presenter Alain L. Kornhauser, Princeton University, presenter Talal Rasin Mufti, Princeton University, presenter
Event Number:	Session 838
Event Title:	Transit Connectivity and Ridership Forecasting: Factors and Methodologies
Event Date:	Wednesday, January 15, 2014 - 2:30PM-4:00PM
Event Location:	Hilton, Lincoln East
Presiding Officers:	Brendon Hemily, Hemily and Associates, presiding
Sponsored By:	Public Transportation Planning and Development (AP025)
Presentation (s)	Transit Ridership Estimation with Network Kriging: Case Study of Second Avenue Subway, New York City- 14-2953 Dapeng Zhang, Rensselaer Polytechnic Institute, presenter Xiaokun (Cara) Wang, Rensselaer Polytechnic Institute, presenter
Event Number:	Session 840
Event Title:	Value of Travel and Willingness to Pay
Event Date:	Wednesday, January 15, 2014 - 2:30PM-4:00PM
Event Location:	Hilton, Georgetown West
Presiding Officers:	Stephane Hess, University of Leeds, United Kingdom, presiding
Sponsored By:	Traveler Behavior and Values (ADB10)
Presentation (s)	Time Allocation Theory-Based Methodology for Valuation of Travel Time Reliability- 14-4515 Ender Faruk Morgul, Rutgers University, presenter Kaan Ozbay, Rutgers University, presenter
Event Number:	Session 841
Event Title:	Advances in Traffic Flow Theory and Characteristics, Part 2 (Part 1, Session 514)
Event Date:	Wednesday, January 15, 2014 - 2:45PM-4:30PM
Event Location:	Marriott, Salon 2
Presiding Officers:	Tomer Toledo, Technion - Israel Institute of Technology, presiding
Sponsored By:	Traffic Flow Theory and Characteristics (AHB45)



Presentation (s) **Using Social Media to Predict Traffic Flow under Special Event Conditions- 14-3315**
Ming Ni, State University of New York at Buffalo, presenter
Qing He, State University of New York, Buffalo, presenter
Jing Gao, State University of New York at Buffalo, presenter

Event Number: Session 842
Event Title: Advances in Network Modeling
Event Date: Wednesday, January 15, 2014 - 2:45PM-4:30PM
Event Location: Hilton, International Center
Presiding Officers: Elise Miller-Hooks, University of Maryland, College Park, presiding
Sponsored By: Transportation Network Modeling ([ADB30](#))
Special Travel Forecasting Resources ([ADB45](#))

Presentation (s) **Second-Best Toll Pricing Within the Framework of Bounded Rationality- 14-4265**
Xuan Di, University of Minnesota, Twin Cities, presenter
Henry X. Liu, University of Minnesota, Twin Cities, presenter
Xuegang (Jeff) Ban, Rensselaer Polytechnic Institute, presenter

Time-Dependent Freight Tour Synthesis Model (14-2005)- P14-6794

Ivan Sanchez-Diaz, Rensselaer Polytechnic Institute, presenter
Jose Holguín-Veras, Rensselaer Polytechnic Institute, presenter
Xuegang (Jeff) Ban, Rensselaer Polytechnic Institute, presenter

Continuous-Time Dynamic User Equilibrium with Departure-Time Choice and Capacitated Queues (14-4483)- P14-6762

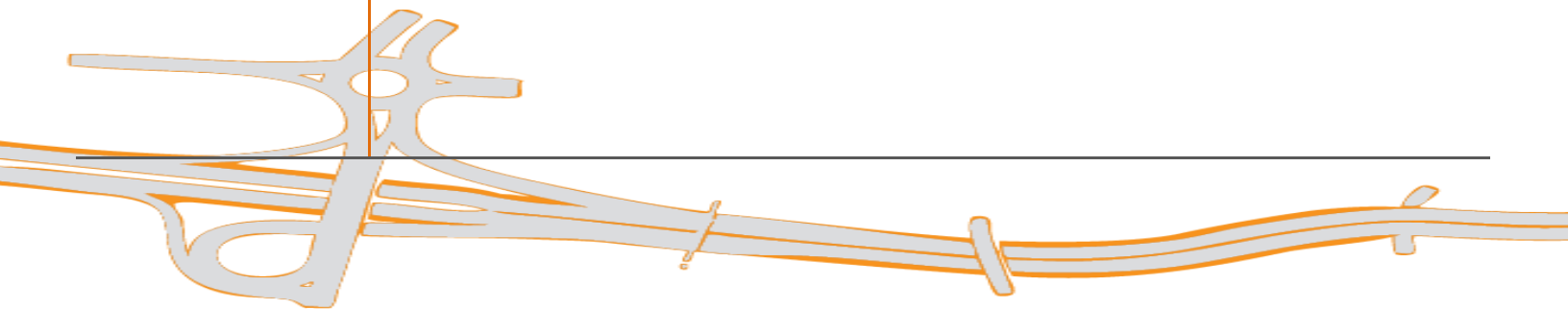
Rui Ma, Rensselaer Polytechnic Institute, presenter
Xuegang (Jeff) Ban, Rensselaer Polytechnic Institute, presenter
Jong-Shi Pang, University of Illinois, Urbana-Champaign, presenter

Bayesian Ranking and Selection Model for Multiobjective Discrete Network Design Problem with Uncertainties (14-5026)- P14-6817

Xun Wang, Cornell University, presenter
H. Oliver Gao, Cornell University, presenter

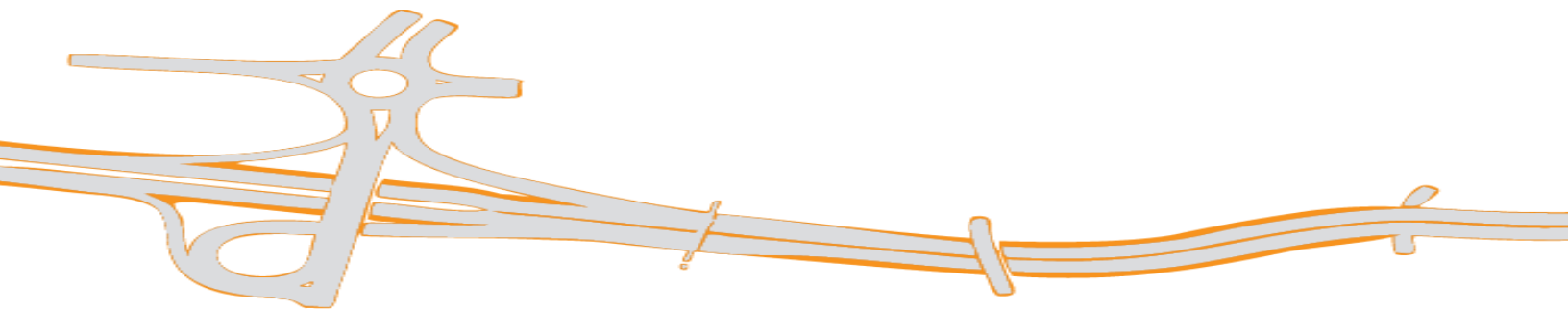
School Bus Routing with Stochastic Demand and Duration Constraints (14-3489)- P14-6822

Hernan Andres Caceres Venegas, State University of New York, Buffalo, presenter
Rajan Batta, State University of New York, Buffalo, presenter
Qing He, State University of New York, Buffalo, presenter



Event Number:	Session 853
Event Title:	Commuter Rail: Reflections on the Foundation of a Mode
Event Date:	Wednesday, January 15, 2014 - 4:30PM-6:00PM
Event Location:	Hilton, Columbia Hall 7
Presiding Officers:	Walter E. Zullig, Ossining, New York, presiding
Sponsored By:	Transportation History (ABG50) Commuter Rail Transportation (AP070)
Description:	The development of commuter rail as a public transportation mode, supported and operated by public entities, was a marked shift for an industry composed of self-reliant firms. Railroads and public entities developed new techniques to manage finances, optimize schedules, and market their services. This session features four presentations examining topics on the economic, financial, legal, and technological aspects that have shaped the development of this mode.
Presentation(s)	Accommodating Long-Term Growth on North America's Commuter Railroads- 14-0899** John G. Allen, Transportation Consultant, presenter Herbert S. Levinson, Transportation Consultant, presenter

Event Number:	Session 858
Event Title:	Social Networks and Social Influence
Event Date:	Wednesday, January 15, 2014 - 4:30PM-6:00PM
Event Location:	Hilton, Georgetown West
Presiding Officers:	Eric J. Miller, University of Toronto, Canada, presiding
Sponsored By:	Traveler Behavior and Values (ADB10)
Presentation(s)	Does Distance Still Matter in Facilitating Social Ties? Roles of Mobility Patterns and the Built Environment- 14-4787 Cynthia Chen, University of Washington, presenter Yingqian Mei, University of Washington, presenter Yu Liu, Peking University, China, presenter



Thursday, January 16, 2014

Event Number: Session 865
Event Title: Please "Like" Our Session on Social Media Data in Modeling

Event Date: Thursday, January 16, 8:00AM-9:45AM
Event Location: Hilton, Georgetown West
Presiding Officers: Floridea Di Ciommo, Technical University of Madrid, Spain, presiding
Sponsored By: Urban Transportation Data and Information Systems ([ABI30](#))
Travel Survey Methods ([ABI40](#))
Traveler Behavior and Values ([ADB10](#))
Effects of Information and Communication Technologies (ICT) on Travel Choices ([ADB20](#))
Transportation Demand Forecasting ([ADB40](#))

Presentation(s) **Modeling Individual Activity Patterns Using Large-Scale, Location-Based Data from Online Social Media- 14-2287**
Samiul Hasan, Purdue University, presenter
Satish V. Ukkusuri, Purdue University, presenter

Event Number: Session 878
Event Title: Handling Uncertainty in Transportation Networks
Event Date: Thursday, January 16, 10:15AM-12:00PM
Event Location: Hilton, Jefferson West
Presiding Officers: Song Gao, University of Massachusetts, Amherst, presiding
Sponsored By: Transportation Network Modeling ([ADB30](#))

Presentation(s) **Bayesian Ranking and Selection Model for Multi-objective Discrete Network Design Problem with Uncertainties- 14-5026**
Xun Wang, Cornell University, presenter
H. Oliver Gao, Cornell University, presenter

School Bus Routing with Stochastic Demand and Duration Constraints- 14-3489
Hernan Andres Caceres Venegas, State University of New York, Buffalo, presenter
Rajan Batta, State University of New York, Buffalo, presenter
Qing He, State University of New York, Buffalo, presenter

