

UNIVERSITY TRANSPORTATION RESEARCH CENTER

# UTRC AT TRB 2012

January 22-January 26, 2012

Papers and Presentations by  
Date and Time



This document puts together the 91st Transportation Research Board (TRB) events which will be presented by UTRC Faculty from 16 consortium universities, enlisted below!

City University of New York (CUNY)  
Clarkson University (Clarkson)  
Columbia University (Columbia)  
Cornell University (Cornell)  
Hofstra University (Hofstra)  
New Jersey Institute of Technology (NJIT)  
New York University (NYU)  
Polytechnic Institute of NYU (Poly)  
Rensselaer Polytechnic Institute (RPI)  
Rowan University (Rowan)  
Rutgers University (Rutgers)  
State University of New York (SUNY)  
Stevens Institute of Technology (Stevens)  
Syracuse University (SU)  
The College of New Jersey (TCNJ)  
University of Puerto Rico - Mayagüez (UPRM)

Please note that the events are listed by date and time

**Event Number:****Event Title:****Event Date:****Event Location:****Presiding Officers:****Sponsored By:**

Signalized Intersections Subcommittee, AHB40(3.1)

Jan 22 2012 8:00AM- 9:15AM

Marriott, Park Tower Suite 8222

Prassas, Elena S. - Polytechnic Institute of New York University

Highway Capacity and Quality of Service (AHB40)

**Event Number:****Event Title:****Event Date:****Event Location:****Presiding Officers:****Sponsored By:**

135

Taxi Research: Priorities, Practices, and Opportunities

Jan 22 2012 9:00AM- 12:00PM

Hilton, Columbia Hall 2

Cooper, James - Napier University, United Kingdom

Chia, David - Planners Collaborative Inc.

Accessible Transportation and Mobility (ABE60)

Paratransit (AP060)

**Event Description:**

The workshop is one of the first activities of the joint taxi subcommittee and will be significant in creating a conversation regarding the role of the taxicab as a part of the transport community. The discussion includes key issues in integrating taxis into general transportation as well as the roles the taxi plays in paratransit. The workshop will attract a wide range of transport professionals, those active in taxi research and those wishing to expand and explore the role of taxis.

**Presentations:****Societal Role of the Taxi: Developing Taxis in Paratransit, Community Transit, and Demand-Responsive Transit (P12-6769)***Daus, Matt - The City College of New York***Taxi Technologies: Potential for Innovation in Scheduling, Delivery, and Assurance (P12-6770)***King, David - Columbia University***Event Number:****Event Number:****Event Title:****Event Date:****Event Location:****Presiding Officers:****Sponsored By:**

161

Use of Simulation to Assess Safety Performance

Jan 22 2012 1:30PM- 4:30PM

Marriott, Washington B2

Gettman, Douglas - Kimley-Horn &amp; Associates, Inc.

Transportation Network Modeling (ADB30)

Transportation and Air Quality (ADC20)

Freeway Operations (AHB20)

Traffic Signal Systems (AHB25)

Highway Capacity and Quality of Service (AHB40)

Traffic Flow Theory and Characteristics (AHB45)

Work Zone Traffic Control (AHB55)

**Presentations:****Calibration of Micro-Simulation Models to Account for Safety and Operation Factors for Traffic Conflict Risk Analysis (P12-6821)***Yang, Hong - Rutgers University**Ozbay, Kaan - Rutgers University*

Event Number:  
Event Title:

175  
Best Practices in Parking Management and Pricing: Lessons Learned from Recently Implemented U.S. Programs  
Jan 22 2012 1:30PM- 4:30PM  
Hilton, Columbia Hall 6  
Weinberger, Rachel R. - University of Pennsylvania  
Transportation Demand Management (ABE50)  
Emerging and Innovative Public Transport and Technologies (AP020)  
Congestion Pricing (ABE25)  
Parking Management (ABE50(1))

Presentations:

**Cruising for Parking: Public Consequences of Private Choices (P12-6255)**  
*King, David - Columbia University*

Event Number:  
Event Title:  
Event Date:  
Event Location:  
Presiding Officers:  
Sponsored By:

181  
Ready for Automated Mobility  
Jan 22 2012 1:30PM- 4:30PM  
Hilton, Gunston  
Young, Stanley E. - University of Maryland, College Park  
Intelligent Transportation Systems (AHB15)  
Vehicle-Highway Automation (AHB30)  
Emerging and Innovative Public Transport and Technologies (AP020)  
Major Activity Center Circulation Systems (AP040)

Presentations:

**Hybrid Path to Entry (P12-6237)**  
*Kornhauser, Alain L. - Princeton University*

**Event Number:**

**Event Title:**

**Event Date:**

**Event Location:**

**Presiding Officers:**

**Sponsored By:**

**Presentations:**

212

Traffic Operations in Adverse Weather

Jan 23 2012 8:00AM- 9:45AM

Marriott, Thurgood Marshall North

Alfelor, Roemer - Federal Highway Administration

Surface Transportation Weather (AH010)

**Modeling Inclement Weather Impact on Freeway Traffic Speed at Macroscopic and Microscopic Levels (12-3340\*\*)**

*Zhao, Yunjie - State University of New York, Buffalo*

*Sadek, Adel W. - State University of New York, Buffalo*

*Fuglewicz, Daniel - State University of New York, Buffalo*

**Event Number:**

**Event Title:**

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**Presiding Officers:**

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**Presentations:**

245

Traffic Law Enforcement Research

Jan 23 2012 8:30AM- 10:15AM

Marriott, Salon 2

Geraci, Michael N. - National Highway Traffic Safety Administration

Traffic Law Enforcement (ANB40)

**Red-Light-Running Behavior at Signalized Intersections in Puerto Rico (12-3095) - D09**

*Buitrago, Fabiola Esperanza - University of Puerto Rico, Mayaguez*

*Figueroa Medina, Alberto M. - University of Puerto Rico, Mayaguez*

**Event Number:**

**Event Title:**

**Event Date:**

**Event Location:**

**Presiding Officers:**

**Sponsored By:**

**Presentations:**

264

Current Topics in Airport Ground Transportation Planning and Terminal Operations

Jan 23 2012 10:15AM- 12:00PM

Shoreham, Congressional

Duncan, Gavin - LeighFisher

Airport Terminals and Ground Access (AV050)

**Challenges in Managing Centralized Taxi Dispatching at High-Volume Airports: Case Study of John F. Kennedy International Airport (12-2980\*\*)**

*Conway, Alison J. - City College of New York*

*Kamga, Camille - City College of New York*

*Yazici, M. Anil - Region 2 University Transportation Research Center*

*Singhal, Abhishek - City College of New York*

**Event Number:**

**Event Title:**

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**Presiding Officers:**

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**Presentations:**

270

Strategic Asset Management: Linking Ports, Freight Transportation, and the Environment

Jan 23 2012 10:15AM- 12:00PM

Shoreham, Diplomat

Stromberg, Erik - Port Industry Consultant

Ports and Channels (AW010)

**Asset Management and Sustainability: Essential Codependency (P12-6398)**

*Wakeman, Thomas H. - Stevens Institute of Technology*

**Event Number:**  
**Event Title:**  
**Event Date:**  
**Event Location:**  
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**Presentations:**

277  
 Commuter Rail: Past, Present, and Future  
 Jan 23 2012 10:15AM- 12:00PM  
 Hilton, Jefferson West  
 Zullig, Walter E. - Transportation Attorney  
 Commuter Rail Transportation (AP070)  
  
**Formerly Electrified Commuter Railroads (12-1224)**  
*Allen, John G. - Chicago Regional Transportation Authority*  
*Levinson, Herbert S. - Transportation Consultant*

**Event Number:**  
**Event Title:**  
**Event Date:**  
**Event Location:**  
**Presiding Officers:**  
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279  
 Environmental Justice, Transit, and Mobility  
 Jan 23 2012 10:15AM- 12:00PM  
 Hilton, Columbia Hall 5  
 Sriraj, P. S. - University of Illinois, Chicago  
 Environmental Justice in Transportation (ADD50)  
  
**Spatial Analysis of Income Disparities in Pedestrian Safety in Northern New Jersey: Is There an Environmental Justice Issue? (12-3705)**  
*Kravetz, Daniel - Rutgers University*  
*Noland, Robert B. - Rutgers University*

**Event Number:**  
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**Event Location:**  
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**Presentations:**

280  
 Forecasting Failure: Managing Assets Through Better Understanding of Deterioration  
 Jan 23 2012 10:15AM- 12:00PM  
 Hilton, Lincoln East  
 Robert, William E. - Spy Pond Partners  
 Transportation Asset Management (ABC40)  
 Pavement Management Systems (AFD10)  
 Maintenance and Operations Management (AHD10)  
  
**Culvert Asset Management Practices and Developing a Deterioration Model for Metal Culverts (12-0692)**  
*Salem, O Sam - Syracuse University*  
*Salman, Baris - Syracuse University*  
*Najafi, Mohammad - University of Texas, Arlington*

**Event Number:**  
**Event Title:**  
**Event Date:**  
**Event Location:**  
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286  
 Bicycling Infrastructure and Safety  
 Jan 23 2012 10:45AM- 12:30PM  
 Marriott, Salon 2  
 Thomas, Libby - University of North Carolina, Chapel Hill  
 Bicycle Transportation (ANF20)  
  
**Evaluation Of The Rectangular Rapid Flash Beacon At A Pinellas Trail Crossing In St. Petersburg, Florida (12-1637\*\*) - D11**  
*Hunter, William Wesley - University of North Carolina, Chapel Hill*  
*Srinivasan, Raghavan - University of North Carolina, Chapel Hill*  
*Martell, Carol - University of North Carolina, Chapel Hill*

Event Number:  
 Event Title:  
 Event Date:  
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 Presiding Officers:  
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 Presentations:

295  
 Current Research in Freight Transportation and Logistics Planning and Operations  
 Jan 23 2012 10:45AM- 12:30PM  
 Shoreham, Blue Room Foyer  
 Wygonik, Erica - University of Washington  
 Yin, Kai - Texas A&M University System  
 Freight Transportation Planning and Logistics (AT015)

**Comprehensive Freight Demand Data Collection Framework for Large Urban Areas (12-0529) - 04**

*Holguin-Veras, Jose - Rensselaer Polytechnic Institute*  
*Jaller Martelo, Miguel - Rensselaer Polytechnic Institute*

**Comparison Between Industrial Classification Systems in Freight Trip Generation Modeling (12-3825) - 05**

*Campbell, Shama - Rensselaer Polytechnic Institute*  
*Jaller Martelo, Miguel - Rensselaer Polytechnic Institute*  
*Sanchez-Diaz, Ivan - Rensselaer Polytechnic Institute*  
*Holguin-Veras, Jose - Rensselaer Polytechnic Institute*  
*Lawson, Catherine Theresa - State University of New York, Albany*

**Development of National Freight Demand Model with Limited Data and Resources (12-4094) - 06**

*Cantillo, Victor Manuel - Universidad del Norte, Colombia*  
*Jaller, Miguel Angel - Rensselaer Polytechnic Institute*  
*Holguin-Veras, Jose - Rensselaer Polytechnic Institute*

**Behavioral Analysis of Commercial Vehicle Mode Choice Decisions in Urban Areas (12-2509) - 22**

*Wang, Qian - State University of New York, Buffalo*  
*Hu, Jinge - State University of New York, Buffalo*

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296  
 Community Impact Assessment: Highlighted Approaches in Delivering Projects and Offering Community Solutions  
 Jan 23 2012 10:45AM- 12:30PM  
 Hilton, International Center  
 Steedly, Ann - Planning Communities, LLC  
 Social and Economic Factors of Transportation (ADD20)

**Commuter Rail: Bringing Economic Benefit to Disadvantaged Populations (P12-5804) - G01**

*Liu, Rongfang - New Jersey Institute of Technology*  
*Hao, Wei - New Jersey Institute of Technology*

Event Number:  
 Event Title:  
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 Presentations:

297  
 Congestion Pricing, Parking Pricing, and Managed Lanes  
 Jan 23 2012 10:45AM- 12:30PM  
 Hilton, International Center  
 Samdahl, Donald R. - Fehr & Peers  
 Transportation Demand Management (ABE50)  
 High-Occupancy Vehicle, High-Occupancy Toll, and Managed Lanes (AHB35)  
 Congestion Pricing (ABE25)

**Slow Down, You Move Too Fast: Use of Tolls by Taxicabs in New York City (12-2101) - J02**

*King, David - Columbia University*  
*Peters, Jonathan Richard - City University of New York, Staten Island*

**Politics of Urban Congestion Pricing: Cautionary Tales from New York City (12-0443) - J06**

*Gordon, Cameron Elliott - University of Canberra, Australia*  
*Flanagan, Richard - City University of New York, Staten Island*

Event Number:  
Event Title:

299  
Policy and Practice in Transportation Demand Management and Parking Management

Event Date:  
Event Location:  
Presiding Officers:  
Sponsored By:

Jan 23 2012 10:45AM- 12:30PM  
Hilton, International Center  
Diggins, Lori - LDA Consulting  
Transportation Demand Management (ABE50)  
Parking Management (ABE50(1))

Presentations:

**Residents' Willingness to Pay for Parking Permits in New York City (12-4393) - D04**

*McDonnell, Simon Thomas - New York University  
Guo, Zhan - New York University*

Event Number:  
Event Title:  
Event Date:  
Event Location:  
Presiding Officers:  
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304  
Transportation Issues in Major U.S. Cities  
Jan 23 2012 10:45AM- 12:30PM  
Hilton, International Center  
Bailey, Linda - New York City Department of Transportation  
Transportation Issues in Major U.S. Cities (ABE30)

Presentations:

**Regulating Curb Space: Developing a Framework to Understand and Improve Curb-side Management (12-2501) - C04**

*Zalewski, Andrew James - Foursquare Integrated Transportation Planning  
Buckley, Stephen M. - City of Philadelphia  
Weinberger, Rachel R. - University of Pennsylvania*

**Just Who Should Pay for What? Vertical Equity, Transit Subsidy, and Road Pricing-Case of New York City (12-3320) - J04**

*Peters, Jonathan Richard - City University of New York, Staten Island  
Kramer, Jonathan K. - Kutztown University*

Event Number:  
Event Title:  
Event Date:  
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Presiding Officers:  
Sponsored By:

334  
Network Origin-Destination Estimation, Disaster Response, and Vulnerability  
Jan 23 2012 1:30PM- 3:15PM  
Hilton, Columbia Hall 1  
Murray-Tuite, Pamela - Virginia Polytechnic Institute and State University  
Transportation Network Modeling (ADB30)

Presentations:

**Case Study-Based Evaluation of Stochastic Multicommodity Emergency Inventory Management Model (12-4009)**

*Ozguven, Eren Erman - Rutgers University  
Ozbay, Kaan - Rutgers University*

Event Number:  
Event Title:  
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Presiding Officers:  
Sponsored By:

Backcalculation of Pavement Layer Moduli Subcommittee, AFD80(1)  
Jan 23 2012 1:30PM- 3:15PM  
Marriott, Madison A  
Irwin, Lynne H. - Cornell University  
Strength and Deformation Characteristics of Pavement Sections (AFD80)



Event Number:

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Presiding Officers:

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Presentations:

336

Parking: Getting the Supply Right

Jan 23 2012 1:30PM- 3:15PM

Hilton, Columbia Hall 7

Weinberger, Rachel R. - University of Pennsylvania

Transportation Demand Management (ABE50)

**Does Availability of On-street Parking Affect Car Ownership of Households with Off-street Parking? (12-2856)**

*Guo, Zhan - New York University*

**Price Elasticity of On-street Parking Demand: Case Study from Seattle, Washington (12-4553)**

*Ottosson, Dadi Baldur - University of Washington*

*Lin, Haiyun - City College of New York*

*Chen, Cynthia - University of Washington*

Event Number:

Event Title:

Event Date:

Event Location:

Presiding Officers:

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Presentations:

341

Active Freeway Traffic Management and Freeway Operations

Jan 23 2012 2:00PM- 3:45PM

Marriott, Salon 2

Petty, Karl - Berkeley Transportation Systems

Freeway Operations (AHB20)

**Comparative Evaluation of Probe-Based Travel Time Prediction Techniques Under Varying Traffic Conditions (12-3677) - B04**

*Yildirimoglu, Mehmet - Rutgers University*

*Ozbay, Kaan - Rutgers University*

Event Number:

Event Title:

Event Date:

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Presiding Officers:

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Presentations:

342

Advances in Traffic Control Devices

Jan 23 2012 2:00PM- 3:45PM

Marriott, Salon 2

Noyce, David A. - University of Wisconsin, Madison

Traffic Control Devices (AHB50)

**Evaluation of Two Treatments for Reducing Crashes Related to Traffic Signal Change Intervals (12-4067) - A17**

*Persaud, Bhagwant - Ryerson University, Canada*

*Gross, Frank - Vanasse Hangen Brustlin, Inc.*

*Srinivasan, Raghavan - University of North Carolina, Chapel Hill*

Event Number:

Event Title:

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Presiding Officers:

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Presentations:

349

Emerging Methods and Developments in Travel Surveys

Jan 23 2012 2:00PM- 3:45PM

Hilton, International Center

Rousseau, Guy - Atlanta Regional Commission

Travel Survey Methods (ABJ40)

**Are Cell Phone Samples Needed for Studies of Walking Activity? (12-0265) - F01**

*Lachapelle, Ugo - Universite du Quebec, Canada*

*Weiner, Marc - Rutgers University*

*Noland, Robert B. - Rutgers University*

Event Number:  
 Event Title:  
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Presentations:

350  
 Accessible Transportation and Mobility: Research and Practice  
 Jan 23 2012 2:00PM- 3:45PM  
 Hilton, International Center  
 Thatcher, Russell H. - TranSystems Corporation  
 Accessible Transportation and Mobility (ABE60)

**Handicapped Accessibility in New York Rail Transit: Comparison of Railroad Stops in Urban and Suburban Areas (12-2939) - K05**  
*Santiago, Nora - City University of New York, Staten Island*  
*Bajrami, Bukurije - City University of New York, Staten Island*  
*Kazui, Afrona - City University of New York, Staten Island*  
*Gordon, Cameron Elliott - University of Canberra, Australia*

Event Number:  
 Event Title:  
 Event Date:  
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Presentations:

365  
 Evaluation and Repair of Concrete Bridge Deterioration  
 Jan 23 2012 3:45PM- 5:30PM  
 Marriott, Maryland B  
 Ghorbanpoor, Al - University of Wisconsin, Milwaukee  
 Structures Maintenance (AHD30)  
 Polymer Concretes, Adhesives, and Sealers (AHD40)

**Impact of Testing Configuration and Data Analysis Approach on Detection of Delamination in Concrete Bridge Decks with Ultrasonic Methods (12-4083)**  
*Azari, Hoda - University of Texas, El Paso*  
*Yuan, Deren - University of Texas, El Paso*  
*Nazarian, Soheil - University of Texas, El Paso*  
*Gucunski, Nenad - Rutgers University*

Event Number:  
 Event Title:  
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 Presiding Officers:  
 Sponsored By:

386  
 Emerging Topics in Air Quality and Greenhouse Gas Emissions from Nonhighway Vehicles  
 Jan 23 2012 3:45PM- 5:30PM  
 Hilton, Georgetown East  
 Gao, H. Oliver - Cornell University  
 Transportation and Air Quality (ADC20)

Event Number:  
 Event Title:  
 Event Date:  
 Event Location:  
 Presiding Officers:  
 Sponsored By:

395  
 Working Together: Multiplying Efficiency by Modal Efficacy, Part 2 (Part 1, Session 340)  
 Jan 23 2012 3:45PM- 5:30PM  
 Hilton, International West  
 Liu, Rongfang - New Jersey Institute of Technology  
 Major Activity Center Circulation Systems (AP040)  
 Bus Transit Systems (AP050)  
 Commuter Rail Transportation (AP070)  
 Light Rail Transit (AP075)  
 Intercity Passenger Rail (AR010)

**Event Number:**

**Event Title:**

**Event Date:**

**Event Location:**

**Presiding Officers:**

**Sponsored By:**

**Presentations:**

404

Work Zone Analysis Tools

Jan 23 2012 4:15PM- 6:00PM

Marriott, Salon 2

Ullman, Gerald L. - Texas Transportation Institute

Work Zone Traffic Control (AHB55)

**GIS-Based Interactive Lane Closure and Traffic Information Tool (12-3721) - A12**

Bartin, Bekir - Rutgers University

Ozbay, Kaan - Rutgers University

Mudigonda, Sandeep - Rutgers University

**Event Number:**

**Event Title:**

**Event Date:**

**Event Location:**

**Presiding Officers:**

**Sponsored By:**

**Presentations:**

406

Advances in the State of the Art for Bridges

Jan 23 2012 4:15PM- 6:00PM

Shoreham, Blue Room Foyer

Larson, Sandra Q - Iowa Department of Transportation

General Structures (AFF10)

**Effect of Substructure Stiffness on Performance of Steel Integral Abutment Bridges Under Thermal Loads (12-3859) - 04**

*Albhaisi, Suhail - Rutgers University*

*Nassif, Hani - Rutgers University*

*Hwang, Eui-Seung - Kyung Hee University, South Korea*

**Event Number:**

**Event Title:**

**Event Date:**

**Event Location:**

**Presiding Officers:**

**Sponsored By:**

**Presentations:**

408

Field Testing and Nondestructive Testing of Bridges

Jan 23 2012 4:15PM- 6:00PM

Shoreham, Blue Room Foyer

Washer, Glenn - University of Missouri, Columbia

Field Testing and Nondestructive Evaluation (NDE) of Transportation Structures (AFF40)

**Advanced Signal Interpretation Algorithm for Automated Impact Echo Testing System: Application to Concrete Bridge Decks (12-3987) - 11**

*Kee, Seong-Hoon - Rutgers University*

*Fetrat, Farhad A. - Rutgers University*

*Gucunski, Nenad - Rutgers University*

**Event Number:**

**Event Title:**

**Event Date:**

**Event Location:**

**Presiding Officers:**

**Sponsored By:**

**Presentations:**

421

Public Involvement in Transportation

Jan 23 2012 4:15PM- 6:00PM

Hilton, International Center

Kresich, Dianne - Arizona Department of Transportation

Public Involvement in Transportation (ADA60)

**Becoming Part of the Process: Public Participation in Immigrant Communities (12-4063) - H13**

*Klein, Nicholas J. - Rutgers University*

*Smart, Michael - University of California, Los Angeles*

Event Number:  
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 Presentations:

422  
 Impacts of Transit-Oriented Development and New Insights on Transit Policy and Research  
 Jan 23 2012 4:15PM- 6:00PM  
 Hilton, International Center  
 Hemily, Brendon - Consultant  
 Public Transportation Planning and Development (AP025)  
**Residential Property Values and New Jersey Transit Village Program (12-0970) - B08**  
*Noland, Robert B. - Rutgers University*  
*DiPetrillo, Stephanie - Rutgers University*  
*Lahr, Michael L. - Rutgers University*

Event Number:  
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424  
 Development of Intelligent Transportation Systems: Methodologies and Practices  
 Jan 23 2012 7:30PM- 9:30PM  
 Marriott, Salon 2  
 Intelligent Transportation Systems (AHB15)  
**Effects of Open Road Tolling on Safety Performance of Freeway Mainline Toll Plazas (12-3885) - C07**  
*Yang, Hong - Rutgers University*  
*Ozbay, Kaan - Rutgers University*  
*Bartin, Bekir - Rutgers University*

Event Number:  
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 Presentations:

430  
 Relationship Between Walking and Design  
 Jan 23 2012 7:30PM- 9:30PM  
 Marriott, Thurgood Marshall East  
 Cynecki, Michael J. - Lee Engineering, LLC  
 Pedestrians (ANF10)  
**More Than Just Exercise: Walking in Today's Cities (12-0677)**  
*Mondschein, Andrew - New York University Wagner Rudin Center*

Event Number:  
 Event Title:  
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431  
 Research All About Roundabouts  
 Jan 23 2012 7:30PM- 9:30PM  
 Marriott, Salon 2  
 Walsh, Brian J. - Washington State Department of Transportation  
 Roundabouts (ANB75T)  
**Evaluation of Sight Distance and Crash Frequency at Roundabouts in the United States (12-2412) - E04**  
*Angelaastro, Michael - Remington & Vernick Engineers*  
*McFadden, John - Federal Highway Administration*  
*Mehta, Yusuf A. - Rowan University*  
**Use of Feature Selection and Variable Ranking in Classification and Regression Tree Evacuee Decision Model (12-0586) - E05**  
*Yazici, M. Anil - Region 2 University Transportation Research Center*  
*Demirogluk, Sami - Rutgers University*  
*Ozbay, Kaan - Rutgers University*  
*Carnegie, Jon - Rutgers University*

Event Number:  
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432  
Research for the Sake of Safety  
Jan 23 2012 7:30PM- 9:30PM  
Marriott, Virginia A  
Monsere, Christopher M. - Portland State University  
Safety Data, Analysis and Evaluation (ANB20)

Presentations:

**The Value of Research About Safety Effect of Actions (12-1099)**

*Hauer, Ezra - University of Toronto, Canada*  
*Bonneson, James A. - Texas Transportation Institute*  
*Council, Forrest M. - University of North Carolina, Chapel Hill*  
*Srinivasan, Raghavan - University of North Carolina, Chapel Hill*  
*Bahar, Geni Brafman - NAVIGATS Inc.*

Event Number:  
Event Title:  
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445  
Critical Roles of Automated Guideway Transit in Multimodal Systems  
Jan 23 2012 7:30PM- 9:30PM  
Hilton, Jefferson West  
Liu, Rongfang - New Jersey Institute of Technology  
Major Activity Center Circulation Systems (AP040)

Event Number:  
Event Title:  
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453  
Traffic Assignment and Network Equilibrium Models  
Jan 23 2012 7:30PM- 9:30PM  
Hilton, Jefferson West  
Mahut, Michael - INRO Consultants Inc., Canada  
Transportation Network Modeling (ADB30)

Presentations:

**Convergence of Time Discretization Schemes for Continuous-Time Dynamic Network Loading Models (12-2861)**

*Ma, Rui - Rensselaer Polytechnic Institute*  
*Ban, Xuegang (Jeff) - Rensselaer Polytechnic Institute*  
*Pang, Jong-Shi - University of Illinois, Urbana-Champaign*  
*Liu, Henry X. - University of Minnesota, Twin Cities*

**Continuous-Time Dynamic User Equilibria, I: Point-Queue Models for Dynamic Network Loading (12-2882)**

*Ban, Xuegang (Jeff) - Rensselaer Polytechnic Institute*  
*Pang, Jong-Shi - University of Illinois, Urbana-Champaign*  
*Liu, Henry X. - University of Minnesota, Twin Cities*  
*Ma, Rui - Rensselaer Polytechnic Institute*

**Boundedly Rational User Equilibria: Mathematical Formulation and Solution Sets (12-4230)**

*Di, Xuan - University of Minnesota, Twin Cities*  
*Liu, Henry X. - University of Minnesota, Twin Cities*  
*Pang, Jong-Shi - University of Illinois, Urbana-Champaign*  
*Ban, Xuegang (Jeff) - Rensselaer Polytechnic Institute*

Event Number:  
Event Title:  
Event Date:  
Event Location:  
Presiding Officers:  
Sponsored By:

Urban Transportation Data and Information Systems Committee  
Jan 23 2012 7:30PM- 9:30PM  
Hilton, Cabinet  
Lawson, Catherine Theresa - State University of New York, Albany  
Urban Transportation Data and Information Systems (ABJ30)

**Event Number:****Event Title:****Event Date:****Event Location:****Presiding Officers:****Sponsored By:**

467

Future Course for Cargo and Commerce, Part 1: Competitive Factors Influencing Success of North American Exports in the Global Marketplace (Part 2, Session 513; Part 3, Session 554; Part 4, Session 614)

Jan 24 2012 8:00AM- 9:45AM

Shoreham, Blue Room

Wakeman, Thomas H. - Stevens Institute of Technology

Freight Systems (AT000)

Marine (AW000)

Marine Environment (AW030)

**Event Number:****Event Title:****Event Date:****Event Location:****Presiding Officers:****Sponsored By:**

474

Modeling Theories and Practices in Freight Planning and Logistics, Part 1 (Part 2, Session 518 )

Jan 24 2012 8:00AM- 9:45AM

Shoreham, Executive

Wang, Bruce (Xiubin) - Texas A&amp;M University

Freight Transportation Planning and Logistics (AT015)

**Presentations:****Estimation of Freight Trip Generation Based on Land Use (12-2705)***Lawson, Catherine Theresa - State University of New York, Albany**Holguin-Veras, Jose - Rensselaer Polytechnic Institute**Sanchez-Diaz, Ivan - Rensselaer Polytechnic Institute**Jaller, Miguel Angel - Rensselaer Polytechnic Institute**Campbell, Shama - Rensselaer Polytechnic Institute**Powers, Erica - State University of New York, Albany***Event Number:****Event Title:****Event Date:****Event Location:****Presiding Officers:****Sponsored By:**

477

Rethinking Paratransit

Jan 24 2012 8:00AM- 9:45AM

Hilton, Georgetown West

Colbert, Lisa - Federal Transit Administration

Paratransit (AP060)

**Presentations:****Taxicabs for Improved Urban Mobility: Are We Missing an Opportunity? (12-2097)***King, David - Columbia University**Peters, Jonathan Richard - City University of New York, Staten Island**Daus, Matthew - The City College of New York***Event Number:****Event Title:****Event Date:****Event Location:****Presiding Officers:****Sponsored By:**

Parking Management Joint Subcommittee of ABE50, ABE20, ABE25, AP020

Jan 24 2012 8:00AM- 9:45AM

Hilton, Morgan

Weinberger, Rachel R. - University of Pennsylvania

Transportation Demand Management (ABE50)

Parking Management (ABE50(1))

Event Number:  
Event Title:  
Event Date:  
Event Location:  
Presiding Officers:  
Sponsored By:

488  
Advances in Winter Maintenance Equipment  
Jan 24 2012 8:30AM- 10:15AM  
Marriott, Salon 2  
Bergner, Dave - International Municipal Signal Association  
Winter Maintenance (AHD65)

Presentations:

**Development of a Snow Plowing Model (12-2121) - D02**  
*Meegoda, Jay N. - New Jersey Institute of Technology*  
*Gao, Shengyan - New Jersey Institute of Technology*

Event Number:  
Event Title:  
Event Date:  
Event Location:  
Presiding Officers:  
Sponsored By:  
Presentations:

491  
Performance and Evaluation of Traffic Signal Systems  
Jan 24 2012 8:30AM- 10:15AM  
Marriott, Salon 2  
Zlatkovic, Milan - University of Utah  
Traffic Signal Systems (AHB25)

**Vehicle Index Inference Based on Bayesian Network for Signalized Intersections Using Sample Travel Times (12-3749) - B16**  
*Hao, Peng - Rensselaer Polytechnic Institute*  
*Guo, Dong - Rensselaer Polytechnic Institute*  
*Ban, Xuegang (Jeff) - Rensselaer Polytechnic Institute*  
*Ji, Qiang - Rensselaer Polytechnic Institute*  
*Sun, Zhanbo - Rensselaer Polytechnic Institute*

Event Number:  
Event Title:  
Event Date:  
Event Location:  
Presiding Officers:  
Sponsored By:

508  
Highway Maintenance Management, Programming, and Contracting Practices  
Jan 24 2012 10:15AM- 12:00PM  
Marriott, Maryland B  
Burlarley-Hyland, Amy Elaine - DBi Services LLC  
Maintenance and Operations Management (AHD10)

Presentations:

**Implementation of a Drainage Identification, Analysis and Mapping System (12-1605)**  
*Meegoda, Jay N. - New Jersey Institute of Technology*

Event Number:  
Event Title:  
Event Date:  
Event Location:  
Presiding Officers:  
Sponsored By:

514  
Accelerated Pavement Testing, Part 2 (Part 1, Session 468)  
Jan 24 2012 10:15AM- 12:00PM  
Shoreham, Palladian  
Elseifi, Mostafa A. - Louisiana State University  
Full-Scale Accelerated Pavement Testing (AFD40)

Presentations:

**Impact of Environmentally Friendly Wide-Base Tires on Pavements: Results from Accelerated Pavement Testing and Advanced Modeling Analysis (12-0727\*\*)**  
*Al-Qadi, Imad L. - University of Illinois, Urbana-Champaign*  
*Wang, Hao - Rutgers University*

Event Number:  
Event Title:  
Event Date:  
Event Location:  
Presiding Officers:  
Sponsored By:

525  
Design of Access to Transfer Stations  
Jan 24 2012 10:15AM- 12:00PM  
Hilton, Columbia Hall 5  
Burgwyn, Theodore J. - MTA New York City Transit  
Intermodal Transfer Facilities (AP045)

Presentations:

**Park-and-Ride Facilities in New York City: Economic Analyses of Alternative Locations (12-2441)**  
*Holguin-Veras, Jose - Rensselaer Polytechnic Institute*  
*Reilly, Jack - Rensselaer Polytechnic Institute*  
*Aros-Vera, Felipe - Rensselaer Polytechnic Institute*  
*Yushimito, Wilfredo Fernando - Universidad Adolfo Ibanez, Chile*  
*Isa, Jhael - Rensselaer Polytechnic Institute*

**Event Number:** 535  
**Event Title:** Optimizing Signal Timing  
**Event Date:** Jan 24 2012 10:45AM- 12:30PM  
**Event Location:** Marriott, Salon 2  
**Presiding Officers:** So, Jaehyun - University of Virginia  
**Sponsored By:** Traffic Signal Systems (AHB25)

**Presentations:**

**Analytical Framework for Vehicular Traffic Signal Control Integrated with Dynamic Traffic Assignment Using Cell Transmission Model (12-0670) - E01**

*Abdul Aziz, Husain M. - Purdue University*

*Ukkusuri, Satish V. - Purdue University*

**Fair, Real-Time Control of a Traffic Signal (12-1688) - E10**

*Li, Hui - Tongji University, China*

*Maxemchuk, Nicholas Frank - Columbia University*

*Gu, Yitian - Columbia University*

*Zhang, Guoxia - Tongji University, China*

**Left-Turn Phase: Permissive, Protected, or Both? (12-3252) - E14**

*Chen, Li - City College of New York*

*Chen, Cynthia - University of Washington*

*Ewing, Reid - University of Utah*

**Event Number:** 538  
**Event Title:** Pavement Surface Characteristics: Comfort, Safety, and the Environment  
**Event Date:** Jan 24 2012 10:45AM- 12:30PM  
**Event Location:** Shoreham, Blue Room Foyer  
**Presiding Officers:** Wang, Hao - Rutgers University  
**Sponsored By:** Transportation-Related Noise and Vibration (ADC40)  
Surface Properties - Vehicle Interaction (AFD90)  
Characteristics of Asphalt-Aggregate Combinations to Meet Surface Requirements (AFK40)  
Pavement Maintenance (AHD20)

**Event Number:** 540  
**Event Title:** Research on Bike Sharing  
**Event Date:** Jan 24 2012 10:45AM- 12:30PM  
**Event Location:** Hilton, International Center  
**Presiding Officers:** Lee, Brian H. Y. - University of Vermont  
**Sponsored By:** Bicycle Transportation (ANF20)

**Presentations:**

540

Research on Bike Sharing

Jan 24 2012 10:45AM- 12:30PM

Hilton, International Center

Lee, Brian H. Y. - University of Vermont

Bicycle Transportation (ANF20)

**Bike Lanes and Other Determinants of Capital Bikeshare Trips (12-3539) - K05**

*Buck, Darren - Virginia Polytechnic Institute and State University*

*Buehler, Ralph - Virginia Polytechnic Institute and State University*

**Event Number:** 541  
**Event Title:** Current Issues in Energy, Climate Change, and Alternative Fuels in Transportation  
**Event Date:** Jan 24 2012 10:45AM- 12:30PM  
**Event Location:** Hilton, International Center  
**Presiding Officers:** Zeimer, Lisa - PB World  
**Sponsored By:** Environment and Energy (ADC00)  
Climate Change (ADC70(2))  
Transportation Energy (ADC70)  
Alternative Transportation Fuels and Technologies (ADC80)

**Presentations:**

541

Current Issues in Energy, Climate Change, and Alternative Fuels in Transportation

Jan 24 2012 10:45AM- 12:30PM

Hilton, International Center

Zeimer, Lisa - PB World

Environment and Energy (ADC00)

Climate Change (ADC70(2))

Transportation Energy (ADC70)

Alternative Transportation Fuels and Technologies (ADC80)

**Life-Cycle Greenhouse Gas Emissions of Materials Used in Road Construction (12-1617) - C03**

*Hanson, Christopher S. - Rutgers University*

*Noland, Robert B. - Rutgers University*

*Cavale, Karthik Rao - Massachusetts Institute of Technology*



Event Number:

Event Title:

Event Date:

Event Location:

Presiding Officers:

Sponsored By:

Presentations:

561

New Federal Aviation Administration Requirement: Pavement Classification Number

Jan 24 2012 1:30PM- 3:15PM

Shoreham, Hampton

Gagnon, Jeff - Federal Aviation Administration

Aircraft/Airport Compatibility (AV070)

**Study to Determine Effect of Pavement Damping and Aircraft Speed on Stress-Based Load Transfer Efficiency Using Three-Dimensional Finite Element Analysis (12-0699)**

*Joshi, Akshay - Rowan University*

*Mehta, Yusuf A. - Rowan University*

*Cleary, Douglas - Rowan University*

Event Number:

Event Title:

Event Date:

Event Location:

Presiding Officers:

Sponsored By:

Presentations:

552

Traffic Monitoring and Control Using Mobile, Onboard, and Roadside Sensors Jan 24 2012

Jan 24 2012 1:30PM- 3:15PM

Marriott, Salon 3

Lin, Wei-Hua - University of Arizona

Intelligent Transportation Systems (AHB15)

**Vehicle Trajectory Reconstruction for Signalized Intersections Using Mobile Traffic Sensors (12-4279)**

*Sun, Zhanbo - Rensselaer Polytechnic Institute*

*Ban, Xuegang (Jeff) - Rensselaer Polytechnic Institute*

Event Number:

Event Title:

Event Date:

Event Location:

Presiding Officers:

Sponsored By:

Major Activity Center Circulation Systems Committee

Jan 24 2012 1:30PM- 5:30PM

Hilton, Kalorama

Liu, Rongfang - New Jersey Institute of Technology

Event Number:

Event Title:

Event Date:

Event Location:

Presiding Officers:

Sponsored By:

Presentations:

584

Warm-Mix Asphalt

Jan 24 2012 2:00PM- 3:45PM

Marriott, Salon 2

Haddock, John E. - Purdue University

Characteristics of Nonasphalt Components of Asphalt Paving Mixtures (AFK30)

**Early-Age Performance of Warm Stone Matrix Asphalt (12-0726) - B18**

*Al-Qadi, Imad L. - University of Illinois, Urbana-Champaign*

*Wang, Hao - Rutgers University*

*Baek, Jongeun - Sejong University, South Korea*

*Leng, Zhen - University of Illinois, Urbana-Champaign*

*Doyen, Matt - University of Illinois, Urbana-Champaign*

*Gillen, Steve - Illinois Tollway*

**Event Number:**  
**Event Title:**  
**Event Date:**  
**Event Location:**  
**Presiding Officers:**  
**Sponsored By:**

**Presentations:**

586  
 Current Research on Transportation Security and Protection of Critical Infrastructure  
 Jan 24 2012 2:00PM- 3:45PM  
 Shoreham, Blue Room Foyer  
 Cheu, Ruey Long - University of Texas, El Paso  
 Critical Transportation Infrastructure Protection (ABE40)

**Disasters in Tohoku, Japan: Preliminary Findings Concerning Postdisaster Humanitarian Logistics Response (12-1162\*\*) - 14**  
*Holguin-Veras, Jose - Rensselaer Polytechnic Institute*  
*Taniguchi, Eiichi - Kyoto University, Japan*  
*Pedroso, Frederico Ferreira Fonseca - Kyoto University, Japan*  
*Jaller Martelo, Miguel - Rensselaer Polytechnic Institute*  
*Thompson, Russell George - Monash University, Australia*

**Event Number:**  
**Event Title:**  
**Event Date:**  
**Event Location:**  
**Presiding Officers:**  
**Sponsored By:**

**Presentations:**

594  
 Harnessing New Data Sources: Bluetooth Readers and Probes  
 Jan 24 2012 2:00PM- 3:45PM  
 Hilton, International Center  
 Petty, Karl - Berkeley Transportation Systems  
 Urban Transportation Data and Information Systems (ABJ30)  
 Highway Traffic Monitoring (ABJ35)  
 Travel Time, Speed and Reliability (ABJ30(3))

**Comparison of Two Novel Travel Time Estimation Techniques Based on Probe Vehicle Data: Kriging Versus Nonlinear Programming-Based Approaches (12-3632) - F09**  
*Yildirimoglu, Mehmet - Rutgers University*  
*Ozbay, Kaan - Rutgers University*

**Event Number:**  
**Event Title:**  
**Event Date:**  
**Event Location:**  
**Presiding Officers:**  
**Sponsored By:**

600  
 Taking Urban Data to New Heights: New Sources, New Techniques, and New Applications  
 Jan 24 2012 2:00PM- 3:45PM  
 Hilton, International Center  
 Lawson, Catherine Theresa - State University of New York, Albany  
 Urban Transportation Data and Information Systems (ABJ30)

**Event Number:**  
**Event Title:**  
**Event Date:**  
**Event Location:**  
**Presiding Officers:**  
**Sponsored By:**

**Presentations:**

601  
 Toward Better Understanding of Travel Time and Speed Estimation  
 Jan 24 2012 2:00PM- 3:45PM  
 Hilton, International Center  
 Petty, Karl - Berkeley Transportation Systems  
 Statewide Transportation Data and Information Systems (ABJ20)  
 Urban Transportation Data and Information Systems (ABJ30)  
 Highway Traffic Monitoring (ABJ35)  
 Travel Time, Speed and Reliability (ABJ30(3))

**Analysis of Travel Time Reliability in New York City Based on Day-of-Week Time-of-Day Periods (12-3653) - G08**  
*Yazici, M. Anil - Region 2 University Transportation Research Center*  
*Kamga, Camille - City College of New York*  
*Mouskos, Kyriacos C. - City College of New York*

**Event Number:**  
**Event Title:**  
**Event Date:**  
**Event Location:**  
**Presiding Officers:**  
**Sponsored By:**

Climate Change and Energy Task Force  
 Jan 24 2012 3:45PM- 5:30PM  
 Hilton, Fairchild  
 Noland, Robert B. - Rutgers University  
 Climate Change and Energy (A0020T)

Event Number:

Event Title:

Event Date:

Event Location:

Presiding Officers:

Sponsored By:

Presentations:

637

Strength Characteristics of Hot-Mix Asphalt: Testing and Modeling, Part 2 (Part 1, Session 581)

Jan 24 2012 4:15PM- 6:00PM

Marriott, Salon 2

Daniel, Jo Sias - University of New Hampshire

Strength and Deformation Characteristics of Pavement Sections (AFD80)

Characteristics of Asphalt Paving Mixtures to Meet Structural Requirements (AFK50)

**Early-Age Performance Characterization of Evotherm Stone Mastic Asphalt: Laboratory Testing Using Plant-Compacted Specimens and On-site Stiffness Measurement (12-0866) - B17**

*Al-Qadi, Imad L. - University of Illinois, Urbana-Champaign*

*Leng, Zhen - University of Illinois, Urbana-Champaign*

*Baek, Jongeun - Sejong University, South Korea*

*Wang, Hao - Rutgers University*

*Doyen, Matt - University of Illinois, Urbana-Champaign*

*Gillen, Steve - Illinois Tollway*

Event Number:

Event Title:

Event Date:

Event Location:

Presiding Officers:

Sponsored By:

Presentations:

644

Access Management Implementation, Safety, and Analysis

Jan 24 2012 7:30PM- 9:30PM

Marriott, Thurgood Marshall North

Williams, Kristine M. - University of South Florida

Safety Data, Analysis and Evaluation (ANB20)

**Development of Left-Turn Lane Warrants for Unsignalized Intersections (12-0182)**

*Fitzpatrick, Kay - Texas Transportation Institute*

*Brewer, Marcus A. - Texas Transportation Institute*

*Eisele, William L. - Texas Transportation Institute*

*Zhang, Yunlong - Texas A&M University*

*Gluck, Jerome Steven - AECOM, United Kingdom*

*Levinson, Herbert S. - Transportation Consultant*

*Iragavarapu, Vichika - Texas Transportation Institute*

Event Number:

Event Title:

Event Date:

Event Location:

Presiding Officers:

Sponsored By:

Presentations:

648

Highway Safety Performance

Jan 24 2012 7:30PM- 9:30PM

Marriott, Salon 2

Nitzel, John J. - CH2M Hill

Highway Safety Performance (ANB25)

**Safety Performance of Freeway Operational Parameters (12-4677) - C07**

*Daniel, Janice R. - New Jersey Institute of Technology*

Event Number:

Event Title:

Event Date:

Event Location:

Presiding Officers:

Sponsored By:

Presentations:

649

Intercity Passenger Rail

Jan 24 2012 7:30PM- 9:30PM

Marriott, Salon 2

Simpson, David P. - David P. Simpson Consultants, LLC

Intercity Passenger Rail (AR010)

**Investment Returns for High-Speed Rail in China: Life-Cycle Cost Analysis (12-4055) - A10**

*Lv, Liu - New Jersey Institute of Technology*

*Liu, Rongfang - New Jersey Institute of Technology*

Event Number:  
 Event Title:  
 Event Date:  
 Event Location:  
 Presiding Officers:  
 Sponsored By:

652  
 Pedestrian Safety and Operations  
 Jan 24 2012 7:30PM- 9:30PM  
 Marriott, Salon 2  
 Schneider, Robert J. - University of California, Berkeley  
 Pedestrians (ANF10)

Presentations:

**Evaluation of Visual Performance from Pedestrian Crosswalk Lighting (12-3348) - D02**  
*Bullough, John D. - Rensselaer Polytechnic Institute*  
*Rea, Mark S. - Rensselaer Polytechnic Institute*  
*Zhang, Xin - Rensselaer Polytechnic Institute*  
**Relative Effectiveness of Pedestrian Safety Countermeasures at Urban Intersections: Lessons from New York City Experience (12-3237\*\*) - D09**  
*Chen, Li - City College of New York*  
*Chen, Cynthia - University of Washington*  
*Ewing, Reid - University of Utah*  
**Clustering Regression Approach: Comprehensive Injury Severity Analysis of Pedestrian-Vehicle Crashes in New York, United States, and Montreal, Canada (12-3285) - D14**  
*Mohamed, Mohamed Gomaa - Ecole Polytechnique de Montreal, Canada*  
*Saunier, Nicolas - Ecole Polytechnique de Montreal, Canada*  
*Miranda-Moreno, Luis Fernando - McGill University, Canada*  
*Ukkusuri, Satish V. - Purdue University*

Event Number:  
 Event Title:  
 Event Date:  
 Event Location:  
 Presiding Officers:  
 Sponsored By:

653  
 Planning for Pedestrians  
 Jan 24 2012 7:30PM- 9:30PM  
 Marriott  
 Boodlal, Levenson - KLS Engineering  
 Pedestrians (ANF10)

Presentations:

**Inconsistencies in Associations Between Crime and Walking: Reflection of Poverty and Density (12-1747) - E03**  
*Lachapelle, Ugo - Universite du Quebec, Canada*  
*Noland, Robert B. - Rutgers University*

Event Number:  
 Event Title:  
 Event Date:  
 Event Location:  
 Presiding Officers:  
 Sponsored By:

664  
 Trucking Industry Research  
 Jan 24 2012 7:30PM- 9:30PM  
 Shoreham, Blue Room Foyer  
 Belzer, Michael H. - Wayne State University  
 Trucking Industry Research (AT060)

Presentations:

**Analyzing Effects of Road Pricing on Freight Carrier Behaviors with Experimental Economics: Comparison of Peak-Hour Delivery and Off-Hour Delivery (12-4525\*\*) - 17**  
*Soro, Wonmango - Rensselaer Polytechnic Institute*  
*Wang, Xiaokun (Cara) - Rensselaer Polytechnic Institute*

Event Number:  
 Event Title:  
 Event Date:  
 Event Location:  
 Presiding Officers:  
 Sponsored By:

665  
 Urban Freight Systems  
 Jan 24 2012 7:30PM- 9:30PM  
 Shoreham, Blue Room Foyer  
 Dahlburg, Theodore Keehnle - Delaware Valley Regional Planning Commission  
 Urban Freight Transportation (AT025)

Presentations:

**Urban Microconsolidation and Last Mile Goods Delivery by Freight Tricycle in Manhattan: Opportunities and Challenges (12-2682\*\*) - 05**  
*Conway, Alison J. - City College of New York*  
*Fatissou, Pierre-Emmanuel - Ecole Nationale des Travaux Publics de l'Etat, France*  
*Eickemeyer, Penny Ellen - University Transportation Research Center*  
*Cheng, Jialei - City College of New York*  
*Peters, Diniece - City College of New York*

Event Number:  
 Event Title:  
 Event Date:  
 Event Location:  
 Presiding Officers:  
 Sponsored By:

666  
 Artificial Intelligence Applications for Travel Time and Demand Forecasting  
 Jan 24 2012 7:30PM- 9:30PM  
 Hilton, Georgetown West  
 Cetin, Mecit - Old Dominion University  
 Artificial Intelligence and Advanced Computing Applications (ABJ70)

Presentations:

**Multiple-Model Combined Forecasting Method for Online Prediction of Border Crossing Traffic at Peace Bridge (12-3398)**  
*Lin, Lei - State University of New York, Buffalo*  
*Sadek, Adel W. - State University of New York, Buffalo*  
*Wang, Qian - State University of New York, Buffalo*

Event Number:  
 Event Title:  
 Event Date:  
 Event Location:  
 Presiding Officers:  
 Sponsored By:

672  
 Three Key R's of Public-Private Partnerships: Regulation, Risk, and Revenue  
 Jan 24 2012 7:30PM- 9:30PM  
 Hilton, Columbia Hall 6  
 Henkin, Tamar - High Street Consulting Group, LLC  
 Revenue and Finance (ABE10)  
 Transportation Economics (ABE20)

Presentations:

**Why Do States Adopt Laws Enabling Public-Private Partnerships? (12-1693)**  
*Geddes, Rick - Cornell University*  
*Wagner, Benjamin L. - Cornell University*

**Event Number:**  
**Event Title:** Marine Environmental Committee  
**Event Date:** Jan 25 2012 8:00AM- 9:45AM  
**Event Location:** Shoreham, Governors  
**Presiding Officers:** Wakeman, Thomas H. - Stevens Institute of Technology  
**Sponsored By:** Marine Environment (AW030)

**Event Number:** 685  
**Event Title:** Advanced Freight Forecasting  
**Event Date:** Jan 25 2012 8:00AM- 9:45AM  
**Event Location:** Shoreham, Blue Room  
**Presiding Officers:** Kawamura, Kazuya - University of Illinois, Chicago  
**Sponsored By:** Traveler Behavior and Values (ADB10)  
Transportation Demand Forecasting (ADB40)  
Freight Transportation Planning and Logistics (AT015)  
Urban Freight Transportation (AT025)

**Presentations:** **Understanding the Reasons for Using Advanced Methods in Freight Forecasting (P12-6321)**

*Holguín-Veras, José - Rensselaer Polytechnic Institute*

**Panel Discussion (P12-6832)**

*Outwater, Maren L. - Resource Systems Group, Inc.*

*Holguin-Veras, Jose - Rensselaer Polytechnic Institute*

*Roorda, Matthew J. - University of Toronto, Canada*

*Fischer, Michael J. - Cambridge Systematics, Inc.*

**Event Number:** 691  
**Event Title:** Transportation Cybersecurity: How Secure Are Your Car, Plane, and Other Transportation Systems?  
**Event Date:** Jan 25 2012 8:00AM- 9:45AM  
**Event Location:** Shoreham, Congressional  
**Presiding Officers:** Dinning, Michael G. - Volpe National Transportation Systems Center  
**Sponsored By:** Critical Transportation Infrastructure Protection (ABE40)  
Information Systems and Technology (ABJ50)  
Intelligent Transportation Systems (AHB15)  
Aviation Security and Emergency Management (AV090)

**Presentations:** **Transforming Transportation Through Information Technology: Opportunities and Vulnerabilities (P12-5410)**

*Zimmerman, Rae - New York University*

**Event Number:** 692  
**Event Title:** Attitudes and Determinants of Cycling  
**Event Date:** Jan 25 2012 8:00AM- 9:45AM  
**Event Location:** Hilton, Jefferson West  
**Presiding Officers:** Buehler, Ralph - Virginia Polytechnic Institute and State University  
**Sponsored By:** Bicycle Transportation (ANF20)

**Event Number:** 702  
**Event Title:** Sustainability in Transportation, Part 2 (Part 1, Session 484)  
**Event Date:** Jan 25 2012 8:00AM- 9:45AM  
**Event Location:** Hilton, Lincoln East  
**Presiding Officers:** MacArthur, John H - Oregon Transportation Research and Education Consortium  
**Sponsored By:** Transportation and Sustainability (ADD40)

**Presentations:** **Sustainability in Transportation: Challenges and Opportunities (12-3592)**

*Kamga, Camille - City College of New York*

*Levinson, Herbert S. - Transportation Consultant*

*Yazici, M. Anil - Region 2 University Transportation Research Center*

**Event Number:**

**Event Title:**

**Event Date:**

**Event Location:**

**Presiding Officers:**

**Sponsored By:**

**Presentations:**

706

Emergency Evacuation Research Developments

Jan 25 2012 8:30AM- 10:15AM

Marriott, Salon 2

Miller-Hooks, Elise - University of Maryland, College Park

Transportation Safety Management (ANB10)

Emergency Evacuation (ANB10(4))

**Use of Regional Transportation Planning Tool for Modeling Emergency Evacuation: Case Study of Northern New Jersey (12-3762) - C05**

*Ozbay, Kaan - Rutgers University*

*Yazici, M. Anil - Region 2 University Transportation Research Center*

*Iyer, Shrisan - Rutgers University*

*Li, Jian - Rutgers University*

*Ozguven, Eren Erman - Rutgers University*

*Carnegie, Jon - Rutgers University*

**Event Number:**

**Event Title:**

**Event Date:**

**Event Location:**

**Presiding Officers:**

**Sponsored By:**

**Presentations:**

708

Statistical Research for Transportation Applications

Jan 25 2012 8:30AM- 10:15AM

Marriott, Salon 2

Washington, Simon - Queensland University of Technology, Australia

Statistical Methods (ABJ80)

**The Impact of Weight Matrices on Parameter Estimation and Inference: A Case Study of Binary Response Using Land Use Data (12-1814) - D13**

*Wang, Yiyi - University of Texas, Austin*

*Kockelman, Kara - University of Texas, Austin*

*Wang, Xiaokun (Cara) - Rensselaer Polytechnic Institute*

**Event Number:**

**Event Title:**

**Event Date:**

**Event Location:**

**Presiding Officers:**

**Sponsored By:**

**Presentations:**

711

Innovations in Activity and Travel Behavior

Jan 25 2012 8:30AM- 10:15AM

Hilton, International Center

Miller, Eric J. - University of Toronto, Canada

Transportation Demand Management (ABE50)

**Understanding Changes in Vehicle Miles Traveled in Response to Fuel Price and Fuel Efficiency for Different Income Groups (12-2679) - J12**

*Wang, Tingting - University of Washington*

*Chen, Cynthia - University of Washington*

**Event Number:**

**Event Title:**

**Event Date:**

**Event Location:**

**Presiding Officers:**

**Sponsored By:**

**Presentations:**

713

Travel Behavior of the Young and the Old

Jan 25 2012 8:30AM- 10:15AM

Hilton, International Center

Morency, Catherine - École Polytechnique de Montréal, Canada

Traveler Behavior and Values (ADB10)

**Mode Choice Analysis of School Trips in New Jersey (12-0386) - H19**

*Noland, Robert B. - Rutgers University*

*Park, Hyunsoo - Rutgers University*

*von Hagen, Leigh Ann - Rutgers University*

*Chatman, Daniel G. - University of California, Berkeley*

Event Number:  
 Event Title:  
 Event Date:  
 Event Location:  
 Presiding Officers:  
 Sponsored By:

Presentations:

733  
 Addressing Equity in Generating Transportation Revenues  
 Jan 25 2012 10:15AM- 12:00PM  
 Hilton, International West  
 Taylor, Brian D. - University of California, Los Angeles  
 Revenue and Finance (ABE10)  
 Transportation Demand Management (ABE50)  
 Environmental Justice in Transportation (ADD50)  
 Congestion Pricing (ABE25)

**Efficiency and Equity of Pricing Strategies for Cars and Transit (12-4465)**  
*Gonzales, Eric J. - Rutgers University*

Event Number:  
 Event Title:  
 Event Date:  
 Event Location:  
 Presiding Officers:  
 Sponsored By:

Presentations:

751  
 Intersection Safety Findings, Capacity Adjustments, and Accommodation of Trucks and Superloads at Roundabouts  
 Jan 25 2012 2:30PM- 4:00PM  
 Marriott, Thurgood Marshall West  
 Marriott, Thurgood Marshall West  
 Paul, Andrew K. - Massachusetts Department of Transportation  
 Roundabouts (ANB75T)

**Safety-Effectiveness of Converting Signalized Intersections to Roundabouts (12-1658)**  
*Gross, Frank - Vanasse Hangen Brustlin, Inc.*  
*Lyon, Craig - Persaud and Lyon Inc., Canada*  
*Persaud, Bhagwant - Ryerson University, Canada*  
*Srinivasan, Raghavan - University of North Carolina, Chapel Hill*

Event Number:  
 Event Title:  
 Event Date:  
 Event Location:  
 Presiding Officers:  
 Sponsored By:

Presentations:

754  
 Young Member Roundtable: Pressing Policy Issues in Transportation  
 Jan 25 2012 2:30PM- 4:00PM  
 Marriott, Maryland B  
 Lee, Joung - American Association of State Highway and Transportation Officials  
 Young Members Council (YMC) (A0040T)

**Freight Systems (P12-5622)**  
*Conway, Alison J. - City College of New York*

Event Number:  
 Event Title:  
 Event Date:  
 Event Location:  
 Presiding Officers:  
 Sponsored By:

Presentations:

755  
 Airfield Pavement Design Strategies for Safety and Sustainability  
 Jan 25 2012 2:30PM- 4:00PM  
 Shoreham, Congressional  
 Solis, Perfecto - Dallas/Fort Worth International Airport  
 Aircraft/Airport Compatibility (AV070)

**Effect of Load Transfer Efficiency on Design Thickness and Effect of Temperature Curling on LTE of Rigid Airfield Pavement (12-0571)**  
*Joshi, Akshay - Rowan University*  
*Mehta, Yusuf A. - Rowan University*  
*Cleary, Douglas - Rowan University*  
*Cunliffe, Charles - Rowan University*  
*Henry, Samuel - Weeks Marine*



Event Number:  
Event Title:  
Event Date:  
Event Location:  
Presiding Officers:  
Sponsored By:

761  
Carsharing: Behavioral Findings and Public Policy Implications  
Jan 25 2012 2:30PM- 4:00PM  
Hilton, Lincoln West  
Le Vine, Scott - Imperial College of Science, Technology and Medicine, United Kingdom  
Emerging and Innovative Public Transport and Technologies (AP020)

Presentations:

**Impacts of Carsharing in a University Setting: Changes in Vehicle Ownership, Parking Demand, and Mobility in Ithaca, NY (12-4053)**  
*Stasko, Timon - Cornell University*  
*Gao, H. Oliver - Cornell University*  
*Buck, Andrew - Cornell University*

Event Number:  
Event Title:  
Event Date:  
Event Location:  
Presiding Officers:  
Sponsored By:

774  
Advances in Transportation Network Modeling  
Jan 25 2012 2:45PM- 4:30PM  
Hilton, International Center  
Peeta, Srinivas - Purdue University  
Transportation Network Modeling (ADB30)

Presentations:

**Optimizing Feeder Bus Routes Based on Access Mode Shifts: Network Modeling Approach (12-2638) (P12-6593) - C08**  
*Huang, Zhaodong - New Jersey Institute of Technology*  
*Liu, Rongfang - New Jersey Institute of Technology*  
**Case-Study-Based Evaluation of Stochastic Multicommodity Emergency Inventory Management Model (12-4009) (P12-6621) - H11**  
*Ozguven, Eren Erman - Rutgers University*  
*Ozbay, Kaan - Rutgers University*

Event Number:  
Event Title:  
Event Date:  
Event Location:  
Presiding Officers:  
Sponsored By:

795  
Impacts of Neighborhood and Urban Form on Travel Behavior  
Jan 25 2012 4:30PM- 6:00PM  
Hilton, Columbia Hall 7  
Lee, Brian H. Y. - University of Vermont  
Traveler Behavior and Values (ADB10)

Presentations:

**How will land use policies affect travel? The importance of residential sorting (12-3647)**  
*Cao, Xinyu - University of Minnesota, Twin Cities*  
*Chatman, Daniel G. - University of California, Berkeley*

**Event Number:**

**Event Title:**

**Event Date:**

**Event Location:**

**Presiding Officers:**

**Sponsored By:**

**Presentations:**

801

Network Models for Transit, Freight, and Supply Chains

Jan 26 2012 8:00AM- 9:45AM

Hilton, Georgetown West

Unnikrishnan, Avinash - West Virginia University

Transportation Network Modeling (ADB30)

**Optimizing Feeder Bus Routes Based on Access Mode Shifts: Network Modeling Approach (12-2638)**

*Huang, Zhaodong - New Jersey Institute of Technology*

*Liu, Rongfang - New Jersey Institute of Technology*

**Event Number:**

**Event Title:**

**Event Date:**

**Event Location:**

**Presiding Officers:**

**Sponsored By:**

**Presentations:**

804

Status of Long-Term Bridge Performance Program

Jan 26 2012 8:00AM- 12:00PM

Marriott, Thurgood Marshall North

Ghasemi, Hamid - Federal Highway Administration

Structures Maintenance (AHD30)

Bridge Management (AHD35)

**Long-Term Data Collection Phase: 2012 and 2013 Plans (P12-5451)**

*Maher, Ali - Rutgers University*

**Event Number:**

**Event Title:**

**Event Date:**

**Event Location:**

**Presiding Officers:**

**Sponsored By:**

**Presentations**

809

New Directions and Applications Using Network Modeling

Jan 26 2012 10:15AM- 12:00PM

Hilton, Georgetown West

Chiu, Yi-Chang - University of Arizona

Transportation Network Modeling (ADB30)

**Two-Stage Optimization Model for Staggered Work Hours (12-3399)**

*Yushimito, Wilfredo Fernando - Universidad Adolfo Ibanez, Chile*

*Ban, Xuegang (Jeff) - Rensselaer Polytechnic Institute*

*Holguín-Veras, José - Rensselaer Polytechnic Institute*

**Event Number:**

**Event Title:**

**Event Date:**

**Event Location:**

**Presiding Officers:**

**Sponsored By:**

**Presentations:**

810

Nonmotorized Travel Behavior

Jan 26 2012 10:15AM- 12:00PM

Hilton, Georgetown East

Burbidge, Shaunna K. - Metro Analytics

Traveler Behavior and Values (ADB10)

**Integrating Walkability Into Planning Practice (12-4422)**

*Weinberger, Rachel R. - University of Pennsylvania*

*Sweet, Matthias - University of Pennsylvania*