Transportation Research Forum Annual Conference
Chicago, Illinois

Draft Program: March 26, 2017

Thursday April 20, 2017

1:00pm-2:00pm

Bicycles
Room XXX
Session Chair: YYY

A Hybrid Cluster-Regression Approach to Forecast Ridership at Bikeshare Stations: Case Study of Chicago’s Divvy System
Presented by: Michael Hyland, Northwestern University

Should Chicago Implement the Idaho Stop Law? A Study of Cyclist Stop Behavior and Policy
Presented by: Jenna Caldwell, DePaul University

Two Interesting Papers
Room XXX
Session Chair: YYY

Implementation of real-time data into a transport simulation
Presented by: Armin Krain, German Aerospace Center

Cycle Length Prediction in Actuated Traffic Signal Control Using Time Series Models
Presented by: Bahman Moghimi, City College of New York

2:00pm-2:30pm: Coffee Break
2:30pm-3:30pm

**Car Sharing**

**Room XXX**

Session Chair:  YYY

On-Demand, App-Based Ride Services: An Emerging Ground Transportation Mode at Los Angeles International Airport (LAX)
  Presented by: Karina Hermawan, University of California, Irvine

Does Free-floating Carsharing Ease Public Transit Disruptions?
  Presented by: Justin Tyndall, University of British Columbia

### Location

**Room XXX**

Session Chair:  YYY

Exploring the Role of Accessibility on Employment Locations in Indiana: A Bottom-Up Approach
  Presented by: Davis Chacon-Hurtado, Purdue University

Environmental Spatial Ability and the Transtheoretical Model of Behavior Change
  Presented by: Alec Biehl, Northwestern University

3:45pm-4:45pm

**Crowdshipping**

**Room XXX**

Session Chair:  YYY

Modeling People’s Behavior and Acceptance of Crowdshipping
  Presented by: Aymeric Punel, Northwestern University

Case Study of a Crowdsourced Package Delivery System
  Presented by: Sudheer Ballare, University of Illinois at Chicago
Aviation
Room XXX
Session Chair: YYY

Does Airline’s Chapter 11 Bankruptcy Filing have an Effect on Airfares?
Presented by: Narendra Malalgoda, North Dakota State University

New Methodology for Airline Competition Analysis and Air Travel Demand Estimate in Emerging but Regulated Airline Market - A Discrete Choice and Weighted Profit Estimation Approach Applied to China
Presented by: Kun Wang, University of British Columbia

Survey Methods
Room XXX
Session Chair: YYY

A Literature Review on Surveys for Autonomous Vehicles
Presented by: Christos Gkartzonikas, Purdue University

Challenges of Conducting Surveys for Activity-Based Travel Demand Models: Establishment Survey of the New York Metropolitan Transportation Council
Presented by: Sabiheh Sadat Faghih, City College of New York

5:00pm-7:00pm: Welcome Reception and Poster Session

Effects of Climate Change Policy on CO2 Emission Reduction in the U.S. Transportation Sector from 2007 to 2012
Presented by: Jaesung Choi, Korea Research Institute of Human Settlements

Regional food freight innovations for the Chicago city-region
Presented by: Michelle Miller, University of Wisconsin, Madison

Contributions and Crossroads: Our National Road System's Impact on the US Economy and Way of Life
Presented by: Erica Interrante, U.S. Department of Transportation

A Comparison of Methodological Techniques used in Motor Vehicle Crash Severity Research
Presented by: Jill Bernard, Fontbonne University
Effect of pedestrian movement on the spread of infectious diseases during air travel: A modeling study
  Presented by: Sirish Namilae, Embry Riddle Aeronautical University

Examining Model Accuracy: How well did in the 1990’s predicting 2015
  Presented by: Mehrnaz Doustmohammadi, University of Alabama in Huntsville
  Michael Anderson, University of Alabama in Huntsville

Examining Crashes for out-of-state and out-of-town drivers: a study of two locations in Alabama
  Presented by: Mehrnaz Doustmohammadi, University of Alabama in Huntsville
  Michael Anderson, University of Alabama in Huntsville

Passenger Mortality and Fatal Accidents Risks: Measuring Recent Air Travel Safety Across Countries
  Presented by: Karina Hermawan, University of California, Irvine

Investigating Nighttime Crash Contributing Factors to Driver Injury Levels at Freeways
  Presented by: Hongyun Chen, Embry-Riddle Aeronautical University

Are our Cities Making our Roads Unsafe? The Impact of Land Use Configurations on Child Pedestrian Crashes
  Presented by: Nick Ferenchak, University of Colorado Denver

Multiple-Time Period Model for Hydrogen Refueling Station Locations Considering Budget Constraints
  Presented by: Seyedali Ghahari, Purdue University

Factor Analysis of Seaborne Trade Volume Affecting on the World Economy
  Presented by: Ju Dong Park, Korea Maritime Institute

An Improved Methodology to Evaluate the Benefits of Highway Preservation
  Presented by: Eric Jessup, Washington State University

Carbon Sensitive Optimization of Biogas Supply Chains Produced from Animal Waste
  Presented by: Yong Shin Park, North Dakota State University

Economic, Social, and Environmental Cost Optimization of Biomass Transportation: A Regional Model for Transportation Analysis in Plant Location Process
  Presented by: Sangpil Ko, Michigan Technological University

Managing Parking on a Medical Campus
  Presented by: Jane Wilberding, Sam Schwartz Transportation Consultants

Age-based policy for blood transshipment in a two-echelon inventory system
  Presented by: Yuan Xu, North Dakota State University
Bus Route Design for Homeless Shelters in Fargo-Moorhead Metropolitan Area
   Presented by: Fangzheng Yuan, North Dakota State University

Infrastructure Impacts of Biomass Feedstock Transportation
   Presented by: Aaron De Laporte, North Dakota State University

A Review of Recent Technologies for Applications of Connected and Autonomous Vehicles
   Presented by: Bahman Moghimi, City College of New York

Potential Biogas Production from Animal Manure: A Supply Chain Perspective
   Presented by: N. Muhammad Aslaam, North Dakota State University

Friday April 21, 2017

8:30am-9:30pm

Automobiles in China
   Room XXX
   Session Chair: YYY

Private Vehicle Ownership in Provincial China
   Presented by: Patrick McCarthy, Georgia Institute of Technology
   Discussant: TBA

Modeling Supply and Demand in the Chinese Automobile Industry
   Presented by: Yuan Chen, University of California, Davis
   Discussant: TBA

Urban Transportation I
   Room XXX
   Session Chair: Camille Kamga, City College of New York

Understanding Travel Behavior and Mode Choice of Urban University Campus Employees
   Presented by: Virginia Sisiopiku, University of Alabama at Birmingham
   Discussant: Camille Kamga, City College of New York

Shared-Use Mobility Center
   Presented by: Sharon Feigon, Shared Use Mobility Center
**Safety**  
**Room XXX**  
Session Chair: Ian Savage, Northwestern University

The Impact of the Graduated Driver Licensing Program in Preventing Motor Vehicle Crashes in North Dakota  
Presented by: Poyraz Kayabas, North Dakota State University  
Discussant: TBA

Long-term Effects of Alternative Deterrence Policies: Panel Data Evidence from Traffic Punishments in Denmark  
Presented by: Kibrom Abay, University of Copenhagen  
Discussant: Ian Savage, Northwestern University

**9:30am-10:00am: Coffee Break**

**10:00am-11:00am**

**Congestion I**  
**Room XXX**  
Session Chair: Kenneth Small, University of California-Irvine

The Income and Spatial Distributional Effects of a Congestion Tax  
Presented by: Yue Ke, Purdue University  
Discussant: TBA

 Tradable Permit Schemes for Controlling Traffic Congestion with Variable Capacity and Demand  
Presented by: Robin Lindsey, University of British Columbia  
Discussant: Kenneth Small, University of California-Irvine
Urban Transportation II
Room XXX
Session Chair: Danny Block, Chicago State University

Passenger Rail and Freight Rail Partnerships in Shared Use Corridors: Case Studies in Boston, Chicago and Denver
   Presented by: Andrew Goetz, University of Denver
   Discussant: Andrew Jennings, Transportation Consultant

From Meatpackers to Megabytes
   Presented by: Mark Rinnan, Jacobs
   Discussant: Danny Block, Chicago State University

The Mobility-as-a-Service Effect on the Business of Transport
Room XXX
Session Chair: Adriana Hemzacek, Cubic Transportation Systems, Inc.

You’ve heard the term MaaS, but do you really know what it means in the transportation industry? Go ahead, admit it, mobility is on your mind. The excitement in Mobility-as-a-Service (MaaS) is beyond the norm. MaaS isn’t just a nice concept anymore – it’s an international reality changing the way people think about mobility within the urban environment. It is not about how we transfer people from their cars to public transport, but more about a user centric view that allows the better planning and management of all modes of transport. A journey is no longer from A to B via a single mode, but can be considered as multiple single trips combined into one easy, pain-free journey. In this session, we’ll define the sharing economy, access economy, on-demand economy – terms used interchangeably, though not always fully understood. We’ll dive into the recent socio-economic shift that reinvented how and what we consume. And if that didn’t hook you, how about we face reality and really hone in on the elephant in the room - a world where usage trumps possession, access rather than ownership is king and where consumers’ immediate needs can be satisfied with the tap of an app. You in? Good. See you there.

Panelists:
Steve Fifita, City Labs - UI Labs
David Katcher, Lyft, Inc.
Andy Taylor, Cubic Transportation Systems, Inc.
Adam Hecktman, Microsoft, Inc.
11:15am-12:15pm

**Congestion II**
**Room XXX**
Session Chair: YYY

Anticipatory Pricing to Manage “Flow Breakdown”
   Presented by: Ian Savage, Northwestern University
   Discussant: TBA

Estimating Subjective Beliefs in Naturalistic Tasks with Limited Information under Variable Delay Penalty
   Presented by: Ming Tsang, Hamilton College
   Discussant: TBA

**Highway Freight**
**Room XXX**
Session Chair: Michael Babcock, Kansas State University

Uncovering Confounding Factors of Large Trucks Crashes and Safety Critical Events: An Exploratory Analysis of a Northwest Truck Driver Survey
   Presented by: Salvador Hernandez, Oregon State University
   Discussant: Laurence Audenaerd, Transportation Consultant

The Impact of Recent Federal Regulations on Motor Carrier Profitability
   Presented by: Ahren Johnston, North Carolina A & T State University
   Discussant: Michael Babcock, Kansas State University

**Current Trends in Global Transportation**
**Room XXX**
Session Chair: Anthony Pagano, University of Illinois at Chicago

*Sponsored by the Center for Supply Chain Management and Logistics at the University of Illinois at Chicago*

Panelists:
Jeanne Heilman, Port of Virginia
Vandana Bahl, Supply Chain Solutions, Inc.
12:30pm-1:45pm: Awards Luncheon and Keynote Address

Keynote speaker, Samuel K. Skinner, United States Secretary of Transportation (1989-1991) and White House Chief of Staff under President George H.W. Bush.

2:00pm-3:00pm

Railroad Regulation
Room XXX
Session Chair: Frank Mulvey, ITER Associates

What’s Driving the Trains: Examining Temporal Changes in Rail Transport Rate Supply-side Determinants Across Commodities
  Presented by: Michael Hyland, Northwestern University
  Discussant: Frank Mulvey, ITER Associates

Future Merger Policy in Rail: Learning from the Past
  Presented by: James Nolan, University of Saskatchewan
  Discussant: Kenneth Boyer, Michigan State University

Transportation Economics
Room XXX
Session Chair: Jack Wells, U.S. Department of Transportation (retired)

The Marginal Congestion of a Taxi in New York City
  Presented by: Alejandro Molnar, Vanderbilt University
  Discussant: Alan Bender, Embry Riddle Aeronautical University

The Value and Challenges of Using Meta-Analysis
  Presented by: Kenneth Button, George Mason University
  Discussant: Jack Wells, U.S. Department of Transportation (retired)
Facility Planning
Room XXX
Session Chair: YYY

Phased Third-Party Plan Review and Inspection Processes to Expedite Permitting of Major Commercial Design-Build Projects
  Presented by: Daniel Dornan, Prince George's County, Maryland
  Discussant: TBA

A GIS-based Tool for Forecasting Unusually Heavy Truck Loadings Resulting from Rapid Land Use Changes
  Presented by: Ahmad Alrashidan, University of Texas at Austin
  Discussant: TBA

3:00pm-3:30pm: Coffee Break

3:30pm-4:30pm

Rail Freight in the Northern Plaines
Room XXX
Session Chair: C. Gregory Bereskin, St Ambrose University

Analytical Models of the Grain Supply Chain: Quantifying the Advantages of Shuttle Rail Service
  Presented by: Hani Mahmassani, Northwestern University
  Discussant: James Nolan, University of Saskatchewan

Corn, Crude, and Cold: US Railroad Performance in 2014
  Presented by: David Ripplinger, North Dakota State University
  Discussant: C. Gregory Bereskin, St Ambrose University
Urban Transportation III
Room XXX
Session Chair: Kenneth Dallmeyer, Transportation Consultant

Attitudinal Market Segmentation Applied to Transit Service Area: An Updated Approach
Presented by: Kordel Braley, RSG
Christopher Chesnut, Utah Transit Authority
Discussant: David Boate, Gannett Fleming

New Ridership for Chicago’s Old Elevated Urban Rail System, 1990-2008
Presented by: Marcelo Lascano-Kezić, Universidad de San Martin
Discussant: Kenneth Dallmeyer, Transportation Consultant

Joint Session with NeLT - Forum for Next Logistics Technology, Korea
Room XXX
Session Chair: Sang Hei Choi, Korea Maritime Institute

Future of the Port Logistics Technology in Korea
Presented by: Ju Dong Park, Korea Maritime Institute

New Opportunity for Urban Freight System Based on Subway Infrastructure
Presented by: Hag-Seoung Kim, Korea Railroad Research Institute

Measuring Distribution Environment for Transport Packaging Development and Standardization
Presented by: Jongkyong Kim, Korea Conformity Laboratories
Discussant: Anthony Pagano, University of Illinois at Chicago

4:30pm: Adjournment

TRF Council Meeting (by invitation only)
Room: XXX
5:00pm to 6:15pm

7:00pm: Evening Social Event (by prepaid ticket)
Cliff Dwellers Club, 200 South Michigan Avenue, 22nd floor penthouse
Saturday April 22, 2017

10:00am-noon: Tours

**Tour 1. Hubs of Mid America: Chicago Union Station and Ogilvie Transportation Center**
Led by Joe Schwieterman
Free with conference registration
Meet at ZZZ

**Tour 2. In The Loop: Highlights of the Chicago Transit Authority Rapid Transit System**
Led by Graham Garfield, transit author and expert. Free with conference registration
Meet at ZZZ

**Tour 3. Cycling Chicago: A Divvy Ride on Downtown Bike Lanes to City Landmarks**
Led by Riley O’Neil, Chicago bike expert
Modest fee involved for bike rental.
Meet at ZZZ