

## ADB40 Committee/Subcommittee Meetings at TRB 2007

### **ADB40(1) - Emerging Methods and Developments in Urban Activity and Travel Analysis Subcommittee**

**Monday, January 22, 2007, 12:15pm- 1:15pm, Hilton, Adams**

Joan L. Walker and Laurie A. Garrow, presiding

*Sponsored by Transportation Demand Forecasting Committee (ADB40)*

### **ADB40(2) - Integrated Transportation and Land Use Joint Subcommittee**

**Monday, January 22, 2007, 5:45pm- 7:15pm, Hilton, Adams**

John Douglas Hunt and Eric J. Miller, presiding

*Sponsored by Transportation Demand Forecasting Committee (ADB40); Transportation and Land Development Committee (ADD30)*

### **ADA10(2) - Statewide Travel Demand Forecasting Joint Subcommittee**

**Monday, January 22, 2007, 7:30pm- 9:30pm, Hilton, Farragut**

Gregory Giaimo, presiding

*Sponsored by Statewide Multimodal Transportation Planning Committee (ADA10); Transportation Demand Forecasting Committee (ADB40)*

### **ADB40(3) - Research and Technology Transfer Subcommittee**

**Tuesday, January 23, 2007, 7:00am- 8:00am, Hilton, Adams**

Rick Donnelly, presiding

*Sponsored by Transportation Demand Forecasting Committee (ADB40)*

### **ADB40 - Transportation Demand Forecasting Committee**

**Wednesday, January 24, 2007, 10:15am-12:00pm, Hilton, Caucus**

Chandra R. Bhat, presiding

*Sponsored by Transportation Demand Forecasting Committee (ADB40)*

## Sessions Sponsored or Co-Sponsored by ADB40 Committee at TRB 2007

### **Workshop 116**

**Sunday, January 21, 2007, 8:30am-12:00pm, Hilton, Conservatory**

**New Wave of Travel Demand Modeling and Simulation**

**Part 1: Past the Starting Gate--New Activity-Based Models Currently Under Development at Planning Agencies (Part 2, Session 164)**

Charles L. Purvis, Metropolitan Transportation Commission, presiding

*Sponsored by Committee on Transportation Demand Forecasting (ADB40); Task Force on Moving Activity-Based Approaches To Practice (ADB60T)*

This workshop describes five activity-based models currently under development. These five models build upon the foundations established in the original wave of activity-based model development. Since the details of this second wave of activity-based models have not yet been widely disseminated, the processes for developing the models, the data used, and, where applicable, the model results obtained will be presented. Up-to-the-minute status reports will be provided.

### **Agenda**

- 8:30-8:45 Brief welcome and overview of the morning schedule - Chuck Purvis
- 8:45-9:10 San Francisco Bay Area Activity-Based Models: Specification & Training  
Chuck Purvis, Metropolitan Transportation Commission, Oakland, CA

- 9:15-9:35 The Denver Region Activity-Based Model: Progress Report and Details of Design  
Erik Sabina, Denver Regional Council of Governments
- 9:35-10:00 Activity Model and Four Step Model Comparison Tests in the Dallas-Fort Worth Area  
Ken Cervenka, North Central Texas Council of Governments
- 10:00-10:20 Break
- 10:20-10:45 Activity-Based and Tour-Based Modeling at the Atlanta Regional Commission: Progress Report on the Early Deployment of the Population Synthesizer, and Applications within the Expanded 20-County Modeling Domain  
Guy Rousseau, Atlanta Regional Commission
- 10:45-11:10 Catching Up to Land Use Data: Detailing Highway, Transit, and Non-Motorized Networks in a Parcel-Based Activity/Tour Model  
Bruce Greisenbeck, Sacramento Council of Governments (SACOG)
- 11:10-12:00 Questions, Answers and Comments from the Audience and Discussion  
(Chuck Purvis, moderator)
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## Workshop 164

**Sunday, January 21, 2007, 1:30pm- 5:00pm, Hilton, Lincoln East**

### **New Wave of Travel Demand Modeling and Simulation, Part 2: Bringing Activity-Based Models to Maturity (Part 1, Session 116)**

Konstadinos G. Goulias, University of California, Santa Barbara, presiding

*Sponsored by Task Force on Moving Activity-Based Approaches To Practice (ADB60T); Committee on Traveler Behavior and Values (ADB10); Committee on Transportation Demand Forecasting (ADB40)*

This workshop identifies paths that are under way worldwide to bring activity-based models to maturity, fill gaps, and advance the state of the practice. Lessons learned in developing activity-based approaches and land use-transportation integrated models are also provided. Emphasis is given to applications and field experience.

#### **Agenda**

- 1:30-1:35 Brief welcome and overview of the afternoon schedule – Kostas Goulias  
Experiences with Applying Activity Based Models in Five Different Contexts:  
Each speaker will summarize the procedures used to run their activity-based model system, and then will report on their experiences in applying the model to date.
- 1:35-2:00 San Francisco – Billy Charlton: San Francisco County Transportation Authority (SFCTA)
- 2:00-2:25 New York City – Kou-Ann Chiao, Sangeeta Bhowmick, Ali Mohseni: New York Metropolitan Transportation Council (NYMTC)
- 2:25-2:50 Columbus – Rebekah Anderson, Ohio Dept. of Transportation (ODOT), Zhuojan Jiang: Mid-Ohio Regional Planning Commission (MORPC)
- 2:50-3:10 Break
- 3:10-3:35 Sacramento – Bruce Greisenbeck: Sacramento Council of Governments (SACOG)
- 3:35-4:00 Toronto – Eric Miller: University of Toronto
- 4:00-5:00 Panel Discussion: Audience interaction with all speakers (Kostas Goulias, moderator)

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## **Workshop 167**

**Sunday, January 21, 2007, 1:30pm- 5:00pm, Hilton, Thoroughbred**

### **Doctoral Student Research in Transportation Modeling**

David J. Lovell, University of Maryland, College Park, presiding

*Sponsored by Committee on Transportation Network Modeling (ADB30); Committee on Traffic Flow Theory and Characteristics (AHB45); Committee on Traveler Behavior and Values (ADB10); Committee on Transportation Demand Forecasting (ADB40)*

This half-day seminar consists of reports of Ph.D. student research on transportation modeling and travel behavior. Reports of recently completed or nearly completed Ph.D. dissertations and research in progress are featured.

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## **Workshop 168**

**Sunday, January 21, 2007, 1:30pm- 5:00pm, Hilton, Conservatory**

### **Integrating Demand and Supply Travel Models**

Thomas F. Rossi, Cambridge Systematics, Inc., presiding

*Sponsored by Committee on Transportation Demand Forecasting (ADB40); Committee on Traveler Behavior and Values (ADB10); Committee on Transportation Network Modeling (ADB30)*

In research and practice, there have been many advances in both travel demand and supply side modeling, but there has been less attention to the integration of these advanced models. Current integration techniques (i.e., loose coupling of these models to transfer data from one to the other) do not take advantage of the added behavioral data available in each model nor do they achieve consistency among parameters that are used in both demand and supply models. The proposed workshop is to explore the various different levels of integration that are possible for demand and supply travel models: incorporating specific features of demand modeling into supply side modeling, such as path-building parameters; incorporating specific features of supply modeling into demand side modeling, such as value-of-time parameters for different market segments (i.e., truck trips, work trips, by income group, etc.) into demand model components, such as trip distribution and time of day; incorporating specific features of activity-based simulation modeling in advanced travel simulation models, such as dynamic traffic assignment, route choice or traffic microsimulation models, and vice versa; and integrating demand and supply travel models to take advantage of behavioral details of each person and each vehicle developed in the demand model for use in refining the supply model (e.g., value of time for each person could be used in assigning trips to toll roads in the traffic operation or route choice model).

### **Agenda**

- 1:30-1:40 INTRODUCTION  
Joan Walker, Boston University
- 1:40-2:00 OVERVIEW  
Srini Peeta, Purdue University
- 2:00-3:15 PANEL 1: STATE OF BEST PRACTICE AND NEEDS  
Maren Outwater (Moderator), Cambridge Systematics  
Ken Cervenka, North Central Texas Council of Governments  
Rick Donnelly, PB Consult  
Rick Dowling, Dowling Associates
- 3:15-3:30 BREAK
- 3:30-4:40 PANEL 2: ADVANCING PRACTICE  
Kay Axhausen (Moderator), Swiss Federal Institute of Technology Zurich  
Chandra Bhat, University of Texas at Austin  
David Boyce, University of Illinois at Chicago  
Hani Mahmassani, University of Maryland  
Amelia Regan, University of California at Irvine
- 4:40-5:00 CLOSING COMMENTS & QUESTIONS FOR FUTURE DIRECTIONS  
Harry Timmermans, Eindhoven University of Technology

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## Session 224

**Monday, January 22, 2007, 8:00am- 9:45am, Hilton, Georgetown East**

### **Emerging Modeling Methods in Land Use: Transportation Demand Analysis**

Chandra R. Bhat, University of Texas, Austin, presiding

*Sponsored by Committee on Transportation Demand Forecasting (ADB40)*

This is a preview of the poster session. Each presenter will offer a 5-minute summary of their paper that will be presented in a subsequent poster session.

#### **Zoning Decisions in Transport Planning and Their Impact on the Precision of Results (07-0421)**

Luis Garrido Martínez, Instituto Superior Técnico, Portugal

José Manuel Viegas, Instituto Superior Técnico, Portugal

Elisabete A. Silva, Catholic University, Portugal

#### **Bayesian Framework for Integration of Multiple Transport Information Sources (07-2165)**

John W. Polak, Imperial College London, United Kingdom

Charles Lindveld, Imperial College London, United Kingdom

Miles Logie, Imperial College London, United Kingdom

#### **Trip Table Realizations and Their Impacts on Assigned Link Flows (07-1965)**

Wenjing Pu, University of Illinois, Chicago

David E. Boyce, Northwestern University

Jie Lin, University of Illinois, Chicago

#### **Tests of Dynamic Extensions to a Family of Trip Table Refinement Methods (07-0406)**

Alan J. Horowitz, University of Wisconsin, Milwaukee

Layali Sameer Dajani, University of Wisconsin, Milwaukee

#### **Robust Approach to Modeling Choice of Location in Daily Activity Sequences (07-0491)**

Theo Arentze, Eindhoven University of Technology, Netherlands

Harry J.P. Timmermans, Eindhoven University of Technology, Netherlands

#### **Latent Class Accelerated Hazard Model of Activity Episode Durations (07-2625)**

Backjin Lee, Hiroshima University, Japan

Harry J.P. Timmermans, Eindhoven University of Technology, Netherlands

#### **Distribution of Willingness to Pay for a Reliable Journey (07-0068)**

Yaron Hollander, University of Leeds, United Kingdom

#### **Spatial Scenario Analysis Using Discrete Choice Models with GIS: Case Study of Transport Choices in New York City (07-0591)**

Deborah Salon, University of California, Davis

#### **Bounded Rationality and Transportation Behavior: Lessons for Public Policy (07-2451)**

Jonathan L. Gifford, George Mason University

Cristina Checherita, George Mason University

#### **Implication of Disregarding Income Effects in Assessment of User Benefit Using Discrete Choice Models (07-1473)**

Elisabetta Cherchi, University of Cagliari, Italy

John W. Polak, Imperial College London, United Kingdom

#### **Incorporating Car-Type Preferences and Intrahousehold Car Allocation into Travel Demand Models (07-1859)**

Peter Vovsha, PB Consult, Inc.

Eric Petersen, Rand Europe, United Kingdom

#### **Modeling Overlap in Multimodal Route Choice by Inclusion of Trip Part Specific Path Size Factors (07-1077)**

Sascha Hoogendoorn-Lanser, Delft University of Technology, Netherlands

Piet H. L. Bovy, Delft University of Technology, Netherlands

#### **Modeling Route Choice Behavior: How Relevant Is Choice Set Composition? (07-0326)**

Carlo Giacomo Prato, Technion - Israel Institute of Technology

Shlomo Bekhor, Technion - Israel Institute of Technology

#### **Event-Driven Queue-Based Microsimulation of Traffic Flow (07-1078)**

David Charypar, ETH Honggerberg, Switzerland

Kay W. Axhausen, Swiss Federal Institute of Technology Zurich

Kai Nagel, Technical University of Berlin, Germany

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## Session 234

**Monday, January 22, 2007, 8:00am- 9:45am, Hilton, Thoroughbred**

### **Latest and Greatest in Activity and Time Use Analysis**

Konstadinos G. Goulias, University of California, Santa Barbara, presiding

*Sponsored by Committee on Traveler Behavior and Values (ADB10); Committee on Transportation Demand Forecasting (ADB40); Task Force on Moving Activity-Based Approaches To Practice (ADB60T)*

This is a preview of the poster session. Each presenter will offer a 5-minute summary of their paper that will be presented in a subsequent poster session.

#### **Social Dimension in Action: Multilevel, Personal Network Model of Social Activity Frequency (07-1026)**

Juan Antonio Carrasco, University of Toronto, Canada

Eric J. Miller, University of Toronto, Canada

#### **Development of Segmentation Scheme for Evaluation and Prediction of Activity-Travel Sequences (07-0801)**

Davy Janssens, Hasselt University, Belgium

Geert Wets, Transportation Research Institute, Belgium

Tom Brijs, Hasselt University, Belgium

Koen Vanhoof, Limburg University, Belgium

#### **When Dimension of Coupling Constraints (07-1398)**

Tim Schwanen, Utrecht University, Netherlands

#### **Intrahousehold Interaction Analysis Among Husband, Wife, and Child Using Joint Time Allocation Model (07-0542)**

Hironori Kato, University of Tokyo, Japan

Manabu Matsumoto, West Japan Railway Company

#### **Validity of Using Activity Type to Structure Tour-Based Scheduling Models (07-1537)**

Sean T. Doherty, Wilfrid Laurier University, Canada

Abolfazl Mohammadian, University of Illinois, Chicago

#### **Human Interaction Under Uncertainty (07-0132)**

Tijs Neutens, University of Ghent, Belgium

Frank Witlox, University of Ghent, Belgium

Nico Van de Weghe, University of Ghent, Belgium

Philippe De Maeyer, University of Ghent, Belgium

#### **Latent Class Analysis of Leisure Activity Patterns: Segments and Their Covariates (07-0484)**

Astrid Kemperman, Eindhoven University of Technology, Netherlands

Harry J .P. Timmermans, Eindhoven University of Technology, Netherlands

#### **Capturing Human Activity Spaces: New Geometries (07-1823)**

Rohit K. Rai, Indian Institute of Technology, Guwahati

Michael Balmer, Swiss Federal Institute of Technology Zurich

Marcel Rieser, Technical University of Berlin, Germany

V.S. Vaze, Indian Institute of Technology, Guwahati

Stefan Schönfelder, Trafico Verkehrsplanung, Austria

Kay W. Axhausen, Swiss Federal Institute of Technology Zurich

#### **Point-Based Accessibility and Individual-Based Accessibility (07-0803)**

Cynthia Chen, City College of New York

#### **Gender-Role-Based Differences in Time Allocation: Case Study of Shenzhen, China (07-0574)**

Xinyu Cao, North Dakota State University

Yanwei Chai, Peking University, China

#### **Influence of Personal and Activity Attributes on Discretionary Activity Location Choice: In Home or Out of Home? (07-1437)**

Kelly J. Clifton, University of Maryland, College Park

Gulsah Akar, University of Maryland, College Park

Sean T. Doherty, Wilfrid Laurier University, Canada

#### **What Can Activity Engagement Tell Us About Daily Drive Time and Walking Time? (07-0599)**

Yingling Fan, University of North Carolina, Chapel Hill

Asad J. Khattak, University of North Carolina, Chapel Hill

**Activity Patterns in Space and Time: Quantifying the Hagerstrand Trajectories** (07-0057)

Clarke Wilson, Canada Mortgage and Housing Corporation

**On Modeling Adults' Daily Time Use by Activity Purpose and Accompaniment Arrangement** (07-1869)

Aarti Kapur, University of Texas, Austin

Chandra R. Bhat, University of Texas, Austin

**How Long and How Quickly Do Different Groups Chain Their Fixed Activities?** (07-1958)

Rana Al-Jammal, University of Massachusetts, Amherst

John Collura, University of Massachusetts, Amherst

**Identifying Skeletal Information of Activity Patterns of a Group** (07-2772)

Chang-Hyeon Joh, Kyung Hee University, Korea

Theo Arentze, Eindhoven University of Technology, Netherlands

Harry J .P. Timmermans, Eindhoven University of Technology, Netherlands

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**Session 287**

**Monday, January 22, 2007, 10:15am-12:00pm, Hilton, Thoroughbred**

**Developments in Travel Behavior Modeling, Simulation, and Policy Analysis Around the World**

Ram M. Pendyala, Arizona State University, presiding

*Sponsored by Committee on Traveler Behavior and Values (ADB10); Committee on Transportation Demand Forecasting (ADB40)*

This is a poster preview session in which each author will be given the opportunity to make a 5-minute summary presentation of the paper with no more than 5 slides (including the title slide).

**Modeling Household Vehicle Transaction Behavior: Competing Risk Duration Approach** (07-2014)

Abolfazl Mohammadian, University of Illinois, Chicago

Taha H. Rashidi, University of Illinois, Chicago

**Agent-Based Activity Chaining Model for Advanced Tourist Information and Scheduling Systems** (07-2672)

Hyunmyung Kim, University of California, Irvine

Jun-Seok Oh, Western Michigan University

R. Jayakrishnan, University of California, Irvine

**Dynamic User Equilibrium Model Considering Driver's Different Cognition of Configuration of Traffic Networks** (07-1072)

Li Maosheng, Southeast University, China

**Multimodality: Facets and Causes of Sustainable Mobility Behavior** (07-2442)

Claudia Nobis, German Aerospace Center

**Application of Rule-Based Approach to Multimodal Choice Set Generation** (07-1076)

Sascha Hoogendoorn-Lanser, Delft University of Technology, Netherlands

Piet H. L. Bovy, Delft University of Technology, Netherlands

Rob Van Nes, Delft University of Technology, Netherlands

**Mixed-Logit Heterogeneous Intertemporal Lifetime Utility Model of Car-Leasing Behavior Using Conjoint Choice Data** (07-0386)

Vladislav Golounov, Tilburg University, Netherlands

Benedict Dellaert, Maastricht University, Netherlands

Arthur van Soest, Tilburg University, Netherlands

Harry J .P. Timmermans, Eindhoven University of Technology, Netherlands

**Examination of Student Travel Mode Choice** (07-2616)

Maneesh Mahlawat, Texas A&M University

Selvaraj Rayan, Texas A&M University

Shamanth Kuchangi, Texas A&M University

Sunil Patil, Texas A&M University

Mark W. Burris, Texas A&M University

**Efficient Path and Subpath Storage Data Structures for Network Travel Analysis with Route Behavioral Elements** (07-3029)

Yu Zhang, University of California, Irvine

James E. Marca, University of California, Irvine

Craig Rindt, University of California, Irvine  
R. Jayakrishnan, University of California, Irvine  
Michael G. McNally, University of California, Irvine

**Estimating Active and Former Drivers: Critical Link in Understanding Future Travel Demand (07-2561)**

Oliver Page, University of South Florida  
Steven E. Polzin, University of South Florida

**Descriptive Analysis of Long-Distance Travel by Personal Vehicles Using 2004 Commute Atlanta Data (07-1688)**

Hainan Li, Georgia Institute of Technology  
Randall Guensler, Georgia Institute of Technology  
Jennifer Harper Ogle, Clemson University  
Jungwook Jun, Georgia Institute of Technology  
Vetri Venthan Elango, Georgia Institute of Technology

**Communication with Nondrivers for Promoting Long-Term Travel Behavior Modification (07-2820)**

Satoshi Fujii, Tokyo Institute of Technology, Japan

**Stochastic Congestion and Pricing Model with Endogenous Departure Time Selection and Heterogeneous Travelers (07-1035)**

Wuping Xin, University of Minnesota, Twin Cities  
David Matthew Levinson, University of Minnesota, Twin Cities

**Contribution of Confusion Matrix to Analysis of Mode Choice in Montreal (07-2925)**

Robert Chapleau, Ecole Polytechnique de Montreal, Canada  
Timothy Spurr, Ecole Polytechnique de Montreal, Canada

**Examination of Respondent Reported Attribute Processing Strategies in Stated-Choice Experiments Constructed from Revealed-Preference Data (07-2069)**

John Matthew Rose, University of Sydney, Australia  
David A. Hensher, University of Sydney, Australia  
Stephane Hess, Imperial College London, United Kingdom

**Interactions Between Residential Relocations, Life Course Events, and Daily Commuting Distances (07-0880)**

Jan Prillwitz, Center for Environmental Research, Germany  
Martin Lanzendorf, Center for Environmental Research, Germany

**Household Car Ownership in Relation to Residential and Work Location (07-0220)**

Kees Maat, Delft University of Technology, Netherlands  
Harry J .P. Timmermans, Eindhoven University of Technology, Netherlands

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**Poster Session 343**

**Monday, January 22, 2007, 2:30 PM - 5:00 PM, Hilton, International Center**

**Planning Mega Session**

Ram M. Pendyala, Arizona State University, presiding  
*Sponsored by Planning and Environment Group (AD000); Transportation Education and Training Committee (ABG20); Metropolitan Policy, Planning, and Processes Committee (ADA20); Transportation Planning for Small and Medium-Sized Communities Committee (ADA30); Transportation Needs for National Parks and Public Lands Committee (ADA40); Telecommunications and Travel Behavior Committee (ADB20); Transportation and Land Development Committee (ADD30); Performance Measurement Committee (ABC30); Traveler Behavior and Values Committee (ADB10); Moving Activity-Based Approaches To Practice Task Force (ADB60T); Transportation Demand Forecasting Committee (ADB40)*

**Framework for Defining and Estimating Travel Time Reliability (07-1675) - A11**

Lily Elefteriadou, University of Florida  
Xiao Cui, University of Florida

**Characteristics Analysis of Road Network Reliability in Beijing Based on the Data Logs from Taxis (07-1420) - A9**

Kun Chen, Beijing Jiaotong University, China  
Lei Yu, Texas Southern University  
Jifu Guo, Beijing Transportation Research Center  
Huimin Wen, Beijing Transportation Research Center

**What-If Scenarios for Delaware Valley Region: Application of Scenario Planning in a Developed Area** (07-2649) - L11

Jienki Synn, Federal Highway Administration (FHWA)

**Systemwide Analysis for Congestion Management: Lessons Learned from Preparing the Congestion Management Process at Delaware Valley Regional Planning Commission** (07-1776) - L10

Zoe Neaderland, Delaware Valley Regional Planning Commission

**Use of Google Earth as Visualization Tool to Aid Public Involvement and Integration of NEPA with Transportation Planning** (07-0678) - L9

Craig T. Casper, Pikes Peak Metropolitan Planning Organization

Frank Orr, CH2M Hill

**Optimal Congestion Pricing Design Methods in Integrated Location and Transportation Models** (07-0709) - L4

Jiang Qian Ying, Gifu University, Japan

**Office Location Decisions: Analysis of the Results of SOLD** (07-1711) - L6

Ilan Elgar, University of Toronto, Canada

Eric J. Miller, University of Toronto, Canada

**Long-Term Analysis of Location Choice Behaviors Related to Transit Network and Household Attributes** (07-2042) - L5

Keiichi Kitazume, Kansai University, Japan

**A Multiclass Bid-Rent Network Equilibrium Model** (07-0716) - L7

Justin Sueun Chang, Korea Transport Institute

**Introduction of Dynamic Features in a Random-Utility-Based Multiregional Input-Output Model of Trade, Production, and Location Choice** (07-1868) - L8

Tian Huang, University of Texas, Austin

Kara M. Kockelman, University of Texas, Austin

**Notable Practices for Incorporating Rapidly Urbanizing Rural Areas into the Metropolitan Planning Process** (07-2211) - F10

John H. Overman, Texas Transportation Institute

Linda K. Cherrington, Texas Transportation Institute

**Small-Town Mayors in North Carolina: Transportation-Related Needs and Concerns and Experiences Interacting with North Carolina Department of Transportation** (07-0183) - F9

Scott D. Bradshaw, Elizabeth City State University

Reed Adams, Elizabeth City State University

Michael Worthington, Elizabeth City State University

**Industry-Specific Correlations Between Demand for Transportation and Communications in the U.S. Economy, 1947-1997** (07-2385) - L1

Taihyeong Lee, University of California, Davis

Patricia L. Mokhtarian, University of California, Davis

**Exploring the Fragmentation of Activity Gold Mine: The Influence of ICT Use on Daily Activity Patterns** (07-1509) - L2

Christa Hubers, Utrecht University, Netherlands

Tim Schwanen, Utrecht University, Netherlands

Martin Dijst, Utrecht University, Netherlands

**Using Longitudinal Surveys to Understand the Changing Nature of ICT Use and Travel** (07-3312) - L3

Ryan D. Wilson, University of Minnesota, Twin Cities

Kevin J. Krizek, University of Minnesota, Twin Cities

Susan L. Handy, University of California, Davis

**Successful Implementation of Programmatic 4(f) Net Benefit Evaluation at Valley Forge National Historical Park** (P07-0278) - G10

Daniel J. Carl, Valley Forge National Historical Park

**Living Within Your Boundaries, yet Beyond Your Means: True Meaning of Intergovernmental Cooperation at Saguaro National Park** (P07-0279) - G8

Dick Schaffer, Saguaro National Park

**Use of Automated Lanes at National Park Entrance Stations** (P07-0282) - G6

Jonathan Upchurch, National Park Foundation

**Partnering to Provide ITS and Visitor Information Outside Glacier National Park** (P07-0283) - G4

Lisa Ballard, Current Transportation Solutions

**Examining the Consistency of Preferences About Travel and Neighborhood Characteristics in Residential Location Decisions** (07-3404) - E10

Ryan D. Wilson, University of Minnesota, Twin Cities  
Kevin J. Krizek, University of Minnesota, Twin Cities  
Ahmed M. El-Geneidy, University of Minnesota, Twin Cities

**Transportation Costs, Inequities, and Trade-Offs** (07-1495) - E9

Thomas W. Sanchez, Virginia Polytechnic Institute and State University  
Carrie Makarewicz, Center for Neighborhood Technology  
Peter M. Haas, Center for Neighborhood Technology  
Casey J. Dawkins, Virginia Polytechnic Institute and State University

**Transport Infrastructure and Spatial Development in Switzerland Between 1950 and 2000** (07-1492) - H11

Martin Tschopp, Swiss Federal Institute of Technology Zurich  
Kay W. Axhausen, Swiss Federal Institute of Technology Zurich

**Factors Affecting Work Site Mode Choice: Findings from Portland, Oregon** (07-1140) - E7

Jennifer Dill, Portland State University  
Erin Wilson, Parsons Brinckerhoff

**Transportation Infrastructure Investment and Economic Activity: Evidence Using Vector Autoregression, Error Correction, and Directed Acyclic Graphs** (07-1004) - E6

Steve K Peterson, Washington State University  
Eric L. Jessup, Washington State University

**Urban Density, Productivity, and the Effect of Road Traffic Congestion** (07-0357) - E5

Daniel Joseph Graham, Imperial College London, United Kingdom

**Effects of Transportation Accessibility on Residential Property Values: An Application of Spatial Hedonic Price Model in the Seoul Metropolitan Area** (07-0175) - E4

Kangwon Shin, Arizona State University  
Simon Paul Washington, Arizona State University  
Keechoo Choi, Ajou University, Korea

**Use of Land Use and Economic Modeling in Transport Planning: Experience with DELTA** (07-3314) - E2

Olga Feldman, David Simmonds Consultancy  
David C. Simmonds, David Simmonds Consultancy, United Kingdom  
Andy Dobson, David Simmonds Consultancy

**Impacts of Time-of-Day Pricing on Travel Behavior: General Findings from Port Authority of New York and New Jersey Initiative** (07-0269) - A7

Jose Holguin-Veras, Rensselaer Polytechnic Institute  
Qian Wang, Rensselaer Polytechnic Institute  
Ning Xu, Rensselaer Polytechnic Institute  
Kaan Ozbay, Rutgers University  
Juan Carlos Zorrilla, Cambridge Systematics, Inc.

**New Jersey Turnpike's Time-of-Day Pricing Initiative: Behavioral Impacts and Observed Role of Travel Distance on Underlying Elasticities** (07-0270) - A5

Jose Holguin-Veras, Rensselaer Polytechnic Institute  
Ning Xu, Rensselaer Polytechnic Institute  
Qian Wang, Rensselaer Polytechnic Institute  
Kaan Ozbay, Rutgers University  
Juan Carlos Zorrilla, Cambridge Systematics, Inc.

**Social Dimension in Action: Multilevel, Personal Network Model of Social Activity Frequency** (P07-1183) - K11

Juan Antonio Carrasco, University of Toronto, Canada  
Eric J. Miller, University of Toronto, Canada

**Development of Segmentation Scheme for Evaluation and Prediction of Activity-Travel Sequences** (P07-1184) - K5

Davy Janssens, Hasselt University, Belgium  
Geert Wets, Transportation Research Institute, Belgium  
Tom Brijs, Hasselt University, Belgium  
Koen Vanhoof, Limburg University, Belgium

**The When Dimension of Coupling Constraints** (P07-1185) - K3

Tim Schwanen, Utrecht University, Netherlands

- Intrahousehold Interaction Analysis Among Husband, Wife, and Child Using Joint Time Allocation Model** (P07-1186) - K1  
Hironori Kato, University of Tokyo, Japan  
Manabu Matsumoto, West Japan Railway Company
- Validity of Using Activity Type to Structure Tour-Based Scheduling Models** (07-1537) (P07-1187) - K9  
Sean T. Doherty, Wilfrid Laurier University, Canada  
Abolfazl Mohammadian, University of Illinois, Chicago
- Human Interaction Under Uncertainty** (07-0132) (P07-1188) - J11  
Tijs Neutens, University of Ghent, Belgium  
Frank Witlox, University of Ghent, Belgium  
Nico Van de Weghe, University of Ghent, Belgium  
Philippe De Maeyer, University of Ghent, Belgium
- Latent Class Analysis of Leisure Activity Patterns: Segments and Their Covariates** (07-0484) (P07-1189) - K12  
Astrid Kemperman, Eindhoven University of Technology, Netherlands  
Harry J .P. Timmermans, Eindhoven University of Technology, Netherlands
- Capturing Human Activity Spaces: New Geometries** (07-1823) (P07-1190) - H9  
Rohit K. Rai, Indian Institute of Technology, Guwahati  
Michael Balmer, Swiss Federal Institute of Technology Zurich  
Marcel Rieser, Technical University of Berlin, Germany  
V.S. Vaze, Indian Institute of Technology, Guwahati  
Stefan Schönfelder, Trafico Verkehrsplanung, Austria  
Kay W. Axhausen, Swiss Federal Institute of Technology Zurich
- Point-Based Accessibility and Individual-Based Accessibility** (07-0803) (P07-1191) - J9  
Cynthia Chen, City College of New York
- Gender-Role-Based Differences in Time Allocation: Case Study of Shenzhen, China** (07-0574) (P07-1192) - J7  
Xinyu Cao, North Dakota State University  
Yanwei Chai, Peking University, China
- Influence of Personal and Activity Attributes on Discretionary Activity Location Choice: In-Home or Out-of-Home?** (07-1437) (P07-1193) - K7  
Kelly J. Clifton, University of Maryland, College Park  
Gulsah Akar, University of Maryland, College Park  
Sean T. Doherty, Wilfrid Laurier University, Canada
- What Can Activity Engagement Tell Us About Daily Drive Time and Walking Time?** (07-0599) (P07-1194) - J5  
Yingling Fan, University of North Carolina, Chapel Hill  
Asad J. Khattak, University of North Carolina, Chapel Hill
- Activity Patterns in Space and Time: Quantifying the Hagerstrand Trajectories** (07-0057) (P07-1195) - J3  
Clarke Wilson, Canada Mortgage and Housing Corporation
- On Modeling Adults' Daily Time Use by Activity Purpose and Accompaniment Arrangement** (07-1869) (P07-1196) - J1  
Aarti Kapur, University of Texas, Austin  
Chandra R. Bhat, University of Texas, Austin
- For How Long and How Quickly Do Different Groups Chain Their Fixed Activities?** (07-1958) (P07-1197) - J2  
Rana Al-Jammal, University of Massachusetts, Amherst  
John Collura, University of Massachusetts, Amherst
- Identifying Skeletal Information of Activity Patterns of a Group** (07-2772) (P07-1198) - K10  
Chang-Hyeon Joh, Kyung Hee University, Korea  
Theo Arentze, Eindhoven University of Technology, Netherlands  
Harry J .P. Timmermans, Eindhoven University of Technology, Netherlands
- Modeling Household Vehicle Transaction Behavior: Competing Risk Duration Approach** (07-2014) (P07-1199) - F8  
Abolfazl Mohammadian, University of Illinois, Chicago  
Taha H. Rashidi, University of Illinois, Chicago
- Agent-Based Activity Chaining Model for Advanced Tourist Information and Scheduling Systems** (07-2672) (P07-1200) - F7  
Hyunmyung Kim, University of California, Irvine  
Jun-Seok Oh, Western Michigan University  
R. Jayakrishnan, University of California, Irvine

**Dynamic User Equilibrium Model Considering Driver's Different Cognition of Configuration of Traffic Networks** (07-1072) (P07-1201) - F6

Li Maosheng, Southeast University, China

**Multimodality: Facets and Causes of Sustainable Mobility Behavior** (07-2442) (P07-1202) - J4

Claudia Nobis, German Aerospace Center

**Application of Rule-Based Approach to Multimodal Choice Set Generation** (07-1076) (P07-1203) - D4

Sascha Hoogendoorn-Lanser, Delft University of Technology, Netherlands

Piet H. L. Bovy, Delft University of Technology, Netherlands

Rob Van Nes, Delft University of Technology, Netherlands

**Mixed Logit Heterogeneous Intertemporal Lifetime Utility Model of Car Leasing Behavior Using Conjoint Choice Data** (07-0386) (P07-1204) - K8

Vladislav Golounov, Tilburg University, Netherlands

Benedict Dellaert, Maastricht University, Netherlands

Arthur van Soest, Tilburg University, Netherlands

Harry J.P. Timmermans, Eindhoven University of Technology, Netherlands

**Examination of Student Travel Mode Choice** (07-2616) (P07-1205) - F5

Maneesh Mahlawat, Texas A&M University

Selvaraj Rayan, Texas A&M University

Shamanth Kuchangi, Texas A&M University

Sunil Patil, Texas A&M University

Mark W. Burris, Texas A&M University

**Efficient Path and Subpath Storage Data Structures for Network Travel Analysis with Route Behavioral Elements** (07-3029) (P07-1206) - F4

Yu Zhang, Moffatt & Nichol Engineers

James E. Marca, University of California, Irvine

Craig Rindt, University of California, Irvine

R. Jayakrishnan, University of California, Irvine

Michael G. McNally, University of California, Irvine

**Estimating Active and Former Drivers: Critical Link in Understanding Future Travel Demand** (07-2561) (P07-1207) - F3

Oliver Page, University of South Florida

Steven E. Polzin, University of South Florida

**Descriptive Analysis of Long-Distance Travel by Personal Vehicles Using 2004 Commute Atlanta Data** (07-1688) (P07-1208) - F2

Hainan Li, Georgia Institute of Technology

Randall Guensler, Georgia Institute of Technology

Jennifer Harper Ogle, Clemson University

Jungwook Jun, Georgia Institute of Technology

Vetri Venthan Elango, Georgia Institute of Technology

**Communication with Nondrivers for Promoting Long-Term Travel Behavior Modification** (07-2820) (P07-1209) - E1

Satoshi Fujii, Tokyo Institute of Technology, Japan

**Stochastic Congestion and Pricing Model with Endogenous Departure Time Selection and Heterogeneous Travelers** (07-1035) (P07-1210) - D12

Wuping Xin, University of Minnesota, Twin Cities

David Matthew Levinson, University of Minnesota, Twin Cities

**Contribution of Confusion Matrix to Analysis of Mode Choice in Montreal** (07-2925) (P07-1211) - D10

Robert Chapleau, Ecole Polytechnique de Montreal, Canada

Timothy Spurr, Ecole Polytechnique de Montreal, Canada

**Examination of Respondent Reported Attribute Processing Strategies in Stated-Choice Experiments Constructed from Revealed-Preference Data** (07-2069) (P07-1212) - D8

John Matthew Rose, University of Sydney, Australia

David A. Hensher, University of Sydney, Australia

Stephane Hess, ETH Zurich - Swiss Federal Institute of Technology

**Interactions Among Residential Relocations, Life Course Events, and Daily Commuting Distances** (07-0880) (P07-1213) - E8

Jan Prillwitz, Center for Environmental Research, Germany

Martin Lanzendorf, Center for Environmental Research, Germany

**Household Car Ownership in Relation to Residential and Work Location** (07-0220) (P07-1214) - K6

Kees Maat, Delft University of Technology, Netherlands

Harry J.P. Timmermans, Eindhoven University of Technology, Netherlands

**Zoning Decisions in Transport Planning and Their Impact on the Precision of Results** (07-0421) (P07-1215) - D6

Luis Garrido Martínez, Instituto Superior Técnico, Portugal

José Manuel Viegas, Instituto Superior Técnico, Portugal

Elisabete A. Silva, Catholic University, Portugal

**Bayesian Framework for Integration of Multiple Transport Information Sources** (07-2165) (P07-1216) - C3

John W. Polak, Imperial College London, United Kingdom

Charles Lindveld, Imperial College London, United Kingdom

Miles Logie, Imperial College London, United Kingdom

**Trip Table Realization and Impacts on Assigned Link Flows** (07-1965) (P07-1217) - C1

Wenjing Pu, University of Illinois, Chicago

David E. Boyce, Northwestern University

Jie Lin, University of Illinois, Chicago

**Tests of Dynamic Extensions to Family of Trip Table Refinement Methods** (07-0406) (P07-1218) - H5

Alan J. Horowitz, University of Wisconsin, Milwaukee

Layali Sameer Dajani, University of Wisconsin, Milwaukee

**Robust Approach to Modeling Choice of Locations in Daily Activity Sequences** (07-0491) (P07-1219) - K4

Theo Arentze, Eindhoven University of Technology, Netherlands

Harry J.P. Timmermans, Eindhoven University of Technology, Netherlands

**Latent Class Accelerated Hazard Model of Activity Episode Durations** (07-2625) (P07-1220) - K2

Backjin Lee, Korea Research Institute for Human Settlements

Harry J.P. Timmermans, Eindhoven University of Technology, Netherlands

**Distribution of Willingness to Pay for a Reliable Journey** (07-0068) (P07-1221) - H3

Yaron Hollander, University of Leeds, United Kingdom

**Spatial Scenario Analysis Using Discrete Choice Models with GIS: Case Study of Transport Choices in New York City** (07-0591) (P07-1222) - H1

Deborah Salon, University of California, Davis

**Bounded Rationality and Transportation Behavior: Lessons for Public Policy** (07-2451) (P07-1223) - J12

Jonathan L. Gifford, George Mason University

Cristina Checherita, George Mason University

**Implication of Disregarding Income Effects in Assessment of User Benefit Using Discrete Choice Models** (07-1473) (P07-1224) - J10

Elisabetta Cherchi, University of Cagliari, Italy

John W. Polak, Imperial College London, United Kingdom

**Incorporating Car-Type Preferences and Intra-Household Car Allocation into Travel Demand Models** (07-1859) (P07-1225) - J8

Peter Vovsha, PB Consult, Inc.

Eric Petersen, Rand Europe, United Kingdom

**Modeling Overlap in Multimodal Route Choice by Inclusion of Trip Part Specific Path Size Factors** (07-1077) (P07-1226) - D2

Sascha Hoogendoorn-Lanser, Delft University of Technology, Netherlands

Piet H. L. Bovy, Delft University of Technology, Netherlands

**Modeling Route Choice Behavior: How Relevant Is the Choice Set Composition?** (07-0326) (P07-1227) - J6

Carlo Giacomo Prato, Technion - Israel Institute of Technology

Shlomo Bekhor, Technion - Israel Institute of Technology

**Event-Driven Queue-Based Microsimulation of Traffic Flow** (07-1078) (P07-1228) - H7

David Charypar, ETH Honggerberg, Switzerland

Kay W. Axhausen, Swiss Federal Institute of Technology Zurich

Kai Nagel, Technical University of Berlin, Germany

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## Session 380

**Monday, January 22, 2007, 3:45pm- 5:30pm, Hilton, Georgetown West**

### **Showcase of Nationwide Personal Transportation Survey and National Household Travel Survey Data Analyses and Applications**

Heather Contrino, Federal Highway Administration, presiding

*Sponsored by Committee on Urban Transportation Data and Information Systems (ABJ30); Committee on National Transportation Data Requirements and Programs (ABJ10); Committee on Traveler Behavior and Values (ADB10); Committee on Travel Survey Methods (ABJ40); Committee on Transportation Demand Forecasting (ADB40)*

#### **Road Map of 14 Showcase NPTS and NHTS Data Analyses and Applications (P07-0436)**

Jonaki Bose, Bureau of Transportation Statistics

Ed Christopher, Federal Highway Administration

#### **Housing Choices and Travel of Older Adults: Using AHS and NPTS-NHTS Data to Plan for the Future (07-1407)**

Jennifer Dill, Portland State University

Tomoko Kanai, Portland State University

#### **Investigating the Transferability of National Household Travel Survey Data (07-2030)**

Abolfazl Mohammadian, University of Illinois, Chicago

Yongping Zhang, University of Illinois, Chicago

#### **Modeling Side Stop Purpose During Long-Distance Travel Using 1995 American Travel Survey (07-3113)**

Jeffrey James LaMondia, University of Texas, Austin

Chandra R. Bhat, University of Texas, Austin

#### **Interactive Tool to Compare and Communicate Traffic Safety Risks: Travel Risk Evaluation and Decision Support System (07-1332)**

David Gerard, Carnegie Mellon University

Paul S. Fischbeck, Carnegie Mellon University

Barbara Gengler, Multidimensionality, LLC

Randy S. Weinberg, Carnegie Mellon University

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## Session 399

**Monday, January 22, 2007, 7:30pm- 9:30pm, Hilton, Thoroughbred**

### **Behavioral Decision Processes and Learning Mechanisms**

Sean T. Doherty, Wilfrid Laurier University, Canada, presiding

*Sponsored by Committee on Traveler Behavior and Values (ADB10); Committee on Transportation Demand Forecasting (ADB40); Task Force on Moving Activity-Based Approaches To Practice (ADB60T)*

#### **Modeling Learning in Route Choice (07-1386)**

Enide Bogers, Delft University of Technology, Netherlands

Michel Bierlaire, Ecole Polytechnique Federale de Lausanne, Switzerland

Serge Hoogendoorn, Delft University of Technology, Netherlands

#### **Traveler Decision Making Under Conditions of Limited Knowledge and Information Provision (07-0738)**

Caspar Chorus, Eindhoven University of Technology, Netherlands

Joan L. Walker, Boston University

Moshe E. Ben-Akiva, Massachusetts Institute of Technology

#### **Activity-Travel Rescheduling Decisions: Estimating Parameters of Response Patterns (07-0546)**

Linda Nijland, Eindhoven University of Technology, Netherlands

Theo Arentze, Eindhoven University of Technology, Netherlands

Aloys Borgers, Eindhoven University of Technology, Netherlands

Harry J.P. Timmermans, Eindhoven University of Technology, Netherlands

#### **Calibrating a New Reinforcement Learning Mechanism for Modeling Dynamic Activity-Travel Behavior and Key Events (07-0545)**

Marlies Vanhulsel, Transportation Research Institute, Belgium

Davy Janssens, Hasselt University, Belgium

Geert Wets, Transportation Research Institute, Belgium

**Stated Adaptation Survey of Activity Rescheduling: Empirical and Preliminary Model Results (07-0178)**

Matthew J. Roorda, University of Toronto, Canada  
Brandon Kurt Andre, University of Toronto, Canada

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**Session 486**

**Tuesday, January 23, 2007, 10:15am-12:00pm, Hilton, Thoroughbred**

**Do You Know What the Children Are Doing?**

Matthew J. Roorda, University of Toronto, Canada, presiding

*Sponsored by Committee on Traveler Behavior and Values (ADB10); Committee on Transportation Demand Forecasting (ADB40)*

**Exploratory Analysis of Children's Daily Time Use and Activity Patterns Using the Child Development Supplement to the U.S. Panel Study of Income Dynamics (07-3117)**

Rachel Copperman, University of Texas, Austin  
Chandra R. Bhat, University of Texas, Austin

**Coping with Unreliable Transportation When Collecting Children: Examining Parents' Behavior with Cumulative Prospect Theory (07-1393)**

Tim Schwanen, Utrecht University, Netherlands  
Dick Ettema, Utrecht University, Netherlands

**Framework and Analysis to Examine Implications of School Choice on Travel Behavior and Environmental Emissions (07-0362)**

Elizabeth Joan Wilson, University of Minnesota, Twin Cities  
Ryan D. Wilson, University of Minnesota, Twin Cities  
Kevin J. Krizek, University of Minnesota, Twin Cities

**Modeling Children's School Travel Mode and Parental Escort Decisions (07-2995)**

Amith Kumar Yarlagadda, University of Florida  
Sivaramakrishnan Srinivasan, University of Florida

**Analysis of Social Context of Children's Discretionary Activity Participation (07-2821)**

Ipek Sener, University of Texas, Austin  
Chandra R. Bhat, University of Texas, Austin

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**Session 493**

**Tuesday, January 23, 2007, 10:15am-12:00pm, Hilton, International West**

**Validation Issues in Statewide Models**

Gregory Giaimo, Ohio Department of Transportation, presiding

*Sponsored by Committee on Statewide Multimodal Transportation Planning (ADA10); Committee on Transportation Demand Forecasting (ADB40)*

Recent statewide travel demand forecasting model development efforts are discussed, focusing on validation techniques and acceptance targets.

**Tiered Approach to Validating the Integrated Florida Statewide Model (07-2190)**

Robert Gregory Schiffer, Cambridge Systematics, Inc.

**Wisconsin Passenger and Freight Statewide Model: Case Study in Statewide Model Validation (07-1808)**

Kimon Proussaloglou, Cambridge Systematics, Inc.  
Yasasvi Popuri, Cambridge Systematics, Inc.  
Dan Tempesta, Cambridge Systematics, Inc.  
Krishnan Kasturirangan, Northwestern University  
David Cipra, Wisconsin Department of Transportation

**Florida's Turnpike State Model: Development and Validation of an Integrated Land Use and Travel Forecasting Model (07-0790)**

Thomas Jay Adler, Resource Systems Group, Inc.  
Youssef Dehghani, Parsons Brinckerhoff  
Michael Doherty, URS Corp  
William Olsen, Florida Turnpike Enterprise

**Validation of Pennsylvania Statewide Travel Demand Model (07-2993)**

Mark Radovic, Gannett Fleming, Inc.

Larry M. King, Pennsylvania Department of Transportation

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**Session 526**

**Tuesday, January 23, 2007, 1:30pm- 3:15pm, Hilton, Jefferson West**

**The Built Environment and Travel Behavior, Part 1 (Part 2, Session 588)**

Kevin J. Krizek, University of Minnesota, Twin Cities, presiding

*Sponsored by Committee on Traveler Behavior and Values (ADB10); Committee on Transportation Demand Forecasting (ADB40)*

**Do Changes in Neighborhood Characteristics Lead to Changes in Travel Behavior? Structural Equations Modeling Approach (07-0735)**

Xinyu Cao, North Dakota State University

Patricia L. Mokhtarian, University of California, Davis

Susan L. Handy, University of California, Davis

**Influence of Land Use on Travel Decisions and Implications for Daily Distance Traveled (07-0221)**

Kees Maat, Delft University of Technology, Netherlands

Harry J.P. Timmermans, Eindhoven University of Technology, Netherlands

**Automobiles, Trips, and Neighborhood Type: Comparing Environmental Measures (07-1119)**

Elizabeth Shay, University of North Carolina, Chapel Hill

Asad J. Khattak, University of North Carolina, Chapel Hill

**Effect of the Built Environment on Motorized and Nonmotorized Trip Making: Substitutive, Complementary, or Synergistic? (07-2961)**

Jessica Y. Guo, University of Wisconsin, Madison

Chandra R. Bhat, University of Texas, Austin

Rachel Copperman, University of Texas, Austin

**Urban Form, Time, and Cost Trade-offs Involved in Mode Choice and Trip Chaining for Work and Nonwork Tours (07-2997)**

Lawrence D. Frank, University of British Columbia, Canada

Mark Bradley, Bradley Research & Consulting

Sarah E. Kavage, Washington State Department of Transportation

James Edward Chapman, Lawrence Frank and Company, Inc.

T. Keith Lawton, Keith Lawton Consulting

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**Session 588**

**Tuesday, January 23, 2007, 3:45pm- 5:30pm, Hilton, Jefferson West**

**The Built Environment and Travel Behavior, Part 2 (Part 1, Session 526)**

David Berrigan, National Cancer Institute, presiding

*Sponsored by Committee on Traveler Behavior and Values (ADB10); Committee on Transportation Demand Forecasting (ADB40)*

**Influence of the Built Environment on Trends in Commuting Journeys in the Netherlands (07-0201)**

Yusak Octavius Susilo, Delft University of Technology, Netherlands

Kees Maat, Delft University of Technology, Netherlands

**Detailed Analysis of Influence of Urban Trail System on Travel Behavior (07-3262)**

Kristin Bethany Thompson, Humphrey Institute of Public Affairs

Kevin J. Krizek, University of Minnesota, Twin Cities

Ahmed M. El-Geneidy, University of Minnesota, Twin Cities

**Examining Impacts of Residential Self-selection on Travel Behavior: Methodologies and Empirical Findings (07-0737)**

Xinyu Cao, North Dakota State University

Patricia L. Mokhtarian, University of California, Davis

Susan L. Handy, University of California, Davis

**Modeling Residential Sorting Effects to Understand Impact of the Built Environment on Commute Mode Choice** (07-3149)

Abdul Rawoof Pinjari, University of Texas, Austin  
Ram M. Pendyala, Arizona State University  
Chandra R. Bhat, University of Texas, Austin  
Paul Waddell, University of Washington

**Impact of Urban Form on Automobile Travel: Disentangling Causation from Correlation** (07-0972)

Ralf Hedel, German Aerospace Center  
Colin Vance, RWI Essen, Germany

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**Session 610**

**Tuesday, January 23, 2007, 7:30pm- 9:30pm, Hilton, Georgetown East**

**Integrated Transportation and Land Use Modeling**

Eric J. Miller, University of Toronto, Canada, presiding  
*Sponsored by Committee on Transportation and Land Development (ADD30); Committee on Transportation Demand Forecasting (ADB40)*

**Random Utility Location, Production, and Exchange Choice: Additive Logit Model and Spatial Choice Microsimulations** (07-1939)

John E. Abraham, University of Calgary, Canada  
John Douglas Hunt, University of Calgary, Canada

**Modeling the Interdependence in Household Residence and Workplace Choices** (07-1850)

Paul Waddell, University of Washington  
Chandra R. Bhat, University of Texas, Austin  
Naveen Eluru, University of Texas, Austin  
Liming Wang, University of Washington  
Ram M. Pendyala, Arizona State University

**Comprehensive, Unified Framework for Analyzing Spatial Location Choice** (07-2827)

Aruna Sivakumar, Rand Europe, United Kingdom  
Chandra R. Bhat, University of Texas, Austin

**Land Use Scenario Developer: Practical Land Use Model with Stochastic Microsimulation Framework** (07-0438)

Brian J. Gregor, Oregon Department of Transportation

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**Session 615**

**Tuesday, January 23, 2007, 7:30pm- 9:30pm, Hilton, Jefferson West**

**Value of Travel Time**

Thomas Jay Adler, Resource Systems Group, Inc., presiding  
*Sponsored by Committee on Traveler Behavior and Values (ADB10); Committee on Transportation Demand Forecasting (ADB40)*

**State-of-the-Art Estimates of Swiss Value of Travel Time Savings** (07-0232)

Kay W. Axhausen, Swiss Federal Institute of Technology Zurich  
Stephane Hess, Imperial College London, United Kingdom  
Arnd Koenig, Tiefbauamt Kanton Zurich, Switzerland  
John Bates, John Bates Services, United Kingdom  
Michel Bierlaire, Ecole Polytechnique Federale de Lausanne, Switzerland

**Effect of Multitasking on Value of Travel Time** (07-0860)

Dick Ettema, Utrecht University, Netherlands

**Revealed Parking Choices and Value of Time** (07-1831)

Donald John Harmatuck, University of Wisconsin, Madison

**Time-Use Approach for Estimating Commuters' Value of Travel Time** (07-1219)

Thomas Erikson Light, Cornell University

**Asymmetrical Preference Formation in Willingness-to-Pay Estimates in Discrete Choice Models** (07-0164)

Stephane Hess, Imperial College London, United Kingdom

## Session 714

**Wednesday, January 24, 2007, 2:30pm- 4:00pm, Hilton, Georgetown East**  
**Methodological Advances in Activity-Travel Behavior Analysis**

Laurie A. Garrow, Georgia Institute of Technology, presiding

*Sponsored by Committee on Transportation Demand Forecasting (ADB40); Committee on Traveler Behavior and Values (ADB10); Committee on Statistical Methodology and Statistical Computer Software in Transportation Research (ABJ80)*

### **Approximation of Bayesian Efficiency in Experimental Choice Designs (07-0179)**

Michiel C.J. Bliemer, Delft University of Technology, Netherlands

John Matthew Rose, University of Sydney, Australia

Stephane Hess, Imperial College London, United Kingdom

### **Estimation of the Cross-Nested Logit Model for a Large Number of Alternatives (07-0662)**

Shlomo Bekhor, Technion - Israel Institute of Technology

### **Multiple Discrete-Continuous Extreme Value Model: Role of Utility Function Parameters, Identification Considerations, and Model Extensions (07-2532)**

Chandra R. Bhat, University of Texas, Austin

### **Analysis of Relationship Between Timing and Duration of Maintenance Activities Using Alternative Joint Discrete-Continuous Modeling Systems (07-3418)**

Xin Ye, University of South Florida

Ram M. Pendyala, Arizona State University

### **Nonlinearity and Specification of Attitudes Toward Risk in Discrete Choice Models (07-2127)**

John W. Polak, Imperial College London, United Kingdom

Xiang Liu, Imperial College London, United Kingdom

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## Session 737

**Wednesday, January 24, 2007, 4:30pm- 6:00pm, Hilton, Georgetown East**  
**Progress in Microsimulation and Synthetic Population Generation**

Konstadinos G. Goulias, University of California, Santa Barbara, presiding

*Sponsored by Task Force on Moving Activity-Based Approaches To Practice (ADB60T); Committee on Traveler Behavior and Values (ADB10); Committee on Transportation Demand Forecasting (ADB40)*

### **Validation of TASHA: A 24-Hour Activity Scheduling Microsimulation Model (07-2312)**

Matthew J. Roorda, University of Toronto, Canada

Eric J. Miller, University of Toronto, Canada

Khandker Mohammed Nurul Habib, University of Toronto, Canada

### **Application of the MORPC Microsimulation Model for User Benefit Evaluation of Transit Projects (07-0935)**

Peter Vovsha, PB Consult, Inc.

David Schmitt, AECOM Consult Inc.

### **Microsimulation and Policy Applications of an Activity-Based Modeling System of Travel Demand (07-2083)**

Sadayuki Yagi, University of Illinois, Chicago

Abolfazl Mohammadian, University of Illinois, Chicago

### **Population Synthesis for Microsimulating Travel Behavior (07-2397)**

Jessica Y. Guo, University of Wisconsin, Madison

Chandra R. Bhat, University of Texas, Austin

### **Creating Synthetic Household Populations: Problems and Approach (07-0550)**

Theo Arentze, Eindhoven University of Technology, Netherlands

Harry J.P. Timmermans, Eindhoven University of Technology, Netherlands

Frank Hofman, Ministry of Transport, Public Works, and Water Management, Netherlands

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## Session 744

**Thursday, January 25, 2007, 8:00am- 9:45am, Hilton, Jefferson West**

### **Behavioral Responses to Transport Policies and Information Provision**

Yoram Shifan, Technion - Israel Institute of Technology, presiding

*Sponsored by Committee on Traveler Behavior and Values (ADB10); Committee on Transportation Demand Forecasting (ADB40)*

#### **Can Travel Time Information Really Influence Network Flow? Implications of the Minority Game** (07-1925)

Ryuichi Kitamura, Kyoto University, Japan

Shoichiro Nakayama, Kanazawa University, Japan

#### **Behavior-Based Network Modeling Approach for Deployable Information Provision Strategies** (07-0834)

Jeong Whon Yu, Ajou University, Korea

Srinivas Peeta, Purdue University

#### **Individual Responses to Congestion Policies: Modeling Consideration of Factor-Based Travel-Related Strategy Bundles** (07-0462)

Sangho Choo, Korea Transport Institute

Patricia L. Mokhtarian, University of California, Davis

#### **Modeling the Timing of User Responses to New Urban Public Transport Service: Application of Duration Modeling** (07-2976)

Kiron Chatterjee, University of the West of England, Frenchay

Kang-Rae Ma, University of the West of England, Frenchay

#### **Process Model of Voluntary Travel Behavior Modification and Effects of Travel Feedback Programs** (07-2727)

Ayako Taniguchi, University of Tsukuba, Japan

Satoshi Fujii, Tokyo Institute of Technology, Japan

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## Session 745

**Thursday, January 25, 2007, 8:00am- 9:45am, Hilton, Jefferson East**

### **Urban and Long-Distance Travel Analysis**

Thomas F. Rossi, Cambridge Systematics, Inc., presiding

*Sponsored by Committee on Transportation Demand Forecasting (ADB40); Committee on Traveler Behavior and Values (ADB10); Committee on Statewide Multimodal Transportation Planning (ADA10); Task Force on Moving Activity-Based Approaches To Practice (ADB60T)*

#### **Estimation of Weekend Mode Choice Model for Calgary** (07-1928)

John Douglas Hunt, University of Calgary, Canada

Kevin Stefan, City of Calgary, Canada

Paul McMillan, City of Calgary, Canada

#### **Continuous Departure Time Models: Bayesian Approach** (07-1843)

Shashank C. Gadda, University of Texas, Austin

Kara M. Kockelman, University of Texas, Austin

Paul Damien, University of Texas, Austin

#### **Impact of Demographics, Built Environment Attributes, and Vehicle Characteristics on Household Vehicle Holdings and Use** (07-2826)

Sudeshna Sen, University of Texas, Austin

Chandra R. Bhat, University of Texas, Austin

#### **Dynamic Choice Model of Urban Commercial Vehicle and Person Activity Patterns** (07-3428)

John P. Gliebe, Portland State University

Ofir Cohen, Parsons Brinckerhoff

John Douglas Hunt, University of Calgary, Canada

#### **Ohio Long-Distance Travel Model** (07-1277)

Gregory D. Erhardt, Parsons Brinckerhoff

Joel Freedman, PB Consult, Inc.

Andrew Stryker, Parsons Brinckerhoff

## Session 746

**Thursday, January 25, 2007, 10:15am-12:00pm, Hilton, Jefferson East**

### **Integrating Demand and Supply Models**

Srinivas Peeta, Purdue University, presiding

*Sponsored by Committee on Transportation Demand Forecasting (ADB40); Committee on Traveler Behavior and Values (ADB10); Committee on Transportation Network Modeling (ADB30)*

#### **Application of Cross-Nested Logit Route Choice Model in Stochastic User Equilibrium Traffic**

**Assignment** (07-2185)

Shlomo Bekhor, Technion - Israel Institute of Technology  
Lena Reznikova, Technion - Israel Institute of Technology  
Tomer Toledo, Technion - Israel Institute of Technology

#### **Dynamic Microassignment Modeling Approach for Integrated Multimodal Urban Corridor**

**Management** (07-2128)

Xuesong Zhou, CircumNav Networks  
Hani S. Mahmassani, University of Maryland, College Park  
Kuilin Zhang, University of Maryland, College Park

#### **Offline Calibration of Dynamic Traffic Assignment: Simultaneous Demand-Supply Estimation**(07-2878)

Ramachandran Balakrishna, Caliper Corporation  
Moshe E. Ben-Akiva, Massachusetts Institute of Technology  
Haris N. Koutsopoulos, Northeastern University

#### **Method of Estimating Parameters on Transportation Equilibrium Models: Toward Integration Analysis on Both Demand and Supply Sides** (07-2067)

Shoichiro Nakayama, Kanazawa University, Japan  
Richard Connors, University of Leeds, United Kingdom  
David Paul Watling, University of Leeds, United Kingdom

#### **Truly Agent-Oriented Coupling of Activity-Based Demand Generation with Multiagent Traffic Simulation** (07-2242)

Marcel Rieser, Technical University of Berlin, Germany  
Kai Nagel, Technical University of Berlin, Germany  
Ulrike Beuck, Technical University of Berlin, Germany  
Michael Balmer, Swiss Federal Institute of Technology Zurich  
Jens Rumenapp, Gertz Gutsche Rumenapp, Germany

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## Session 747

**Thursday, January 25, 2007, 10:15am-12:00pm, Hilton, Jefferson West**

### **Variability and Dynamics of Traveler Behavior**

Cynthia Chen, City College of New York, presiding

*Sponsored by Committee on Traveler Behavior and Values (ADB10); Committee on Transportation Demand Forecasting (ADB40); Task Force on Moving Activity-Based Approaches To Practice (ADB60T)*

#### **Day-to-Day Travel Variability in the Commute Atlanta Study** (07-0538)

Vetri Venthan Elango, Georgia Institute of Technology  
Randall Guensler, Georgia Institute of Technology  
Jennifer Harper Ogle, Clemson University

#### **On Recurrence of Daily Travel Patterns: Stochastic-Process Approach to Multiday Travel Behavior** (07-2120)

Bayarma Alexander, Kyoto University, Japan

#### **Dynamic Model for Generating Multiday, Multiperson Activity Agendas: Approach and Illustration** (07-1391)

Theo Arentze, Eindhoven University of Technology, Netherlands  
Harry J.P. Timmermans, Eindhoven University of Technology, Netherlands

**Modeling Daily Activity Program Generation Considering Within-Day and Day-to-Day Dynamics in Activity-Travel Behavior** (07-1009)

Khandker Mohammed Nurul Habib, University of Toronto, Canada

Eric J. Miller, University of Toronto, Canada

**Catching the Next Big Wave: Are Observed Behavioral Dynamics of Baby Boomers Forcing Us to Rethink Regional Travel Demand Models?** (07-1699)

Konstadinos G. Goulias, University of California, Santa Barbara