

55th Annual Transportation Research Forum



March 13 - 15, 2014
Sainte Claire Hotel
San Jose, California

Wednesday, March 12

4:00 – 5:00 PM Courtyard Atrium	Registration
5:00-7:00 PM Courtyard Atrium	Welcome Reception with cash bar and light hors d'oeuvres <i>(paid TRF registrants only)</i>

Thursday, March 13

7:00 AM Courtyard Atrium	Registration
7:00-8:00 AM Courtyard Atrium	Continental Breakfast
8:00–9:15 AM Grande Ballroom	Welcome/Opening General Session <i>California High-Speed Rail</i> Keynote Speaker: Ben Tripousis, Northern California Regional Director at the California High Speed Rail Authority
9:15-9:30 AM	Break

Session 1.1: Agricultural Transportation

Session Moderator: James Nolan, University of Saskatchewan

Santa Cruz

Yield Forecasting to Sustain the Agricultural Transportation Under Stochastic Environment

- ♦ Nimish Dharmadhikari, North Dakota State University
- Kambiz Farahmand, North Dakota State University
- Eunsu Lee, North Dakota State University

State Variation of Railroad Wheat Rates

- ♦ Michael Babcock, Kansas State University
- Matthew McKamey, Rabo Agrifinance

Grain Containerization: Trends, Issues and Restrictions

- ♦ Barry Prentice, University of Manitoba
- Mark Hemmes, Quorum Corporation

Session 1.2: Maritime Economics

Session Moderator: Grace Wang, Texas A&M University at Galveston

Saratoga

An Investigation of Factors Influencing Port Choice Regarding Commodities and Foreign Trade Partners

- ♦ EunSu Lee, North Dakota State University
- Wonjoo Cho, Penn State University

East Coast vs. West Coast: The Impact of the Panama Canal's Expansion on the Routing of Asian Imports into the United States

- ♦ Camil Martinez, University of Maryland
- Martin Dresner, University of Maryland
- Adams Steven, University of Massachusetts

Session 1.3: Flexible Cars and Fast Trains

Session Moderator: Shannon McDonald, Southern Illinois University at Carbondale

Santa Vesta

Vehicular Ad Hoc Networks: Finally a Reality?

- ♦ Amelia Regan, University of California, Irvine

Getting Up to Speed: Assessing the Usable Knowledge from Global High Speed Rail Experience for the United States

- ♦ Anthony Perl, Simon Fraser University
- ♦ Andrew Goetz, University of Denver

High Speed Rail Learning System (HSRLS) – Taking Advantage of Online Technologies in Railway Education

- ♦ Pasi Lautala, Michigan Tech University
- Peter Haas, San Jose State University

11:30 AM - 1:00 PM

LUNCH (*Grande Ballroom*)

1:00-3:00PM

Sessions 2.1-2.2

Session 2.1: Transportation Finance

Session Moderator: Carl Scheraga, Fairfield University

Santa Cruz

Has the U.S. Airline Industry Turned the Corner? A Solvency Analysis

- ♦ Richard Gritta, Pamplin School of Business, University of Portland

Analyzing the Impacts of Deviations from Standard Daily Procedures on Stock Performance - The Case of Carnival Cruise Line

- ♦ Forrest H. Holt, Texas A&M University at Galveston
- ♦ Grace Wang, Texas A&M University at Galveston

Distortions in the Measurement of the Efficacy of Financial Leverage Strategies When Operating Leases Are Ignored

- ♦ Carl Scheraga, Fairfield University
- Paul Caster, Fairfield University

Session 2.2: Data and Design

Session Moderator: Bob Walton, Embry-Riddle Aeronautical University

Saratoga

Using Automatic Data Collection Systems to Improve Transit System Performance

- ♦ Nigel Wilson, Massachusetts Institute of Technology

Population Density, Housing and Transportation Cost Trade-Offs: Evidence from the 2000 PUMS Data

- ♦ Matthew Palm, University of California, Davis
- B. Starr McMullen, Oregon State University
- Haizhong Wang, Oregon State University
- Brian Gregor, Oregon Department of Transportation

The Integration of Highway and Transit Data at State DOTs

- ♦ Matthew J. Holian, San Jose State University
- Ralph Boone McLaughlin, San Jose State University

Session 3.1: Transportation Economics*Session Moderator: Omid Rouhani, Cornell University*

Santa Cruz

Incorporating Measures of Service Quality into Estimates of Scale and Scope Economies

- ♦ Ahren Johnston, Missouri State University
- John Ozment, University of Arkansas

The General Social and Private Costs of Driving

- ♦ Omid M. Rouhani, Cornell University
- H. Oliver Gao, Cornell University
- Arash Behenshtian, Cornell University

Economies of Agglomeration and Supply Chain Network Effects: A Comparison of the Panama Maritime and the O'Hare Clusters

- ♦ Anthony M. Pagano, University of Illinois, Chicago
- ♦ Onésimo Sánchez, Panama Canal Authority

Social Welfare Analysis for Alternative Investment Public-Private Partnership Approaches

- ♦ Omid M. Rouhani, Cornell University
- H. Oliver Gao, Cornell University
- R. Richard Geddes, Cornell University

Session 3.2: Transit, Taxis, and Travel Behavior*Session Moderator: B. Starr McMullen, Oregon State University*

Saratoga

The Urban Mass Transportation Act of 1964: A 50 Year Retrospective on Results, Achievements and Effectiveness

- ♦ Arthur Guzzetti, American Public Transportation Association

Cost Benefit Analysis of Rural and Small Urban Transit

- ♦ Ranjit Prasad Godavarthy, North Dakota State University
- Jeremy Mattson, North Dakota State University
- Elvis Ndembe, North Dakota State University

Multilevel Assessment of Public Transportation Infrastructure: A Spatial Econometric Computable General Equilibrium Approach

- ♦ Zhenhua Chen, George Mason University

Making the Case for Transit: WMATA's Regional Benefits

- ♦ Justin Antos, Washington Metropolitan Area Transit Authority

Session 3.3: Rail and Oil Economics

Session Moderator: William Huncke, Surface Transportation Board

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Measuring the Efficiency of U.S Class I Railroads

♦ Elvis Ndembe, North Dakota State University
Saleem Shaik, North Dakota State University

Future Oil Production in North Dakota—Estimates Based on a Seasonal Autoregressive Integrated Moving Average (S-ARIMA)

♦ Jaesung Choi, North Dakota State University
David Roberts, North Dakota State University
Eunsu Lee, North Dakota State University

Comparing Rail Fuel Efficiency with Truck and Waterway

♦ Pan Lu, North Dakota State University
Denver Tolliver, North Dakota State University
Doug Benson, North Dakota State University

Experiences in Latin American Urban Areas to Reduce Emissions from Freight Transportation

♦ Juan Carlos Villa, Texas A&M Transportation Institute

5:00-6:00 PM

POSTER SESSION (includes reception with cash bar and light hors d'oeuvres)

Courtyard Atrium

Ways for Market Penetration of Plug-In Hybrid Electric Vehicles

♦ Jae Hun Kim, University of California, Irvine

Analyzing How Socio-Demographic Characteristics Associate Public Transit Usage – A Comparison Between Southern and Northern California

♦ ThuyT.B. Luong, University of California, Irvine
Will Recker, University of California, Irvine

Association Rules Mining on the Ridership Data of a Bike Sharing Program

♦ Subash Das, University of Louisiana at Lafayette
Anandi Dutta, University of Louisiana at Lafayette

The Impact of Active Transportation Choices in Reducing Per Capita Vehicle-Miles Traveled (VMT): The Case of California

Mintesnot Woldeamanuel, California State University Northridge
♦ Andrew Kent, California State University Northridge

Policy Lessons for Regulating Public-Private Partnership Tolling Schemes in Urban Environments

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

Identifying and Investigating Secondary Crashes by Using Geographic Information System (GIS)

♦ Hongyun Chen, Embry-Riddle Aeronautical University

An Argument to Consider the Internet as the 6th Mode of Transportation

♦ Robert O. Walton, Embry-Riddle Aeronautical University

Potential Changes to Travel Behavior/Patterns in the Next 20-40 Years: A Cognitive Map Approach

♦ Rachel Vogt, Oregon State University
Haizhong Wang, Oregon State University

Public Attitudes toward Bike Lanes in New York City

♦ Wil Fisher, Pepperdine University

The Grain Handling and Transportation System in Canada: A GIS-Based Evaluation of Recent Policy Changes

Savannah Gleim, University of Saskatchewan
♦ James Nolan, University of Saskatchewan

Friday, March 14

7:00 – 8:00 AM Courtyard Atrium	Registration and Continental Breakfast TRF thanks its NEW YORK CHAPTER for sponsoring today's breakfast.
8:00– 8:15 AM Grande Ballroom	Business Meeting
8:15 – 9:15 AM Grande Ballroom	Bryant Walker Smith, Stanford Law School

9:15 - 9:30 AM Break

9:30 - 11:30 AM Sessions 4.1-4.3

Session 4.1: Transportation Finance

Session Moderator: Jack Ventura, Economist

Santa Cruz	<u>Equity Evaluation of Sustainable Mileage-Based User Fee Scenarios</u> Mark Burris, Texas A&M University ♦ Sunghoon Lee, Texas A&M University Tina Geiselbrecht, Texas A&M Transportation Institute Richard T. Baker, Texas A&M Transportation Institute Brian A. Weatherford, California Legislative Analyst's Office
	<u>Comprehensive Equity Analysis of Mileage Based User Fees: Taxation and Expenditures for Roadways and Transit</u> Justin Carlton, Texas A&M University ♦ Mark Burris, Texas A&M University

Forecasting the Outcomes of PPP in Transportation

Kenneth Button, George Mason University

♦ Zhenhua Chen, George Mason University

Do State Fiscal Constraints Affect Implementation of Highway Public-Private Partnerships? A Panel Fixed Logit Assessment

♦ Zhenhua Chen, George Mason University

♦ Nobuhiko Daito, George Mason University

Jonathan L. Gifford, George Mason University

Session 4.2: Environment

Session Moderator: Konstantina Gkritza, Purdue University

Saratoga

Tools and Methodologies to Estimate Truck Emissions in the Latin American Urban Area Environment

♦ Juan Carlos Villa, Texas A&M Transportation Institute

The Impacts of Economic, Logistical, and Transportation Factors on the Cost-Competitiveness of Low-Capacity Green Freight Delivery Vehicles

Chawalit Tipagornwong, Portland State University

♦ Miguel Figliozzi, Portland State University

The Cost of Alternative Biomass Collection Systems

♦ David Ripplinger, North Dakota State University

Session 4.3: Automobile Transport

Session Moderator: Joseph Schwietzman, DePaul University

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An Investigation on the Relevance of Posted Minimum Speed Limit on Interstate Highways: A South Carolina Case Study

♦ CoDanielle Green, South Carolina State University

Judith Mwakalonge, South Carolina State University

Saidi Siuhi, Abu Dhabi University

The Impact of Distracted Driving on Pedestrian Fatalities: An Exploratory Analysis

♦ Keith Tanner, South Carolina State University

Judith Mwakalonge, South Carolina State University

Saidi Siuhi, Abu Dhabi University

Determinants of Vehicle Miles Traveled for Households in Oregon

Daniel Holder, Oregon State University

♦ B. Starr McMullen, Oregon State University

11:30 AM - 1:00 PM

AWARDS LUNCHEON (Grande Ballroom)

Session 5.1: Air Line Economics I*Session Moderator: Alan Bender, Embry-Riddle Aeronautical University***Santa Cruz****Airfares and Competition on International Routes**

- ♦ John Bitzan, North Dakota State University
- Alice Kones, University of Wisconsin Milwaukee
- James Peoples, University of Wisconsin Milwaukee

The effects of mergers on access and connectivity in European and North American air transport markets

- ♦ Aisling Reynolds-Feighan, University College Dublin

U.S. Airport Costs and Production Technology: A Multi-Product Translog Function Analysis

- ♦ Pat McCarthy, Georgia Institute of Technology

Session 5.2: Freight*Session Moderator: Andrew Jennings, Consultant***Saratoga****Multimodal Transportation for Crude Oil Shipment in North Dakota**

- ♦ EunSu Lee, North Dakota State University

The Search for Commodity Flow Data: Just Stop and Ask Them

- Jeremy Sage, Washington State University
- Kenneth Casavant, Washington State University
- ♦ You Zhou, Washington State University
- J. Bradley Eustice, Washington State University

Allocative Efficiency, Agricultural Freight Transportation Demand, and Mode Choice: An Assessment of Service Quality of Longer Trains in a "Seemingly Captive" Market

- ♦ Elvis M. Ndembe, North Dakota State University
- John Bitzan, North Dakota State University

Preliminary Data from the 2012 Commodity Flow Survey

- ♦ Ronald Dych, U.S. DOT

Session 5.3: NeLT -TRF Industrial Panel*Session Moderator: Sanghei Choi (Korea Maritime Institute)***Santa Vesta****Energy Logistics: A Case Study of the Bakken**

- Denver Tolliver, North Dakota State University

Aligning Technology with Supply Chain Strategies

- Anthony M. Pagano, University of Illinois at Chicago

Study on Assessment of Value & Development Feasibility for Next Logistics Technology: Agricultural, Livestock, and Fishery Products

Sangyoung Moon, Hankyong National University

Hazmat Transportation Control System

Yongjang Kwon, Korea Railroad Research Institute

Maritime Transportation Planning Based on Genetic Algorithm and Its Application

Moohong Kang, Korea Maritime Institute

3:00 - 6:00 PM Walking Tour

7:00 PM TRF Council Meeting (Board Room)

Saturday, March 15

7:00 – 8:00 AM
Courtyard Atrium | Registration and Continental Breakfast

8:00 - 10:00 AM Sessions 6.1-6.4

Session 6.1: Personal Transportation

Session Moderator: Art Guzzetti, APTA

Santa Cruz

Sentiment Analysis of the Riders of the Bike Sharing Programs

♦ Subasish Das, University of Louisiana at Lafayette
Anandi Dutta, University of Louisiana at Lafayette
Abseen Rifa Anya, North Carolina State University

Urban Livability: Revitalizing the Square in the Heartland, Quincy, Illinois

♦ Kayla Fuller, Southern Illinois University

Impact of Transportation Accessibility on Residential Property Values in Rajshahi City, Bangladesh: A Spatial Hedonic Approach

♦ Suman Kumar Mitra, University of California, Irvine
Jean-Daniel Saphores, University of California, Irvine

An Econometric Analysis of Automobile Demand by Automobile Type in Greece

♦ V. Dimitra Pyrialakou, Purdue University
Konstantina Gkritza, Purdue University
Matthew G. Karlaftis, National Technical University of Athens

Session 6.2: Air Line Economics II

Session Moderator: Barry Prentice, University of Manitoba

Saratoga

A Dynamic Analysis of Bilateral International Air Travel Flows

♦ Junwook Chi, University of Hawaii Manoa

The Magnitudes of Economic and Non-Economic Factors in Demand for U.S. Domestic Air Passengers

♦ Ju Dong Park, North Dakota State University
Won W. Koo, North Dakota State University

Understanding Gate Arrival Delays within a Metropolitan Area: An Application of Multilevel Analysis to the Case of the DC Metroplex

Tony Diana, Federal Aviation Administration
♦ Stephen Moskowitz, Federal Aviation Administration

The Influence of Contemporary Politics on Policy: Sequestration and Federal Control Towers A Case Study

♦ Michael McCormick, George Mason University

Dynamic Travel Mode Searching and Switching Analysis Considering Hidden Modal Preference and Behavioral Decision Processes

♦ Chenfeng Xiong, University of Maryland

Session 6.3: Environment II

Session Moderator: David Ripplinger, North Dakota State University

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Natural Gas and Biofuels for Transportation Fuels in the United States – Opportunities, Barriers, and Adoption Strategies

♦ Sorasaree Tonsiengsom, University of Houston
Liang-Chieh (Victor) Cheng, University of Houston

Prioritization, Inventory Planning and Budgeting for Road Management Resources: A Case Study of South Korea

Choong Heon Yang, Korea Institute of Construction Technology
♦ Amelia Regan, University of California, Irvine

The Impact of Los Angeles Metro Gold Line Extension (East Los Angeles): Implications for Sustainable Urban Travel and Development

♦ Priscilla Appiah, University of Southern California

Developing an Electronic Toll Collection System for the Accra-Tema Motorway, Ghana

♦ Kate Amissah, University of Southern California
Shahed Rowshan, University of Southern California

Session 6.4: Panel

Session Organizer: Patrick Sherry, University of Denver, National Center for Intermodal Transportation

Sainte Claire

Safety Culture and Employee Health in the Transit Industry

Keaton Zucker, University of Denver, National Center for Intermodal Transportation
Allison Bondanza, University of Denver, National Center for Intermodal Transportation
Lisa Trujillo, Denver RTD
David Colarossi, University of Denver

10:00-10:15 AM

Break

10:15 -12:15 PM

Sessions 7.1-7.4

Session 7.1: Transportation Safety

Session Moderator: Hongyn Chen, Embry-Riddle Aeronautical University

Santa Cruz

A General Aviation Crash Rate at Non-Towered Airports

♦ Christian Salmon, Western New England University
Ahmed Al Arashi, Western New England University

A Framework for Measuring the Safety Impacts of the U.S. Coast Guard's Navigation Safety System

♦ Marc Thibault, United States Coast Guard

An Exploratory Analysis of the Impacts of Non-Technological and Technological Distractions on Non-motorized Road Fatalities

♦ Jamario White, South Carolina State University
Judith Mwakalonge, South Carolina State University
Saidi Siuhi, Abu Dhabi University

Session 7.2: Traffic

Session Moderator: Elvis Ndembe, North Dakota State University

Saratoga

Assessing the Effectiveness of a Portable Dynamic Lane Merging System at Work Zones

♦ Jeffrey Reinker, University of Rhode Island
Jyh-Hone Wang, University of Rhode Island
Justin Messina, University of Rhode Island

Trip-timing Decisions at a Congestible Facility with Atomic Users

André de Palma, Ecole Normale Supérieure de Cachan
♦ Robin Lindsey, University of British Columbia

The Influence of Horizontal Distance on the Quality of Vehicle Speed Data Collected Using Mobile Devices Applications (Apps)

♦ Chandani Malla, South Carolina State University
Judith Mwakalonge, South Carolina State University
Saidi Siuhi, Abu Dhabi University
Ikhalfani Solan, South Carolina State University

Session 7.3: Transportation Investment II

Session Moderator: David Boate, Gannett Fleming, Inc.

Santa Vesta

Freight Asset Management: Threshold and Viability Analyses of Freight Multi-Modal Facilities

Jeremy Sage, Washington State University
Kenneth Casavant, Washington State University
♦ Austin Miller, Washington State University
John Maxwell

Transportation Investment in Michigan in last Four Decades: Case Studies and Lessons Learned

♦ Scott Douglas, University of Detroit Mercy
Utpal Dutta, University of Detroit Mercy
Leo Hanifin, University of Detroit Mercy
Ramakrishna R. Tadi, Caltran

Government Interventions to Reduce the Magnitudes of Cost Overruns of Highway Projects – The Impact of Quality Assurance in the Case of Norway

♦ James Odeck, Norwegian University of Science and Technology
Morten Welde, Norwegian University of Science and Technology

Project-based Optimization Approach for Intermodal Transportation Safety Funding Allocation

Jiangbo Yu, University of California, Irvine
♦ Kate Amisshah, Los Angeles County Metropolitan Transportation Authority

Session 7.4: Panel

Session Organizer: Patrick Sherry, University of Denver, National Center for Intermodal Transportation

Sainte Claire

Workforce Development: Recruitment, Retention & Turnover

Patton Garriott, University of Denver
Keaton Zucker, University of Denver, National Center for Intermodal Transportation
Rachel Mulholland, University of Denver, National Center for Intermodal Transportation
Briana Hedman, University of Denver, National Center for Intermodal Transportation

Transportation Research Forum

2014 Honor Roll

Sustaining Members

Dr. Chakree Bamrungwong, Department of Rural Roads, Bangkok

Mark R. Dayton, U.S. Department of Homeland Security

Supporting Members

Michael Babcock, Kansas State University

Paul Gessner, Gessner Transportation Consulting, LLC

Carl Martland

James Nolan, University of Saskatchewan

Jack Ventura

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