

TRB

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ANNUAL MEETING

TRANSPORTATION RESEARCH BOARD

January 13-17, 2002 • Washington, DC

Saturday, January 12

Saturday, January 12, 9:00 a.m. 5:00 p.m.

W1 Recommended Practices for Management & Operations of ITS

Saturday, January 12, 9:00 a.m.-6:00 p.m.

DAWG Forum on Pavement Performance Data Analysis

Sunday, January 13

Sunday, January 13, 8:30 a.m.-5:00 p.m., Marriott
W3 Geotechnical Instrumentation for Monitoring Performance

Peter W. Osborn, Federal Highway Administration, presiding
Sponsored by Committee on Soils and Rock Instrumentation

The objective of this workshop (\$40 ticket, limit 35) is to provide a detailed overview of selection and implementation of geotechnical instrumentation used for construction monitoring and long-term monitoring of geotechnical works. <http://gulliver.trb.org/publications/am/W3.pdf>

Sunday, January 13, 8:30 a.m.-5:00 p.m., Marriott
W4 Introduction to Nondestructive Evaluation Technologies for Bridges

F. Wayne Klaiber, Iowa State University, presiding
Sponsored by Committee on Dynamics and Field Testing of Bridges

Sunday, January 13, 8:30 a.m.-5:00 p.m., Marriott
W6 Workshop on Track Maintenance Planning and Railroad Infrastructure Maintenance Management

Allan M. Zarembski, ZETA-TECH Associates, Inc., presiding
Sponsored by Committee on Railway Maintenance

The TRB Committee on Railway Maintenance will conduct this workshop. The purpose is to introduce the current state of the art in track infrastructure maintenance management and illustrate how this is currently being applied in the railroad environment. The focus of this workshop is on current North American railway experience in the planning and management of infrastructure maintenance with an emphasis on track maintenance. This workshop will highlight the tools and approaches used by a range of North American railway systems to include Class 1 railroads, short lines, and transit systems. The use of new generation software systems for management of infrastructure maintenance will include issues related to the practical application of these systems and the conversion of large quantities of inspection and infrastructure data into usable information for managing maintenance-of-way budgets. The structure of the workshop will primarily be in lecture format with question and answer sessions. The lectures will be prepared and presented by selected railroad practitioners. The workshop program is available at <http://www4.nas.edu/trb/annual.nsf.web/railroad?OpenDocument>.

Sunday, January 13, 9:00 a.m.-5:00 p.m., Marriott
W7 Human Factors in Transportation: New Approaches to Preventing Motor Vehicle Crashes Among Young Drivers

Bruce Simons-Morton, National Institute of Child Health and Human Development, presiding

Sunday, January 13, 9:00 a.m.-5:00 p.m., Marriott
W8 Human Factors in Transportation: Shedding Light on Visibility Models

Thomas Schnell, University of Iowa; Carl K Andersen, Federal Highway Administration, Presiding

Sunday, January 13, 9:00 a.m.-5:00 p.m., Marriott

W9 Human Factors in Transportation: Signal Detection Theory and Grade Crossings: Theory, Analysis, Accident Prediction, and Experimentation

Thomas G. Raslear, Federal Railroad Administration, presiding

Sunday, January 13, 9:00 a.m.-5:00 p.m., Marriott

W10 Human Factors in Transportation: Driver Distraction: Assessment and Antidote

Louis Tijerina, Ford Motor Company; Tom Dingus, Virginia Tech, Center for Transportation Research, presiding

Sunday, January 13, 9:00 a.m.-5:00 p.m., Marriott

W11 Human Factors in Transportation: Seeing Is Believing: Vision, Cognition, and Driving Among Seniors

Karlene K. Ball and Cynthia Owsley, University of Alabama, Birmingham, presiding

Sunday, January 13, 9:00 a.m.-5:00 p.m., Marriott

W12 Human Factors in Transportation: How We View Pedestrians from the Road: Roadway Design and Drivers' Expectations of Pedestrians

Michael Ronkin, Oregon Department of Transportation, presiding

Sunday, January 13, 9:00 a.m.-5:00 p.m., Marriott

W13 Human Factors in Transportation: Engineering Improvements for Older Road Users: Putting Design into Practice

David J. Anderson, Florida Department of Transportation; Loren Staplin, TransAnalytics, LLC, presiding

Sunday, January 13, 9:00 a.m.-5:00 p.m., Marriott

W14 Human Factors in Transportation: Effectiveness of Simulation for Training: Advanced Instructional Technologies

Alan Lesgold, University of Pittsburgh; R. Wade Allen, Systems Technology, Inc., Presiding

Sunday, January 13, 9:00 a.m.-5:00 p.m., Marriott

W15 Human Factors in Transportation: Fatalities Arising from Driving in Rural America: What Can Be Done?

Max Donath and Nicholas John Ward, University of Minnesota, presiding

Sunday, January 13, 8:30 a.m.-noon, Marriott

W16 2002 Guide for Mechanistic-Empirical Pavement Design: Status

Judith B. Corley-Lay, North Carolina Department of Transportation, presiding

Sponsored by Committee on Rigid Pavement Design; Committee on Flexible Pavement Design; Committee on Pavement Rehabilitation; Committee on Strength and Deformation Characteristics of Pavement Sections; and Committee on Characteristics of Bituminous Paving Mixtures To Meet Structural Requirements

Sunday, January 13, 9:00 a.m.-noon, Marriott

W17 Use of Lithium to Mitigate Alkali-Silica Reactivity

Suneel N. Vanikar, Federal Highway Administration, presiding

Sponsored by Committee on Basic Research and Emerging Technologies Related to Concrete

This workshop will feature the latest information on the use of lithium in suppressing alkali-silica reactivity in new and existing concrete. The workshop presenters will be members of the Federal Highway Administration-sponsored multiagency Lithium Implementation Team.
<http://www.nas.edu/trb/publications/am/Lithium.pdf>

Sunday, January 13, 1:30 p.m.-5:00 p.m., Marriott

W18 Bridge Life-Cycle Cost Analysis

Arunprakash M. Shirole, National Steel Bridge Alliance, presiding

Sponsored by Committee on Bridge Management Systems and Federal Highway Administration

The workshop will include presentations on information needs and reliability and variability of cost data; methodology and computer software for conducting bridge life-cycle cost analysis including agency costs, user costs, impact of extreme events, uncertainty with costs and timing of repair, and deterministic and probabilistic solutions; and the role of bridge life-cycle cost analysis in the decision-making process.

Sunday, January 13, 1:30 p.m.-5:30 p.m., Marriott

W19 Concrete Curing: Basic Principles, Practical Experiences, and Innovations

W. Jason Weiss, Purdue University, presiding

Sponsored by Committee on Durability of Concrete; Committee on Concrete Materials and Placement Techniques; Committee on Portland Cement Concrete Pavement Construction; and Committee on Concrete Bridges

Modern concrete has illustrated that attention to curing is critical, particularly in the case of higher-strength concrete, concrete with mineral additives, and rapid-setting concrete. This workshop will review basic concepts of good concrete curing, early-age hydration concepts, volume changes, and the relationship between curing and long-term performance. In addition, examples of good and poor curing practices will be presented, along with recent innovations. <http://www.nas.edu/trb/publications/am/ConcreteCuring.pdf>

Sunday, January 13, 1:30 p.m.-5:00 p.m., Marriott

W20 Disadvantaged Business Regulations: Administrative and Procedural Updates

Cynthia J. Wilson Orndoff, University of Missouri, Columbia; Charles E. French, Georgia Department of Transportation, presiding

Sponsored by Committee on Disadvantaged Business Enterprises (DBE)

The workshop will focus on successful and beneficial strategies associated with administration, implementation and achievement of the objectives of DBE/WBE/MBE programs. Specific topics will include the Uniform Certification Process, Good Faith Efforts, Commercially Useful Functions, and Mentoring Programs. <http://www.nas.edu/trb/publications/am/DisadvantagedBusiness.pdf>

Sunday, January 13, 1:30 p.m.-5:00 p.m., Marriott
W21 Doctoral Student Research in Transportation Geotechnics

Deborah J. Goodings, University of Maryland, presiding

Sponsored by Section on Geomaterials; Section on Soil Mechanics; and Section on Geology and Properties of Earth Materials

The primary objective of this new workshop series is to encourage attendance and participation of young researchers in TRB activities. It will also provide an opportunity to showcase new research and potential future members for TRB committees. Presentations consist of reports on geotechnical engineering research related to transportation facilities that are of interest to practitioners and researchers.

<http://gulliver.trb.org/publications/am/W21.pdf>

Sunday, January 13, 1:30 p.m.-5:00 p.m., Marriott
W22 Perpetual Asphalt Pavements

Sponsored by Committee on General Issues in Asphalt Technology

This workshop will explore the developments in long-life asphalt pavements--pavements that last for more than 50 years with periodic renewal of the surface. Presenters will discuss current efforts to determine materials criteria, perform structural design, and construct perpetual asphalt pavements.

Sunday, January 13, 8:30 a.m.-5:00 p.m., Shoreham
W23 Airport and Airspace Simulation

Saleh A. Mumayiz, The MITRE Corporation, presiding

Sponsored by Committee on Airfield and Airspace Capacity and Delay

This workshop will demonstrate and discuss airport-airspace simulation models used in studies to analyze the interactions between airspace and airfield operations. It will present models currently used and their features and discuss their utilization for such studies. Presentations of recent applications will be made and their findings discussed. The workshop is designed to improve understanding of the intricacies of airport-airspace operations and to elaborate on technical details and requirements of the analysis. The advantages of simulations to provide realistic and dynamic evaluation of the complex interactions of the system will be highlighted and discussed. The workshop format will be sets of panels of experts in the field, including software developers, simulation user groups demonstrating the simulations, airport/ATC managers, and airport consultants. Discussion will cover the assumptions, simulation logic, data requirements and management, modeling approaches, analytical techniques, evaluation methods, findings, and also management of the conduct of airport simulation studies. Airport managers, planners, and engineers; airport engineering and planning consultants; airline operations planners; aviation researchers; state airport and aviation planners; and FAA staff in airspace/ATC/airport planning, capacity, and air traffic management are encouraged to attend.

Sunday, January 13, 9:00 a.m.-4:00 p.m., Shoreham

W24 Transit Signal Priority

Sponsored by Committee on Traffic Signal Systems and Committee on Bus Transit Systems

The Committees on Traffic Signal Systems and Bus Transit Systems are cosponsoring this workshop, which is designed to expand the understanding of traffic signal control priority for transit vehicles. This is a two sided topic, in which those responsible for transit operations and those responsible for traffic signal operations have different needs and objectives. The program will include technical presentations from transit operators, traffic signal engineers, and researchers in the field with the intent of helping everyone to better understand the particular needs of each group. The program will include a discussion of the status of signal control prioritization standards development. This workshop is intended to be a dialog between the presenters and the audience with the goal of expanding everyone's understanding of the issues involved and potential solutions. The workshop is open to all interested participants registered for the Annual Meeting. Fee: None (with Annual Meeting one-day or full registration)

Sunday, January 13, 8:30 a.m.-5:00 p.m., Shoreham

W25 Incident Management Workshop

Sponsored by Committee on Freeway Operations

This workshop, sponsored by the Committee on Freeway Operations, deals with important issues regarding successful management of traffic incidents. Traffic incidents are estimated to account for up to 60 percent of the congestion on urban freeways today. Removing incidents quickly and efficiently can have a significant impact on congestion levels. Quick incident removal also reduces the exposure to secondary incidents, thereby improving the safety of the freeway. The workshop will focus on providing road agency and public safety staff with an understanding of the basics of successful incident management programs. Specific topics of discussion include protecting the responders, positive guidance for motorists, intelligent transportation systems technology and incident management, use of emergency lights at the scene, and liability issues in incident management. The workshop is open to all interested participants registered for the Annual Meeting. Fee: None (with Annual Meeting one-day or full registration)

Sunday, January 13, 10:00 a.m.-5:00 p.m., Shoreham

W26 Railroad Capacity and Corridor Planning Workshop

Paul H. Reistrup, CSX Transportation, Inc., presiding

Sponsored by Committee on Intercity Rail Passenger Systems; Committee on Electrification and Train Control Systems for Guided Ground Transportation Systems; Committee on Guided Intercity Passenger Transportation; and Committee on Commuter Rail Transportation

Numerous public agencies around the United States are actively studying or planning intercity passenger rail improvements and new services as well as new and expanded commuter rail operations. These studies most often include utilizing existing railroad rights-of-way. This workshop is designed to provide background and guidance on railroad corridor planning including capacity analysis techniques for joint passenger and freight operations. Case studies will be presented, together with a panel discussion by FRA, state department of transportation, and freight railroad planning and operations leaders. The workshop is aimed at providing "lessons learned" and realistic planning tools for considering new railroad passenger operations.

Sunday, January 13, 1:30 p.m.-5:00 p.m., Shoreham
W27 Critical Infrastructure Protection: A National Priority
Sponsored by Task Force on Critical Transportation Infrastructure Security

Invited speakers and Task Force members will provide brief presentations on various aspects of critical infrastructure protection, setting the framework for the attendees to begin identifying and outlining research priorities. Attention will be given to a full range of security issues including vulnerability and risk assessment, preparedness, response, prevention, technology, procedures and applications, as well as the integration of security considerations into the planning and operation of the nation's transportation system.

Sunday, January 13, 1:30 p.m.-5:00 p.m., Shoreham
W28 National Freight Forum: Freight Policy Options
C. Michael Walton, University of Texas, Austin; Lillian C. Borrone, Consultant,
presiding
Sponsored by National Freight Forum

The National Freight Forum is a group of freight stakeholders, formally appointed by the National Research Council. The purpose of the Forum is to provide opportunities for collective discussions of freight transportation issues and future strategies and options for initiatives to enhance the nation's freight productivity--most notably in the areas of freight finance, planning and programming, operations, international trade transport, data and analytical methods, and human resources. This workshop is intended to draw upon a broad range of relevant perspectives on these aspects of freight transportation productivity. The emphasis of this workshop will be on institutional issues, including a discussion of appropriate private- and public-sector roles and responsibilities in fostering freight productivity improvements. Special attention will also be devoted to research needs related to freight transportation.

Sunday, January 13, 1:30 p.m.-5:00 p.m., Shoreham
W29 NASA's Small Aircraft Transportation System (SATS)
Bruce Holmes, NASA Langley Research Center, presiding
Sponsored by Committee on Aircraft/Airport Compatibility

The purpose of this workshop is to provide NASA SATS leadership and project teams the opportunity to position future SATS research within the larger transportation research community, report on plans to further develop and prove SATS operating capabilities, and solicit comment and participation from the transportation research community on the NASA SATS goals, objectives, and metrics. SATS is envisioned to be a safe travel alternative, freeing people, goods, and services from transportation delays by creating access to more communities in less time. Specific SATS technologies and operating capabilities are conceived to support on-demand or scheduled air mobility services as a convenient and cost-effective alternative to highway or hub-spoke travel of 200 to 1,000 miles. Because SATS can operate at more than ten times as many small airports as the current hub-and-spoke system and can operate at speeds four times those of highways, it holds great potential for robust, resilient, and reliable transportation. The NASA SATS five-year program to be presented at this workshop is a proof-of-concept set of flight experiments and a demonstration of four key operating capabilities. These operating capabilities enable utilization of underutilized airports and airspace and will allow an intermodal doorstep-to-destination air transit system. Now more than ever the nation needs alternatives for people and goods to travel quickly and safely wherever and whenever needed. Please join us as we present the SATS Program to the national transportation research community and solicit your input to help refine our experiments and demonstrations designed to prove new concepts for 21st century transportation alternatives.

Sunday, January 13, 1:30 p.m.-5:00 p.m., Shoreham
W30 Outlining a Research Agenda for the Marine Transportation System (MTS) and SEA-21

Sponsored by Committee on Inland Water Transportation and Committee on Ports and Channels

The Report to Congress on the Marine Transportation System (MTS) and its intermodal connections recognized the need for a coordinated research effort for MTS and recommended establishment of a National Cooperative Research Program project that would (a) coordinate research by government, academic, and private sectors; (b) foster MTS research to address mobility, safety, environmental protection, and security; and (c) encourage R&D to increase MTS capability in growth of cargo and passenger traffic. This workshop will include presentations by panelists to generate ideas and concepts and will consider options for funding critical MTS research needs.

Sunday, January 13, 1:30 p.m.-5:00 p.m., Shoreham
W31 Traffic Simulation Models

Sponsored by Committee on Traffic Flow Theory and Characteristics; Committee on Highway Capacity and Quality of Service; and Committee on Traffic Signal Systems

The Committee on Traffic Flow Theory and Characteristics in cooperation with the Committees on Traffic Signal Systems and Highway Capacity and Quality of Service are sponsoring this workshop to address the broadest aspects of the development and application of traffic simulation models in the design, evaluation, and operation of modern transportation facilities. The program will include technical presentations and discussions by sponsors, facilitators, developers, and users. The workshop is open to all interested participants registered for the Annual Meeting.

Fee: None (with Annual Meeting one-day or full registration)

Sunday, January 13, 8:30 a.m.-5:00 p.m., Hilton
W32 E-Learning: A Primer for the Transportation Professional--Fourth Annual Forum on Transportation Education and Training

E-Learning is referred to as "learning at light speed," "blended learning," "learning at your own pace," and "just-in-time learning." This workshop, sponsored by the Committee on Transportation Education and Training and the FHWA Office of Professional Development, will help transportation professionals understand if e-learning is an option, the steps in making that decision, and available tools to make it work. Other considerations are outsourcing or doing it yourself, delivery alternatives, how to talk with your Webmaster to get what you think you want. Presenters will demonstrate uses of e-learning, and participants will design their own e-learning sites.

Session organizer: BSN, Inc. Contacts: Vicki Glenn and Bill Fogle

Sunday, January 13, 8:30 a.m.-5:00 p.m., Hilton
W33 Community Impact Assessment: What's Going on Out There?

The workshop will build on last year's Community Impact Assessment (CIA) workshop and will maintain a blend of presentations and numerous interactive events. This year the focus will be on breaking the traditional perceptions of CIA with innovative approaches, new perspectives, and useful tools covering the breadth of CIA, GIS data tools, hard data credibility, ROW's relevance to CIA, and transportation's role in regional planning and smart growth and growth management to help the practitioner break out of the mold and consider fresh ideas and new approaches. CIA is not just a project issue any more; it is a holistic approach, taking into consideration hindsight and foresight. It is also the recognition that anything is possible and there are no wrong answers, just different approaches. The communities and transportation infrastructure of yesteryear are still with us. What will we do with them, and how will we leave our piece of history? Sponsors include the Committees on Social and Economic Factors in Transportation, Public Involvement in Transportation, and Environmental Factors in Transportation; the new TRB Community Impact Assessment (CIA) Joint Subcommittee; and the Federal Highway Administration.

Sunday, January 13, 8:30 a.m.-5:00 p.m., Hilton
W34 Next Steps for Transportation Environmental Stewardship Through Context-Sensitive Planning, Design, Construction, and Maintenance

The workshop will address integrating environmental stewardship into the day-to-day business of transportation program development, execution, and maintenance. This is part of a continuing, multifaceted effort by the transportation industry to enhance the quality of transportation services by enhancing environmental stewardship. Workshop participants representing diverse transportation and environmental functions will identify specific opportunities for action. A document representing a "work in progress" will be produced for use by participants and interested transportation professionals in developing individual agency models for enhancing environmental stewardship. It will also include valuable perspectives for further refinement and use by the U.S. Department of Transportation, AASHTO, and TRB committees. The workshop is sponsored by Committees on Environmental Analysis in Transportation and Landscape and Environmental Design; AASHTO; and the North Carolina State University Center for Transportation and Environment.

Sunday, January 13, 8:30 a.m.-5:00 p.m., Hilton
W35 Using TRANSIMS: A Tutorial II
Sponsored by Committee on Transportation Planning Applications

This workshop will illustrate the use of TRANSIMS modules and data to model particular and generic aspects of urban transportation systems. The workshop will use examples applied to the Portland transportation model. Objectives are to familiarize end users of TRANSIMS with what it does and to describe how TRANSIMS works and how to use it to model urban transportation systems. Topics covered include population synthesizer, activity generator, multimodal trip planner, microsimulator and selector, TRANSIMS framework, feedback methods, and network construction. Technical transportation planning staff experienced in using four-step models, transportation planning agency management staff, transportation planning technical data management staff, and transportation planning software staff are encouraged to attend.

Sunday, January 13, 8:30 a.m.-noon, Hilton

W36 Census Data 2000 and Beyond

Stacey G. Bricka, NuStats International, presiding

Sponsored by Committee on Urban Transportation Data and Information Systems

This workshop is sponsored by the Subcommittee on Census Data for Transportation Planning, the Committee on Urban Transportation Data and Information Systems, and the Committee on Statewide Transportation Data and Information Systems. The Census Bureau is requesting funding to begin the full implementation of the American Community Survey (ACS) in 2003. Since the ACS is intended to take the place of the decennial census long form, this workshop will serve as a forum to update the transportation community on the status of the ACS program, the outlook for implementation, and recent research efforts to begin the process of replacing the long-form data with continuous measurement in transportation planning and research. At the same time, this workshop is designed to inform officials and policy makers of the needs and issues as seen by the transportation community. Potential users of the ACS will be provided an opportunity to voice concerns, raise questions, and formulate a research agenda that will serve to ensure a smooth transition from the long form to the ACS.

Sunday, January 13, 8:30 a.m.-noon, Hilton

W37 Challenges and Opportunities of Artificial Intelligence Solutions

Sponsored by Committee on Artificial Intelligence

This workshop will provide an overview of artificial intelligence (AI) systems and a panel discussion among practitioners and academics who have used and developed such systems. The overviews will describe systems applications, theoretical bases, specific advantages (and in some cases disadvantages) over conventional tools, and descriptions of software packages. Discussions will include knowledge-based systems, neural nets, genetic algorithms, and simulated annealing and fuzzy systems. Objectives of the workshop are to familiarize users with AI tools, to highlight the major issues involved in their application, and to provide discussions of successes and failures. Following a set of short tutorials on various AI tools, the panel of practitioners and academics will describe their respective applications. Descriptions will be followed by panel discussions between panel members (practitioners, academics, private industry, and developers) and the audience.

Sunday, January 13, 8:30 a.m.-noon, Hilton

W38 Recommendations from the Guidebook "Incorporating ITS into the Transportation Planning Process"

Sponsored by Committee on Intelligent Transportation Systems

The National Cooperative Highway Research Program (NCHRP) Project 8-35 "Incorporating ITS into the Transportation Planning Process" aimed at bridging the gap between traditional planning for long-range infrastructure projects and intelligent transportation systems and other operational strategies that improve the management and efficiency of the transportation system. This workshop will highlight the project's recommendations on incorporating intelligent transportation systems into transportation planning and provide an overview of the Guidebook.

Sunday, January 13, 8:30 a.m.-noon, Hilton
W39 Use of Fuel-Cycle Modeling to Assess Energy and Emissions of Advanced Propulsion Technologies and New Fuels

Advanced vehicle technologies and new transportation fuels are proposed to improve motor vehicle efficiency and reduce emissions of greenhouse gases and criteria pollutants. Worldwide, industries and governments are investing heavily in research and development of advanced vehicles such as hybrid electric vehicles and fuel-cell vehicles. These vehicles often require use of fuels different from conventional gasoline and diesel, or may require very high purity for the gasoline or diesel fuel. To completely evaluate energy and emission impacts of new vehicle/fuel systems, they must be evaluated on a full fuel-cycle basis including all stages from energy feedstock recovery to energy delivered at the vehicle wheels (well-to-wheel) [WTW] analyses). In the past several years, major WTW studies have been conducted around the world. In this workshop, representatives from five organizations in Asia, Europe, and North America will present technical approaches, key assumptions, and results of their analyses. Through interactions among the presenters and between the presenters and the audience, workshop participants will gain a better understanding of the usefulness and limitations of WTW analyses. Sponsored by the TRB Committees on Alternative Fuels and Transportation Energy.

Sunday, January 13, 1:00 p.m.-5:30 p.m., Hilton
W40 Doctoral Student Research in Transportation Modeling
Sponsored by Committee on Transportation Network Modeling; Committee on Traffic Flow Theory and Characteristics; Committee on Passenger Travel Demand Forecasting; and Committee on Traveler Behavior and Values

The Committees on Transportation Network Modeling, Traffic Flow Theory and Characteristics, Passenger Travel Demand Forecasting, and Traveler Behavior and Values are cosponsoring a half-day seminar consisting of reports of Ph.D. student research on transportation modeling and travel behavior.

Sunday, January 13, 1:30 p.m.-5:00 p.m., Hilton
W41 Customer Surveys for Strategic Management
Johanna Zmud, NuStats International; Cynthia A. Weatherby, Texas Transportation Institute, presiding
Sponsored by Committee on Travel Survey Methods; Committee on Strategic Management; and Committee on Management and Productivity

Understanding customer expectations and satisfaction with transportation services has risen to the top of the list for many transportation organizations. One of the tools that state departments of transportation, transit authorities, and other agencies are using to gain more insight into customer opinion is the customer survey. This workshop will help transportation professionals design surveys and use the results in strategic management. Sessions will feature a wide variety of success stories and lessons learned. Practical suggestions for implementation will be stressed.

Sunday, January 13, 1:30 p.m.-5:00 p.m., Hilton
W42 MOBILE6 Vehicle Emissions Model: Case Studies from Selected Urban Areas

Many States and Metropolitan Planning Organizations are experimenting with use of MOBILE6 to better understand how the model works; the differences in inputs, outputs and uses from MOBILE5, and how MOBILE6 is likely to affect transportation conformity determinations. This workshop will provide participants with information on the use of MOBILE6 in selected cities, engage participants to answer as many questions as possible, and to identify next steps in use of MOBILE6. To best understand and discuss how States and MPOs in different sized urban areas are using MOBILE6, presenters will represent small, medium-sized and large urban areas. There will be a presentation on and discussion of the data sources and inputs for MOBILE6. Finally, representatives of the Federal Highway Administration will explain efforts to develop technical guidance for Modeling for Transportation Conformity and the relationship to MOBILE6. Sponsored by A1F03 - Transportation and Air Quality Committee.

Sunday, January 13, 1:30 p.m.-5:00 p.m., Hilton
W43 Private-Sector Freight Transportation Databases and Data Products
Paul Bingham, WEFA Inc., presiding
Sponsored by Committee on Freight Transportation Data

In this workshop, sponsored by the Committee on Freight Transportation Data, private-sector freight data providers and consultants will make brief presentations describing their data products and services. Speakers will be available to display and distribute their materials and answer questions after their presentations. Use of commodity flow databases and hands-on demonstrations will be featured. Freight data users from federal, state, and local and metropolitan planning organizations; private-sector freight data users (associations, shippers, and carriers); academicians and students; and consultants will learn about the newest data products available. Organizations invited include Eno Transportation Foundation, Reebie Associates, ALK Associates, American Trucking Associations, Association of American Railroads, StreetSmarts, and Journal of Commerce.

Sunday, January 13, 1:30 p.m.-5:00 p.m., Hilton
W44 Remote Sensing and Data Capture Technologies for Transportation
A. Keith Turner, Colorado School of Mines, presiding
Sponsored by Committee on Spatial Data and Information Systems and Committee on Photogrammetry, Remote Sensing, Surveying and Related Automated Systems

This workshop covers the entire spectrum of remote sensing data gathering from satellites to ground-based van systems, with special emphasis on applications to transportation. The workshop objectives are built around the theme "One of the biggest difficulties in using GIS is getting the right data, in the right format, at the right time." It emphasizes the convergence of several technologies and their impact on transportation applications, including new high-resolution satellites, airborne sensors, GPS, and digital image processing.

Sunday, January 13, 1:30 p.m.-5:00 p.m., Hilton
W45 Streamlining: Working Within the Section 106 Process to "Just Do It"

Compliance with Section 106 of the National Historic Preservation Act still bedevils many transportation agencies. The purpose of this workshop will be to explore win/win solutions within the constraints of shrinking budgets. Case studies will be used to test participants ability to "think outside the box" and get to the best resolution of a historic preservation/transportation project conflict without going tediously step by step through the Section 106 process. Streamlining is the goal, but at the same time pitfalls to be avoided will be noted. These include:

- (a) Backlash from those who are not included in the mitigation, or who are hurt by the avoidance alternative,
- (b) Excessive costs by thinking only of what actions COULD be done without considering what the actual adverse effect requiring mitigation is,
- (c) Setting precedents that could come back to haunt one on future projects.

Sponsored by the Committee on Historic and Archeological Preservation in Transportation.

Sunday, January 13, 1:30 p.m.-5:00 p.m., Hilton
W46 To Integrate or Not to Integrate: Approaches to Determining Data Value in a Dis-Integrated Organization

Daniel K. Papiernik, TRANSCORE; Bobby R. Harris, GIS/Trans, Ltd., presiding
Sponsored by Committee on Spatial Data and Information Systems and Committee on Information Systems and Technology

This workshop includes topics to consider in approaching a data integration project: how to value the integration of data, key elements to consider that affect the decision to integrate, tools and approaches to help assess and plan the effort, and a checklist of considerations before the decision is made.

Sunday, January 13, 1:30 p.m.-5:00 p.m., Hilton
W47 Transportation Project Financing

Sunday, January 13, 1:30 p.m.-6:00 p.m., Hilton
W48 The Truth About the Costs of Intelligent Transportation Systems: Implications for Improving Planning and Operations in Traffic Management
Sponsored by Committee on Intelligent Transportation Systems

This workshop is for the transportation decision makers to help plan for the life-cycle costs of an Intelligent Transportation Systems (ITS) project. The workshop has five goals: (a) to assess recent planning and deployment experiences (what worked and did not work) from several state and local transportation agencies; (b) to explore budgeting for capital costs and beyond, costs of operations and maintenance, costs of managing ITS, and alternatives for operating and maintaining an ITS project; (c) to explore needed organizational changes and public policy shifts; (d) to review life-cycle costing tools such as the FHWA-sponsored ITS Unit Costs Database (<http://www.benefitcost.its.dot.gov>); and (e) to receive first-hand lessons (both positive and negative) learned from projects. ITS planners and operators at the state and local levels as well as federal planners and contractors or consultants with an interest in understanding and contributing to the dialogue of life-cycle costs in ITS projects are urged to attend. The workshop will provide excellent networking opportunities among private and public-sector representatives and will promote interactive dialogue among speakers and audience on life-cycle costs. Participants are encouraged to propose and discuss transportation planning for the future using the ITS Unit Costs Database as a life-cycle costing tool.

Sunday, January 13, 3:00 p.m.-4:00 p.m., Marriott
Audiovisual Presentations That Won't Leave Your Audience in the Dark!

Learn techniques for preparing high-quality slides, overhead transparencies, and multimedia projector presentations from Curt Sauter of the 3M Company and Jewelene Richardson, TRB. All Annual Meeting participants are welcome.

Sunday, January 13, 4:30 p.m.-6:30 p.m., Marriott
New Attendees and Young Participants Welcome Session and Networking Reception

Attendees age 30 and under and everyone attending the TRB Annual Meeting for the first time--or for the first time in several years--are invited to attend this session and reception. The program offers a brief overview of TRB, tips on navigating the Annual Meeting, and the role that TRB can play in career development. An informal reception (cash bar) follows for attendees to meet one another and TRB leaders.

Monday, January 14

100

Monday, January 14, 8:00 a.m.-9:45 a.m., Marriott

Contractor Quality Issues in Construction, Part 1 (Part 2, Session 135)

Trefor P. Williams, Rutgers University, presiding

Sponsored by Committee on Construction Management

Issues Related to Use of Contractor Quality Control Data in Acceptance Decision and Payment, (02-4027)

Brian M. Killingsworth, Fugro-BRE, Inc.; Charles S. Hughes, Consultants

Quality-Based Contractor Rating System

Brian Strizki, New Jersey Department of Transportation

Contractor-Performed Concrete Quality Control in Kentucky, (02-2643)

Kamyar Cyrus Mahboub, University of Kentucky

Use of Contractor Data for Acceptance in Maine: Overview of Pilot Projects

Richard L. Bradbury, Maine Department of Transportation

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Monday, January 14, 8:00 a.m.-9:45 a.m., Marriott

Red-Light Running

H. Gene Hawkins Jr., Texas Transportation Institute, presiding

Sponsored by Committee on Traffic Control Devices and Committee on Traffic Signal Systems

National Perspective on Red-Light Running

Patrick Hasson, Federal Highway Administration

Role of Automated Enforcement in Combating Red-Light Running

Richard A. Retting, Insurance Institute for Highway Safety

Engineering Countermeasures to Reduce Red-Light Running

Hugh W. McGee, Bellomo-McGee, Inc.

Effect of Dilemma Zones on Red-Light Running Enforcement Tolerances, (02-3744)

Joseph S. Milazzo, Joseph E. Hummer, and Nagui M. Roupail, North Carolina State University; Leanne Prothe, BMI; Justin McCurry, Institute for Transportation Research and Education

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Monday, January 14, 8:00 a.m.-9:45 a.m., Marriott

Long-Term Pavement Performance: Challenge, Benefits, and Progress

Aramis Lopez Jr, Federal Highway Administration, presiding

Sponsored by TRB Long-Term Pavement Performance Committee

Transportation Research Board Long-Term Pavement Performance Committee Report: Fulfilling the Promise of Better Roads

Allan L. Abbott, City of Lincoln, Nebraska; Victor M. Mendez, Arizona Department of Transportation

Responding to Fulfilling the Promise of Better Roads

Tommy L. Beatty and Charles J. Churilla, Federal Highway Administration

Long-Term Pavement Performance Data Analysis

Judith B. Corley-Lay, North Carolina Department of Transportation

Long-Term Pavement Performance Product Development

Gary D. Taylor, Michigan Department of Transportation

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Monday, January 14, 8:00 a.m.-9:45 a.m., Marriott

Congested Traffic Flow: Phenomena and Models

Hani S. Mahmassani, University of Texas, Austin, presiding

Sponsored by Committee on Traffic Flow Theory and Characteristics

Review of Empirical Research on Congested Freeway Flow, (02-2472)

James H. Banks, San Diego State University

Empirical Features of Congested Patterns at Highway Bottlenecks, (02-2918)

Boris S. Kerner, Daimler-Benz, Germany

Kinematic Wave Traffic Flow Model for Mixed Flow, (02-3068)

H. Michael Zhang and Wenlong Jin, University of California, Davis

Scalability of Two-Fluid Model of Urban Traffic: The Other End of the Scale--Signalized Intersections, (02-3657)

Elizabeth G Jones, University of Nebraska, Lincoln; Cheryl A Jankowski, Archer Engineers, Inc.

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Monday, January 14, 8:00 a.m.-9:45 a.m., Marriott

Composite Piling

Arnold Aronowitz, Polytechnic University of New York, presiding

Sponsored by Committee on Foundations of Bridges and Other Structures

Deterioration of Foundation Materials in Hostile Environments

Arnold Aronowitz, Polytechnic University of New York; John Lizzo, Port Authority of New York and New Jersey

Durability of Recycled Fiber-Reinforced Polymer Piling in Aggressive Environments, (02-2310)

Magued Iskander, Polytechnic University of New York; Ahmed Mohamed, GZA Geoenvironmental; Moataz Hassan, Langan Engineering & Environmental Services

Environmental Testing of a Series of Composite Piles

Piyush K. Dutta, U.S. Army Engineer Cold Regions Research and Engineering Laboratory

Recent Developments in Fiber-Reinforced Polymer Composite Piling Practice, (02-3589)

Magued Iskander, Polytechnic University of New York

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Monday, January 14, 8:00 a.m.-9:45 a.m., Marriott

Implementation of AASHTO's Strategic Highway Safety Plan

Thomas E. Bryer, Pennsylvania Department of Transportation, presiding

Sponsored by Committee on Transportation Safety Management

Guidance for Implementation of AASHTO Strategic Highway Safety Plan

Timothy R. Neuman, CH2M Hill

Integrated Management Process to Reduce Highway Injuries and Fatalities Statewide

Geni Bahar, iTRANS Consulting, Inc., Canada

AASHTO Strategic Highway Safety Plan: Technology Transfer Plan

William C. Grenke, Roy Jorgensen Associates, Inc

Case Studies

John J. Zogby, Transportation Safety Management & Information Systems

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Monday, January 14, 8:00 a.m.-9:45 a.m., Marriott

Effectiveness of Preventive Pavement Maintenance Treatments

James S. Moulthrop, Koch Materials Company, presiding

Sponsored by Committee on Pavement Maintenance

Performance of Louisiana's Maintenance Chip Seal and Microsurfacing Program, (02-4075)

Bill Temple, Louisiana Department of Transportation and Development; Shashikant Shah, Consultants; Skip Paul, Louisiana Transportation Research Center; Chris Abadie, Louisiana Department of Transportation and Development

Evaluation of Chip Seals on High-Volume/High-Speed Roadways, (02-3236)

Monty J Wade, Applied Pavement Technology, Inc.; Daris Ormesher, South Dakota Department of Transportation; David G. Peshkin, Applied Pavement Technology, Inc.

Cost-Effective Preventive Maintenance: Case Studies, (02-3026)

Gilbert Y. Baladi and Tunwin Svasdisant, Michigan State University; Thomas Van, Federal Highway Administration; Neeraj J. Buch and Karim Chatti, Michigan State University

Application of Neural Network for Selection of Airport Rigid Pavement Maintenance Strategies, (02-2698)

Shu-Meng Huang, National Central University, Taiwan

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Monday, January 14, 8:00 a.m.-9:45 a.m., Marriott

Railroad Security

Willem Ebersohn, National Railroad Passenger Corporation, presiding

Sponsored by Committee on Railway Maintenance

Enhancing Railroad Security with Intelligent Railroad Systems

Steven R. Ditmeyer, Federal Railroad Administration

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Monday, January 14, 8:00 a.m.-9:45 a.m., Marriott

Introduction to Funding Practices, or Buying and Selling Money

Richard W. Bower, California Department of Transportation; Robert G. Haley, Kansas Department of Transportation, presiding

Sponsored by Committee on Transportation Law

Federal Point of View

Paula Schwach, Federal Transit Administration

Financial Advice

Jeanne Vanda, Public Financial Management

Attorney's Point of View

Meghan B. Burke, Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C.

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Monday, January 14, 8:00 a.m.-9:45 a.m., Marriott

Survey Findings About Older Drivers, Their Regulation, and Their Transportation Needs

Joan Harris, NHTSA, presiding

Sponsored by Committee on Safe Mobility of Older Persons

Understanding Senior Transportation Survey

Audrey K. Straight, American Association of Retired Persons

Why Seniors Stop or Don't Stop Driving

Jane C. Stutts, University of North Carolina, Chapel Hill

Decision to Stop Driving: Exploration of Factors Influencing Older Driver Decision Making

Robert Vorek, AARP

National Survey on Older Persons' Driving and Transportation Issues

John W. Eberhard, National Highway Traffic Safety Administration

What Occupational Therapists Are Saying About Older Driver Issues

Wendy Stav, Florida Atlantic University

Are Older Drivers on State Legislative Agendas? Findings from a 50-State Survey

Joseph F. Coughlin, Massachusetts Institute of Technology

Discussants

Esther K. Wagner, National Highway Traffic Safety Administration ; Moya Benoit-Thompson, U.S. Department of Health and Human Services

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Monday, January 14, 8:00 a.m.-9:45 a.m., Marriott

Aggressive Driving and Hostile Attribution Bias

Sheila Sarkar, San Diego State University, presiding

Sponsored by Committee on Vehicle User Characteristics

Aggressive Driving: The Ontario Perspective

Leo Tasca, Ontario Ministry of Transportation, Canada

On-Road Aggression: Observational Study of Driver, Vehicle, and Context Variables

Richard P. Compton, National Highway Traffic Safety Administration; David Shinar, Ben Gurion University of the Negev, Israel

Seeking a Reduction in Aggressive Driving Through Different Strategies, (02-2786)

Richard A. Raub, Northwestern University Center for Public Safety; Richard I. Wark and Roy E Lucke, Northwestern University

Aggressive Driving and Hostile Attribution Bias

Patricia Ellison-Potter, National Highway Traffic Safety Administration

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Monday, January 14, 8:00 a.m.-9:45 a.m., Marriott

Impact of Traffic Variability on Pavement Design

Thomas Papagiannakis, Washington State University, presiding

Sponsored by Committee on Rigid Pavement Design; Committee on Flexible Pavement Design; and Committee on Highway Traffic Monitoring

Nonlinear Model for Predicting Pavement Serviceability, (02-2353)

Jorge A. Prozzi, University of California, Berkeley

Improving Reliability of Pavement Loading Estimates Using Pavement Loading Guide, (02-2658)

Jerry J Hajek, ERES Division of Applied Research Associates, Canada; Olga I. Selezneva and Y. Jane Jiang, ERES Consultants, Inc.; Goran Mladenovic, ERES Division of Applied Research Associates, Canada

Effect of Traffic Load Estimates on Pavement Design, (02-3550)

Raja A Shekharan and Barbara Katherine Ostrom, LAW-PCS

Analyzing Heavy Goods Vehicle Data Collected on Main Road Network in Greece, (02-2234)

George Mintsis, Aristotle University of Thessaloniki, Greece

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Monday, January 14, 8:00 a.m.-9:45 a.m., Marriott

Properties and Performance of Concrete in Transportation Structures

Edward G. Nawy, Rutgers University, presiding

Sponsored by Committee on Properties of Concrete

Qualitative Study of Correlation Between Bridge Vibration and Bridge Deck Cracking, (02-2136)

Sreenivas Alampalli, Frank T. Owens, and Deniz Sandhu, New York State Department of Transportation; Jorge Haddock, Rensselaer Polytechnic Institute

Relationship Between Washout Resistance and Rheological Properties of High-Performance Underwater Concrete, (02-2546)

Kamal Henry Khayat and Joseph Jean Assaad, University of Sherbrooke, Canada

Laboratory and Field Studies on Performance of PCC Dry Bottom Ash and Fly Ash Concrete in Cast-in-Place Drilled Shafts, (02-3036)

Nader Ghafoori, Tennessee Technological University

Influence of Type and Dosage of Antiwashout Admixtures on Performance of Underwater Concrete

Mohamed Nagib Abou-Zeid, American University in Cairo, Egypt

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Monday, January 14, 8:00 a.m.-9:45 a.m., Marriott

Enhancing Disadvantaged Business Enterprise Programs Through Training and Mentoring

Tom S. Clark, Roy Jorgensen Associates, Inc, presiding

Sponsored by Committee on Disadvantaged Business Enterprises (DBE)

This session will provide information to those individuals and organizations that may be considering the implementation of a formalized Mentoring Program and will describe the benefits, positive aspects, and pitfalls based upon their experiences.

Panel Discussion

Linda Valentine, VMS, Inc.; Steve Swanson, Community Mentor-Protege Initiative; Len Toenjes, Associated General Contractors of St. Louis

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Monday, January 14, 8:00 a.m.-9:45 a.m., Shoreham

Modified Asphalt Binders

Gayle N. King, Koch Materials, presiding

Sponsored by Committee on Characteristics of Bituminous Materials

Evaluation of the Performance of Pavement Sections Constructed in Grand Teton National Park, (02-2381)

Kenneth P. Thomas, P. Michael Harnsberger, and Raymond E. Robertson, Western Research Institute

Impact of Different Types of Modification on Low-Temperature Tensile Strength and T-critical of Asphalt Binders, (02-2578)

Susanna Man Sze Ho and Ludo Zanzotto, University of Calgary, Canada; Daryl MacLeod, Husky Energy, Canada

Effects of Microstructure on Deformation Characteristics of Modified Asphalt Mixtures at High Temperature, (02-2670)

Masato Murayama and Kenji Himeno, Chuo University, Japan

Laboratory Evaluation of Eight Polymer-Modified Asphalts, (02-3151)

Jian-Neng Wang, Ching-Yun Institute of Technology, Taiwan; Jyh-Dong Lin, Juei-Mao Wang, and Shin-Huang Chen, National Central University, Taiwan

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Monday, January 14, 8:00 a.m.-9:45 a.m., Shoreham

Prefabricated Bridges: High Safety, High Quality, Low Disruptions

James D. Cooper, Federal Highway Administration, presiding

Sponsored by Committee on Concrete Bridges; Committee on General Structures; and Committee on Steel Bridges

Overview of AASHTO Prefabricated Bridges Initiative

Mary Lou Ralls, Texas Department of Transportation

New York Prefabricated Bridge Systems

Jim O'Connell, New York State Department of Transportation

Virginia Prefabricated Bridge Systems

Malcolm T. Kerley, Virginia Department of Transportation

Texas Prefabricated Bridge Systems

Ronald D. Medlock and Gregg Freeby, Texas Department of Transportation

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Monday, January 14, 8:00 a.m.-9:45 a.m., Shoreham

Roadside Safety Features, Part 1 (Part 2, Session 151)

Owen S. Denman, Barrier Systems, Inc., presiding

Sponsored by Committee on Roadside Safety Features

Assessment of NCHRP Report 350 Test Vehicles, (02-3927)

King K. Mak, Consultant; Roger P. Bligh, Texas A&M University

Assessment of NCHRP Report 350 Test Conditions, (02-3644)

King K. Mak, Consultant; Roger P. Bligh, Texas A&M University

Development of the Midwest Guardrail System, (02-3157)

Dean L. Sicking, John D. Reid, and John R. Rohde, University of Nebraska, Lincoln

Practical Analysis of Cost-Effectiveness of Upgrading Guardrail End Treatments, (02-2294)

Douglas Peterson, Almon Associates

Crash Testing and Analysis of Work Zone Sign Supports, (02-3675)

Karla A. Polivka, John R. Rohde, Ronald K. Faller, and Dean L. Sicking, University of Nebraska, Lincoln

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Monday, January 14, 8:00 a.m.-9:45 a.m., Shoreham

Evaluation of Pavement Structure

Timothy J. Martin, Fugro-BRE, Inc., presiding

Sponsored by Committee on Pavement Monitoring, Evaluation, and Data Storage

Evaluation of Data Collection Methods for Pavement Layer Data, (02-3355)

Alan Roberto Martinot, Harding, ESE, a MACTEC Company; Zhanmin Zhang, University of Texas, Austin

Prediction of Daily Temperature in Flexible Pavements, (02-3477)

Brian Keith Diefenderfer, Concorr, Inc.; Imad L. Al-Qadi and Stacey Reubush, Virginia Polytechnic Institute and State University

Development of Approach to Determine In Situ Dielectric Constant of Pavements and Its Successful Implementation at Interstate 81, (02-2596)

Samer Lahouar, Imad L. Al-Qadi, and Amara Loulizi, Virginia Polytechnic Institute and State University; Trenton Clark and David Lee, Virginia Department of Transportation

Determination of Test Spacing in Pavement Evaluation, (02-2179)

Yunyi Zou, URS Corporation

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Monday, January 14, 8:00 a.m.-9:45 a.m., Shoreham

New Approaches for Airport Capacity and Demand Management

Eugene Gilbo, Volpe National Transportation Systems Center, presiding

Sponsored by Committee on Airfield and Airspace Capacity and Delay

Airport Demand Management: State-of-the-Art Review

Konstantinos G. Zografos and Michael A. Madas, Athens University of Economics and Business, Greece

Economic and Operational Impacts of Airport Capacity and Demand Management Policies

Peter F. Kostiuk, Logistics Management Institute

Airport Capacity Management: Arrival and Departure Interactions

Eugene Gilbo, Volpe National Transportation Systems Center

Effect of T-TMA on Capacity and Delay at Los Angeles International Airport, (02-4001)

Mark Hansen and Avijit Mukherjee, University of California, Berkeley; Dave Knorr, Federal Aviation Administration; Dan Howell, CNA Corporation

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Monday, January 14, 8:00 a.m.-9:45 a.m., Shoreham

Radical Departures: New Structures and Methods for Passenger Rail

Rohit T. Aggarwala, Columbia University, presiding

Sponsored by Committee on Intercity Rail Passenger Systems

Financially Internalizing Passenger Rail-Generated Nonuser Benefits: Environmental Case Study, (02-4136)

Peter Schwartz, Transportation Planner

How Much Does New Passenger Rail Service Cost?, (02-4070)

Foster Nichols, Parsons Brinckerhoff, Inc.

Whose Railroad Is This, Anyway? Opportunities and Challenges in Regionalizing the Northeast Corridor, (02-2636)

Rohit T. Aggarwala, Columbia University; Daniel Roth, FreightDesk.com

Buying into Amtrak: How to Fit American Railroads into Government's Spending on Transportation, (02-2333)

Anthony Perl, University of Calgary, Canada

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Monday, January 14, 8:00 a.m.-9:45 a.m., Shoreham

Obstruction Mapping and Analysis at Airports Using Geographical Information Systems

Randy Murphy, Grafton Technologies, presiding

Sponsored by Committee on Aircraft/Airport Compatibility and Committee on Spatial Data and Information Systems

Airborne Laser Swath Mapping for Determining Discrete Airspace Obstructions

Grady Tuell, University of Florida

National Oceanic and Atmospheric Administration's Use of Remote Sensing as a Means of Supporting Airport Geographic Information Systems

Michael Aslaksen and Jason Woolard, National Oceanic and Atmospheric Administration

Airfield Obstruction Management Software and Related Standards

Bryan L. Perdue, Army Engineer Research & Development Center; Stanley Mael, HB&A

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Monday, January 14, 8:00 a.m.-9:45 a.m., Hilton

Air Quality Conformity Issues and Experience in Large and Small Communities, Part 1 (Part 2, Session 156)

Karen J. Heidel, Consultant, presiding

Sponsored by Committee on Transportation and Air Quality

Panel Discussion:

Meg Patulski, AASMC; Fred Garcia, Arizona Department of Transportation; Lori Sundstrom, Oregon Department of Transportation; Ron Methier, Georgia Environmental Protection Division

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Monday, January 14, 8:00 a.m.-9:45 a.m., Hilton

Containerization, Logistics, and Supply Chain Management in Historical Perspective

Lillian C. Borrone, Consultant, presiding

Sponsored by Committee on Transportation History

Panel Discussion:

Arthur Donovan, U.S. Merchant Marine Academy; John R. McConnell, Jr., Consultant; John R. Meyer, Harvard University; Robert E. Gallamore, Northwestern University; Gary E. Maring, Federal Highway Administration

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Monday, January 14, 8:00 a.m.-9:45 a.m., Hilton

Building the Competency-Centered Organization: From Strategy to Practice

Barbara Martin, Montana Department of Transportation, presiding

Sponsored by Committee on Management and Productivity

Employee-Career Continuum: Finding and Keeping Exceptional Employees, (02-3731)

Jacqueline N. Hood, University of New Mexico; David P. Albright and Anthony Alarid, New Mexico State Highway and Transportation Department; Melanie Mullins, University of New Mexico

Competency-Based Recruitment and Retention in Union and Nonunion Environments

Marcy Magid, The Segal Company

Applying Competency Analysis in a State Department of Transportation: How We're Doing It

Irene Fulk, Pennsylvania Department of Transportation

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Monday, January 14, 8:00 a.m.-9:45 a.m., Hilton

Back to the Future: Walking to School Again

Peggy da Silva, Safe Routes to Schools Clearing House, presiding

Sponsored by Committee on Pedestrians and Committee on Bicycling

Safe Routes to School in Metropolitan Boston

Dorothea Hass, Walk Boston, Inc.

Working with Community in the Bronx, NYC

Ellen Cavanagh, Transportation Alternatives, NYC

Transportation Dollars for SRS in California

James Corless, STPP

A City Plans for Walk to School: Phoenix, AZ

Michael J. Cynecki, City of Phoenix

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Monday, January 14, 8:00 a.m.-9:45 a.m., Hilton

Asset Management, Part 1: How Are Institutions Using Asset Management Information? (Part 2, Session 160)

Jonathan L. Gifford, George Mason University, presiding

Sponsored by Task Force on Transportation Asset Management and Committee on Strategic Management

Institutional Issues in Implementing Asset Management Systems

Jonathan L. Gifford, George Mason University

Municipal Asset Management Systems

Andrew C. Lemer, The Matrix Group, LLC

What the NCHRP Project Has To Say About Asset Management System Use

Michael J. Marlow, Cambridge Systematics, Inc.

Developing Florida's Turnpike Asset Management System

William Thorp, Florida Department of Transportation

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Monday, January 14, 8:00 a.m.-9:45 a.m., Hilton

Major Transit Investments and Policy Issues

David R. Miller, Parsons Brinckerhoff Quade and Douglas, Inc., presiding

Sponsored by Committee on Public Transportation Planning and Development

Policies and Practices for Cost-Effective Transit Investments: Recent Experiences in the United States, (02-3248)

Elizabeth A. Deakin, Christopher Ferrell, Jonathan Mason, and John Thomas, University of California, Berkeley

FTA New Starts: ISTEA and TEA-21 Funding Commitments, (02-2656)

Donald J. Emerson, PBConsult, Inc.

Interpreting Outcomes of Local Transportation Ballot Measures with a Substantial Rail Transit Component: Case Study Approach, (02-2556)

Richard Werbel and Peter J. Haas, San Jose State University

Demographics of Public Transit Subsidies: Case Study of Los Angeles, (02-3966)

Hiroyuki Iseki and Brian D. Taylor, University of California, Los Angeles

Tool for Evaluating Transit Project Benefits: TCRP Project H-19 Results

Samuel Seskin, Parsons Brinckerhoff Quade and Douglas, Inc.

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Monday, January 14, 8:00 a.m.-9:45 a.m., Hilton

Technical Planning Tools for Small and Medium-Sized Communities

Jerry B. Schutz, Washington State Department of Transportation, presiding

Sponsored by Committee on Transportation Planning Needs and Requirements of Small and Medium-Sized Communities

Transferability of Nationwide Personal Transportation Survey Data to Regional and Local Scales, (02-2710)

Timothy Robert Reuscher, Richard L. Schmoyer Jr., and Patricia S. Hu, Oak Ridge National Laboratory

Developing a Long-Range Transportation Plan for Two Small-Sized Communities by Applying Planning Tools, (02-2204)

Mark Kagen Berger, Massachusetts Highway Department

Application of Robustness Analysis for Developing a Procedure for Better Urban Transportation Planning Decisions, (02-3335)

Deogratias Eustace, Eugene R. Russell, and E. Dean Landman, Kansas State University

Modeling a Small Network for Traffic Impact Study, (02-2608)

Lei Yu, Texas Southern University; Peng Yue, Georgia Department of Transportation; Chiu Liu, Villanova University

Densification and Urban Compaction: Reinforcing the Drive for Sustainability, (02-3577)

Austin Smyth, James Michael Cooper, Karen Donegan, and Timothy Ryley, Napier University, United Kingdom

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Monday, January 14, 8:00 a.m.-9:45 a.m., Hilton

Uses of Sampling Techniques in Transportation Decision Making

Anita Vandervalk, Florida Department of Transportation, presiding

Sponsored by Committee on Statewide Transportation Data and Information Systems

Sampling Vehicle-Hours of Travel, (02-4163)

Herbert S. Levinson, Consultant

Development of Random Sampling Procedure for Local Road Traffic Count Locations, (02-2435)

Sarah T. Bowling, Post, Buckley, Schuh and Jernigan; Lisa M. Aultman-Hall, University of Connecticut

Monte Carlo Simulation in Sampling Techniques of Traffic Data Collection, (02-2184)

Derek Guthrie Williamson, Maosheng Yao, and John McFadden, University of Alabama

Enhancements to Virtual Weather Station Methodology, (02-4037)

Alaeddin Mohseni, Pavement Systems

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Monday, January 14, 8:00 a.m.-9:45 a.m., Hilton

Activity-Travel Analysis: Interactive Agents, Fixed Commitments, and Spatial Transferability

T. Keith Lawton, Portland Metro, presiding

Sponsored by Committee on Passenger Travel Demand Forecasting

AMADEUS: Framework for Developing a Dynamic Multiagent, Multiperiod, (02-2494)

Harry Timmermans and Theo Arentze, Eindhoven University of Technology, Netherlands; Martin Dijst, Utrecht University, Netherlands; Elenna Dugundji, Amsterdam University, Netherlands; Chang-Hyeon Joh, Eindhoven University of Technology, Netherlands; Loek Kapoen, Amsterdam University, Netherlands; Stephan C. Krygsman, Utrecht University, Netherlands; Kees Maat, Delft University of Technology, Netherlands; Jan Veldhuisen, Eindhoven University of Technology, Netherlands

Investigation of Household Travel Behavior in Developing Countries Using a Nested Logit Model of Vehicle Ownership, Mode Choice, and Trip Chaining, (02-2688)

Dilum Deepika Dissanayake and Takayuki Morikawa, Nagoya University, Japan

Exploratory Analysis of Fixed Commitments in Individual Activity-Travel Patterns, (02-3268)

Chandra R. Bhat and Teresa Frusti, University of Texas, Austin; Kay W. Axhausen, ETH Zurich, Switzerland

Comparing Urban Activity Travel Behavior, (02-3006)

Cinzia Cirillo, University of Notre Dame, Belgium

Spatial Transferability of the Albatross Model System, (02-2071)

Theo Arentze, Eindhoven University of Technology, Netherlands; Frank Hofman and Henk van Mourik, Ministry of Transport, Public Works and Water Management, The Netherlands; Harry Timmermans, Eindhoven University of Technology, Netherlands

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Monday, January 14, 8:00 a.m.-9:45 a.m., Hilton

Shared-Use Vehicle Systems

Susan Shaheen, University of California, Davis and University of California, Berkeley, presiding

Sponsored by Subcommittee on Carsharing and Station Cars

California's Zero Emission Vehicle Mandate: Linking Clean Fuel Cars and Shared-Use Vehicle Approaches, (02-3857)

Susan Alison Shaheen, University of California, Davis and University of California, Berkeley; John Waugh Wright, University of California, Berkeley; Daniel Sperling, University of California, Davis

Taxonomy of Shared-Vehicle Systems, (02-3854)

Matthew J. Barth, University of California, Riverside; Susan Shaheen, University of California, Davis and University of California, Berkeley

Shared Electric Vehicles in Denver: Extending the Station Car and Car-Sharing Concepts, (02-3081)

Martin J. Bernard III and Nancy E. Collins, Q4 Associates

Simulation Analysis for Management of Electric-Vehicle Sharing System: Case of the Kyoto Public-Car System, (02-2653)

Shoichiro Nakayama, Kanazawa University, Japan; Toshiyuki Yamamoto and Ryuichi Kitamura, Kyoto University, Japan

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Monday, January 14, 8:00 a.m.-9:45 a.m., Hilton

Intermodal Transit Facilities and Security, Part I (Part 2, Session 166)

Thomas R. Hickey, Delaware River Port Authority Transit Corporation, presiding

Sponsored by Committee on Intermodal Transfer Facilities

Cops, Cameras, and Enclosures

Darin Allan, University of South Florida

New York City Perspective

Lawrence G. Reuter, MTA New York City Transit

Israel Perspective

Gregory L. Newmark, Ministry of Environment, Israel

Los Angeles County Metropolitan Transportation Authority Perspective

Paul Lennon, Los Angeles County Metropolitan Transportation Authority

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Monday, January 14, 8:00 a.m.-9:45 a.m., Hilton

Large City Planning Issues

Andrea d'Amato, Boston Department of Transportation, presiding

Sponsored by Committee on Transportation Issues in Major U.S. Cities

Panel Discussion:

Freight

John Tomsik, Chicago Department of Transportation

Operations Planning for Local Government

Robert Hicks, Public Technologies Inc.

Transportation Recovery Plan for Lower Manhattan

Susan Kupferman, New York University

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Monday, January 14, 9:00 a.m.-noon, Marriott

Freeway Management (Poster Session)

Sponsored by Committee on Freeway Operations

MP-1 Automatic Real-Time Detection and Correction of Erroneous Detector Data Using Fourier Transforms for Online Traffic Control Architectures, (02-2244)

Srinivas Peeta and Ioannis Anastassopoulos, Purdue University

MP-2 Road Users' Attitudes Toward Call Boxes on Dulles Toll Road in Virginia, (02-2427)

Kimberly Vachal, North Dakota State University; Kenneth Button and Lee Higgins, George Mason University

MP-3 Modeling the Duration of Urban Traffic Congestion, (02-2434)

Matthew G. Karlaftis and Anthony Stathopoulos, National Technical University of Athens, Greece

MP-4 Dynamic Travel Time Prediction with Real-Time and Historical Data, (02-2548)

Steven Chien and Chandra Mouly Kuchipudi, New Jersey Institute of Technology

MP-5 Freeway Travel Time Prediction with State-Space Neural Networks, (02-2797)

Hans van Lint, Delft University of Technology, Netherlands

MP-6 Prototype Hybrid Configuration and Asset Management System to Support Transportation Management Systems, (02-3199)

Brian Lee Smith and Dave B Hodgins, University of Virginia

MP-7 Effect of Variable Message Signs on Relationship Between Mean Speeds and Speed Deviations, (02-3271)

Venkataraman N. Shankar, Gudmundur Ulfarsson, and Patrick Vu, University of Washington

MP-8 Investigation of Incident Frequency, Duration, and Lane Blockage for Determining Traffic Delay, (02-3319)

Hualiang Teng and Yi Qi, Polytechnic University of New York

MP-9 Improved Vehicle Reidentification and Travel Time Measurement on Congested Freeways, (02-3680)

Benjamin A. Coifman, Ohio State University; Edgar Ergueta, No Organization

MP-10 Robust Method of Filtering Single-Loop Data for Improved Speed Estimation, (02-3843)

Yinhai Wang and Nancy L. Nihan, University of Washington

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Monday, January 14, 9:00 a.m.-noon, Shoreham

Pavement Management Systems (Poster Session)

Thomas J. Kazmierowski, Ministry of Transportation of Ontario, Canada, presiding
Sponsored by Committee on Pavement Management Systems and Committee on Surface Properties - Vehicle Interaction

SP-1 Estimating Vehicle Operating Costs from Pavement Distresses for the Cities and Counties of San Francisco Bay Area, (02-2734)

Shameem Ahmed Dewan, Texas A&M University; Roger E. Smith, Texas Transportation Institute

SP-2 Multicriteria Evaluation for Pavement Management, (02-3898)

Salvatore Cafiso and Alessandro Di Graziano, Catania University, Italy; Henry Rupiny Kerali and J. B. Odoki, University of Birmingham, United Kingdom

SP-3 Colorado Department of Transportation's Transition to a Remaining Service Life-Based Pavement Management System, (02-2463)

Mike Keleman, Ali Farrokhyar, and Stephen Henry, Colorado Department of Transportation; Rob Piane, Deighton Associates Limited, Canada; Richard Zamora and Mike Zaturenskiy, Colorado Department of Transportation

SP-4 Implementation of Dynamic Segmentation for a Pavement Management Information System, (02-3241)

Y. J. Eddie Chou, University of Toledo; Joey L Mathias, Finkbeiner, Pettis & Strout, Inc.; Chenchen Wang, University of Toledo

SP-5 Why (Not How) Kansas Department of Transportation's Pavement Management System Works and How Preventive Maintenance Actions Are Integrated, (02-3266)

Richard W. Miller, Kansas Department of Transportation

SP-6 Pavement Distress Deduct-Value Determination: A New Approach, (02-2629)

Zhongren Wang, University of Tennessee, Knoxville

SP-7 Development of Pavement Management System for Municipality Roads in Saudi Arabia, (02-2978)

Hamad I. Al-Abdul Wahhab, Rezaqallah H. Ramadhan, Ibrahim M. Asi, and jaweed M. Yazdani, King Fahd University of Petroleum and Minerals, Saudi Arabia

SP-8 Calibration and Verification of a Mechanistic Pavement Roughness Performance Model, (02-2025)

Mofreh Fawzy Saleh, University of Canterbury, New Zealand

SP-9 Priority Weighting Factors for Pavement Maintenance Management, (02-2154)

Tien F. Fwa, Wing Tat Chan, and Yurong Liu, National University of Singapore

SP-10 Evaluation of Expenditures on Rural Interstate Pavements in Kansas, (02-3243)

Stephen A Cross and Robert Lee Parsons, University of Kansas

SP-11 Geometric Descriptors of Road Surface Texture in Relation to Tire and Road Noise, (02-2958)

Fabienne Anfosso-Ledee and Minh-Tan Do, Laboratoire Central des Ponts et Chaussées, France

SP-12 Gray System Model for Estimating Pavement International Roughness Index, (02-2495)

Yi Jiang, Purdue University; Shuo Li, Indiana Department of Transportation

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Monday, January 14, 10:15 a.m.-noon, Marriott

Contractor Quality Issues in Construction, Part 2 (Part 1, Session 100)

Steven D. DeWitt, North Carolina Department of Transportation, presiding

Sponsored by Committee on Construction Management

Contracto- Led Quality Control and Quality Assurance Plus Design-Build: Who Is Watching the Quality?, (02-3941)

James J. Ernzen and Tom Feeney, Arizona State University

Quality-Based Prequalification of Contractors, (02-2842)

Donn E. Hancher and Sean Eric Lambert, University of Kentucky

Quality Management System for a Highway Megaproject, (02-4102)

Donath M. Mrawira, Jeff H. Rankin, and A. John Christian, University of New Brunswick, Canada

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Monday, January 14, 10:15 a.m.-noon, Marriott

Traffic Signs and Wider Pavement Markings

Benjamin H. Cottrell Jr., Virginia Transportation Research Council, presiding

Sponsored by Committee on Traffic Control Devices

Evaluation of Clearview on Freeway Guide Signs with Microprismatic Sheeting, (02-3063)

Paul J. Carlson, Texas Transportation Institute

Freeway Guide Sign Design for Central Artery Tunnel Using a Driving Simulator, (02-2981)

Jonathan E. Upchurch, Donald Lloyd Fisher, Rick Carpenter, and Arup Dutta, University of Massachusetts, Amherst

Evaluation of Active Advance Warning Signs and Advance Detection Dilemma Zone Protection on High-Speed Signalized Intersection Approaches, (02-2382)

Patrick T. McCoy, Geza Pesti, and Vijayakumar Kannan, University of Nebraska, Lincoln

Use of Wider Longitudinal Pavement Markings in United States and Canada, (02-4119)

Timothy Jordan Gates, Texas Transportation Institute

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Monday, January 14, 10:15 a.m.-noon, Marriott

Microscopic Models of Driver and Traffic Behavior

James C. Williams, University of Texas, Arlington, presiding

Sponsored by Committee on Traffic Flow Theory and Characteristics

Development, Evaluation, and Comparison of Acceleration Models, (02-3767)

Ghulam Hussain Bham and Rahim F. Benekohal, University of Illinois, Urbana-Champaign

Application of Car-Following Systems in Microscopic Time Scan Simulation Models, (02-2759)

Stephen L. Cohen, Consultant

Observational Study of Lane Changing on Basic Freeway Segment, (02-3400)

Mohmad Shahab Uddin and Siamak A. Ardekani, University of Texas, Arlington

Characterizing Lane-Choice Behavior to Build Rules as Part of Lane-Based Traffic Microsimulation Hierarchy, (02-2479)

Heng Wei, Iteris, Inc.; John Eric Meyer, University of Kansas; Jonathan Chuen Feng, West Virginia Soil Conservation District; Joe Lee, University of Kansas

Design and Implementation of a Control Theory-Based Microscopic Traffic Flow Model, (02-3896)

Huajing Shi and Athanasios Ziliaskopoulos, Northwestern University

Analytic, Microscopic Model of Traffic Flow and Travel Time, (02-3480)

Fabien Leurent, SETRA, France

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Monday, January 14, 10:15 a.m.-noon, Marriott

Analysis and Design and Integral Bridge Abutment Foundations

James M. Sheahan, HDR Engineering, Inc., presiding

Sponsored by Committee on Foundations of Bridges and Other Structures

Performance of Piles Supporting Integral Bridges, (02-2626)

Sami Arsoy, Sakarya University, Turkey; Michael Duncan and Richard M. Barker, Virginia Polytechnic Institute and State University

Implementation of Cone Penetration Test Technology in Design and Analysis of Driven Piles, (02-2822)

Hani Titi, University of Wisconsin, Milwaukee; Myrad Y Abu-Farsakh and Mark Morvant, Louisiana Transportation Research Center

Enhanced Pot Tests for Characterization of Multidirectional p-y Behavior for Multidirectional Dynamic Analyses of Pile Foundations, (02-3435)

Juan M. Mayoral, Juan M. Pestana, and Raymond B. Seed, University of California, Berkeley

Comparison of Measured Bending Moments with Bending Moments Calculated with LPILE Laterally Loaded Piles, (02-2777)

Earl E. Ingram, Edwin G. Burdette, David William Goodpasture, and James Harold Deatherage, University of Tennessee, Knoxville; Christopher Allen Myers, Carpenter Wright Engineers

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Monday, January 14, 10:15 a.m.-noon, Marriott

Recent Developments in Driver Improvement

Daniel R. Mayhew, Traffic Injury Research Foundation, Canada, presiding

Sponsored by Committee on Operator Education and Regulation

Driver Improvement: Status and Stasis

Larry Lonero, Northport Associates, Canada

Meta Analysis of Driver Improvement Literature: Preliminary Status Report

Raymond Peck, R.C. Peck and Associates

Driver Improvement: Preventing Accidents or Recidivism?

A. James McKnight, Transportation Research Associates

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Monday, January 14, 10:15 a.m.-noon, Marriott

Integrating Pavement Management Systems and Preventive Maintenance

Dean M. Testa, Kansas Department of Transportation, presiding

Sponsored by Committee on Pavement Maintenance and Committee on Pavement Management Systems

Integrating Pavement Preservation into Local Agency Pavement Management System, (02-3739)

Roger E. Smith, , Texas Transportation Institute

Effectiveness of Preventive Maintenance Treatments Using SPS-3 Data, (02-2587)

Deng-Fong Lin, I-Shou University, China; Dar-Hao Chen, Texas Department of Transportation; Huan-Lin Luo, I-Shou University, Taiwan

Investigation of Relationship Between Optimal Pavement Strategy and Developmental Stage of a Country's Economy Using HDM-4, (02-2580)

Riaz Ul-Islam and Koji Tsunokawa, Saitama University, Japan

Maintenance and Preservation of the District of Columbia's National Highway System Pavement Assets, (02-2408)

Gonzalo R. Rada, LAW-PCS; Jonathan Groeger, Axiom Decision Systems, Inc.; Geoffrey M. Hall, LAW-PCS; Mark D. Robinson, SAIC; Edward A. Sheldahl, FHWA

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Monday, January 14, 10:15 a.m.-noon, Marriott

Hand-Held Devices for Track Inspection and Maintenance Planning: Opportunities, Risks, and Challenges

Daniel B. Mesnick, TransTech Management, presiding

Sponsored by Committee on Railway Maintenance

Application of Computerized Hand-Held Tie Inspection System on Burlington Northern and Santa Fe Railway Company

Larry A. Parker, Burlington Northern and Santa Fe Railway Company

Identifying Track Defects and Programming Production Outputs Using Hand-Held Technologies: Union Pacific Experience

Jim Holder, Union Pacific Railroad

Office in the Field: Using Hand-Held Technologies for Track Inspection, Maintenance, and Production Planning

Daniel B. Mesnick, TransTech Management; Ted Selig, Optram, Inc.

Track Construction and Maintenance Planning at New York City Transit with Hand-Held Computers

Michael S. Dawson, MTA New York City Transit Authority

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Monday, January 14, 10:15 a.m.-noon, Marriott

European Contract Administration: New Ideas and Trends in Construction

Eric M. Kerness, New York State Department of Transportation, presiding

Sponsored by Committee on Contract Law

Report of European Scan

Keith Molenarr, University of Colorado, Boulder; Frank Gee, Virginia Department of Transportation

Legal Implications and Charter for Change

Nancy C. Smith, Nossaman, Guthner, Knox & Elliott, LLP

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Monday, January 14, 10:15 a.m.-noon, Marriott

Seniors: Creative Challenge for the Transportation Community

Helen Kerschner, Beverly Foundation, presiding

Sponsored by Committee on Safe Mobility of Older Persons; Committee on Intercity Rail Passenger Systems; Committee on Paratransit; Committee on Accessible Transportation and Mobility; and Committee on Rural Public and Intercity Bus Transportation

The ADA: Has It Hurt or Helped Transportation for Seniors?

Richard Weiner, Nelson\Nygaard Consulting Associates

Transportation Strategies for an Aging Society

Rosemary G. Mathias, Multisystems, Inc.

Contribution of Informal Senior Transportation Programs

Rhonda Aizenberg and Helen Kerschner, Beverly Foundation

Benefits of Coordinated Transportation Services to Seniors and Others

Jon E. Burkhardt, Westat

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Monday, January 14, 10:15 a.m.-noon, Marriott

Animal-Vehicle Collisions: Issues, Solutions, and State of the Practice

Pat McGowen, Montana State University, presiding

Sponsored by Committee on Safety Data, Analysis, and Evaluation

Overview of Center for Transportation and the Environment Efforts and National Research Direction

Kathryn P. McDermott, North Carolina State University

Status of National Center for Research Excellence on Deer-Vehicle Collisions and Clearinghouse Project

Keith K Knapp, University of Wisconsin

Results of 2000 Nationwide State Department of Transportation Survey of Deer-Vehicle Collision Issues

Terry Mesmer, Utah State University

Overview of NCHRP Synthesis Topic "Interaction Between Wildlife Ecology and Transportation Systems"

Gary L. Evink, Florida Department of Transportation

Wildlife Ecology and Transportation Issues in Europe

Fred Bank, FHWA

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Monday, January 14, 10:15 a.m.-noon, Marriott

Interaction Between Concrete Pavement Slabs and Base Layers

Thomas H. Yu, ERES Consultants, Inc., presiding

Sponsored by Committee on Rigid Pavement Design

ISLAB2000 Simplified Friction Model, (02-3529)

Lev Khazanovich and Alex Gotlif, ERES Consultants, Inc.

Evaluation of Subbase Friction for Typical Korean Concrete Pavement, (02-2677)

Young-Chan Suh, Hanyang University, Korea; Seung Woo Lee, Daewoo Institute of Construction Technology, Korea; Min Su Kang, Hanyang University, Korea

Closed-Form and Graphical Solutions, (02-2575)

Krishnakumar Sanjeevirao and Anastasios M. Ioannides, University of Cincinnati

Thermal Gradients in Concrete Pavements in Tropical Environments, (02-2560)

Jose Tadeu Balbo and Andrea Arantes Severi, Universidade de Sao Paulo, Brazil; Deividi Silva Pereira, Poli - USP, Brazil

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Monday, January 14, 10:15 a.m.-noon, Marriott

Impact of Construction Techniques on Concrete Properties and Performance

Richard A. Miller, University of Cincinnati, presiding

Sponsored by Committee on Properties of Concrete and Committee on Concrete Materials and Placement Techniques

Effect of Curing Methods on Durability of High-Performance Concrete, (02-3305)

Hani Hamad Nassif, Rutgers University

Heat Removal from Mass Concrete Footing, (02-2883)

Chiu Liu, Villanova University

Comparative Study on Production of Field-Produced High-Performance Concrete, (02-2741)

John J. Myers, University of Missouri, Rolla

Evaluating the Air Content Changes in Hydraulic Concrete Due to Pumping, (02-3276)

Mark D. Nelson, Christina Spindler, Khaled Ksaibati, and Charles W. Dolan, University of Wyoming

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Monday, January 14, 10:15 a.m.-noon, Marriott

Implications of Soil Suction in Roadway Design

James B. Nevels Jr, Oklahoma Department of Transportation, presiding

Sponsored by Committee on Engineering Behavior of Unsaturated Soils

Environmental Impacts on Subgrade Resilient Modulus for Idaho Pavements, (02-3247)

Mostafa A. Abo-Hashema and Fouad M. Bayomy, University of Idaho; Robert M. Smith, Idaho Transportation Department; Hassan M. Salem, University of Idaho

Effects of High Groundwater Table and Capillary Rise on Pavement Base Clearance of Granular Subgrades, (02-3184)

Wei-Chou Virgil Ping and Chaohan Zhang, Florida A&M University - Florida State University; Zenghai Yang, Florida State University

Filter Paper Technique for Measurement of Total Soil Suction, (02-2140)

William J. Likos and Ning Lu, Colorado School of Mines

Effects of Compaction Moisture Content on Shear Strength Parameters of Unsaturated Clay, (02-2066)

Erdal Cokca and Orhan Erol, Middle East Technical University, Turkey

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Monday, January 14, 10:15 a.m.-noon, Shoreham

Spotlight on Security and Recovery

Michael P. Jackson, U.S. Department of Transportation, presiding

Sponsored by U.S. Department of Transportation

This session will set the context for more than 15 sessions and workshops that are part of TRB's "Spotlight on Security and Recovery" at this Annual Meeting. This session will address the issues of security, preparedness, and recovery across all modes, including the steps taken during and immediately after the events of September 11, actions under way, and what the future may hold. Other Spotlight sessions will focus on these issues as they pertain to individual modes and disciplines.

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Monday, January 14, 10:15 a.m.-noon, Shoreham

Aging of Asphalt Binders

Paul W. Jennings, National Science Foundation, presiding

Sponsored by Committee on Characteristics of Bituminous Materials

Effect of Various Aging Techniques on Asphalt Low-Temperature Properties, (02-3223)

Daniel B. Knorr, Jr., Richard R. Davison, and Charles J. Glover, Texas A&M University System

Effect of Hydrated Lime on Long-Term Oxidative Aging Characteristics of Asphalt, (02-2405)

Shin-Che Huang, Western Research Institute; J. Claine Petersen, Consultant; Raymond E. Robertson and Jan F. Branthaver, Western Research Institute

Development of New Stirred Air-Flow Test Procedure for Short-Term Aging of Asphaltic Materials, (02-3530)

Nikolai Y. Vassiliev, Richard R. Davison, and Charles J. Glover, Texas A&M University System

Long-Term Oxidation and Age-Hardening Evaluations of Asphalts Recovered from Railroad Trackbed Substructures, (02-2836)

Raymond E. Robertson, Western Research Institute; Jerry G. Rose, University of Kentucky

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Monday, January 14, 10:15 a.m.-noon, Shoreham

Practical Applications of Seismic Response Modification Devices

Hamid Ghasemi and W. Phillip Yen, Federal Highway Administration, presiding

Sponsored by Seismic Design of Bridges

Dynamic Response Validation of Large Seismic Isolation Devices for Bridge Design and Retrofit

Frieder Seible, University of California, San Diego

Performance of Bolu Viaduct During the 1999 Duzce Earthquake

Michael Constantinou, State University of New York, Buffalo

Practical Lessons Learned for Bridge Isolation Bearings from Chi-Chi Earthquake, Taiwan

K.C. Chang, National Center for Research Earthquake Engineering, Taiwan

Design Considerations of Bridge Isolation Bearings for Large Ground Displacements

George C. Lee, Multidisciplinary Center for Earthquake Engineering Research; Zach Liang, State University of New York, Buffalo

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Monday, January 14, 10:15 a.m.-noon, Shoreham

Roadside Safety Features, Part 2 (Part 1, Session 116)

Ronald K. Faller, University of Nebraska, Lincoln, presiding

Sponsored by Committee on Roadside Safety Features

Critical Impact Points for Transitions and Terminals, (02-3509)

Roger P. Bligh, Texas A&M University; King K. Mak, Consultant

Box-Beam Burster Energy-Absorbing Single-Sided Crash Cushion, (02-2531)

John D. Reid, John R. Rohde, and Dean L. Sicking, University of Nebraska, Lincoln

Vehicle Impacts in V Ditches, (02-3950)

Robert William Thomson, Chalmers University of Technology, Sweden; Jarkko Valtonen, Helsinki University of Technology, Finland

Flared Energy-Absorbing Terminal Median Barrier, (02-2909)

John R. Rohde, John D. Reid, and Dean L. Sicking, University of Nebraska, Lincoln

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Monday, January 14, 10:15 a.m.-noon, Shoreham

Pavement Performance Evaluation

Jack Springer, Federal Highway Administration, presiding

Sponsored by Committee on Pavement Monitoring, Evaluation, and Data Storage

Performance of Pavements Subject to Higher Truck Weight Limits in Virginia, (02-2782)

Thomas E. Freeman, Virginia Transportation Research Council; Trenton Clark, Virginia Department of Transportation

Probabilistic Model for Prediction of Asphalt Pavement Crack Depths, (02-2572)

Mampearachchige Wasantha Kumara, Manjriker Gunaratne, and Jian John Lu, University of South Florida; Bruce Dietrich, Florida Department of Transportation

Data Analysis of a Real-Time System for Automated Distress Survey, (02-2621)

Kelvin C.P. Wang, University of Arkansas

Thirty-Three-Year Performance of Jointed Concrete Test Sections in North Carolina, (02-2516)

Judith B. Corley-Lay and Clark S. Morrison, North Carolina Department of Transportation

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Monday, January 14, 10:15 a.m.-noon, Shoreham

Airport Benchmarking: New Performance Metric

Donald J. Guffey, Federal Aviation Administration, presiding

Sponsored by Committee on Airfield and Airspace Capacity and Delay and Committee on Aviation Economics and Forecasting

Beyond Benchmarking

Donald J. Guffey, Federal Aviation Administration

FAA's Aviation Performance Metrics

David Richards, Federal Aviation Administration

Airport Arrival and Departure Trade-off Optimization Tool for Strategic TFM

Eugene Gilbo, Volpe National Transportation Systems Center

Assessing the Impact of a Major Earthquake on Airports: Application of a Comprehensive Air Transport Modeling System, (02-4051)

Peter Chen, University of Illinois, Urbana-Champaign; Chen-En Chen, University of Alabama, Birmingham

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Monday, January 14, 10:15 a.m.-noon, Shoreham

Future of National Freight Data Programs

Michael S. Bronzini, George Mason University, presiding

Sponsored by Committee on Freight Transportation Data

Data Needs in the Changing World of Logistics and Freight Transportation: Report from November 2001 Workshop

Arnim H. Meyburg and John R. Mbwana, Cornell University

Future Directions for Freight Data Programs at the Bureau of Transportation Statistics

Jack Wells, Bureau of Transportation Statistics

Transportation Data Programs at the Bureau of the Census

Thomas E. Zabelsky, Bureau of the Census

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Monday, January 14, 10:15 a.m.-noon, Shoreham

Truck and Bus Crash Data: The State of Our Knowledge

Patricia S. Hu, Oak Ridge National Laboratory, presiding

Sponsored by Task Force on Truck and Bus Safety

Truck and Bus Crash Characteristics: Clues for Improving Safety

Mark Lee Edwards, GAIA, Inc.

FMCSA's Crash Causation Study

Ralph Craft, National Governors Association

Strengths and Weaknesses of Current Truck and Bus Crash Data Systems

Robert A. Scopatz, Data Nexus, Inc.

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Monday, January 14, 10:15 a.m.-noon, Hilton

Air Quality Conformity Issues and Experience in Large and Small Communities, Part 2 (Part 1, Session 121)

Sarah J. Siwek, Sarah J. Siwek & Associates, presiding

Sponsored by Committee on Transportation and Air Quality

Palel Discussion

Cecilia Ho, Federal Highway Administration; Virginia Porta, Arkansas Highway Department; John Zamurs, New York State Department of Transportation

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Monday, January 14, 10:15 a.m.-noon, Hilton

Urban Metadata

Marcus Wigan, Oxford Systematics, Australia, presiding

Sponsored by Committee on Urban Transportation Data and Information Systems

Enabling and Managing Greater Access to Transport Data Through Metadata, (02-3064)

Marcus Wigan, Oxford Systematics, Australia; Margaret Grieco and Julian Hine, Napier University, United Kingdom

Relevant Data for Transportation Analysis: Search Framework Using Metadata, (02-2654)

Nariida C. Smith, Gerardo S Trinidad, and Vivian Salim, CSIRO Building Construction and Engineering, Australia

Time-Use Metadata, (02-3807)

Andrew Harvey, International Association for Time Use Research, Canada

Success Factors in Implementing Metadata in the National Spatial Data Infrastructure

John Moeller, Federal Geographic Data Committee

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Monday, January 14, 10:15 a.m.-noon, Hilton

Transportation Workforce Development Around the World

Elaine E. Joost, U.S. Department of Transportation, presiding

Sponsored by Committee on Transportation Education and Training

Findings of a Recent Scanning Tour of Four European Countries

Randy Bergquist, U.S. Department of Transportation

Asian Pacific Economic Cooperation Study of Twenty-One Countries' Coming Needs for Intermodal Transportation Skills

Joseph Szyliowicz, University of Denver

Addressing Transportation Workforce Development Needs in South Africa

Fred Hugo, Center for Transportation Research

Facilitated Interactive Group Discussions

Patricia L. Lees, Nichols Consulting Engineers, Chtd.

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Monday, January 14, 10:15 a.m.-noon, Hilton

Personnel and Equipment Issues in Transit Fleet Maintenance

Stephen M. Stark, MTA New York City Transit, presiding

Sponsored by Committee on Transit Fleet Maintenance

Training for Advanced On-Board Electronics: State of the Practice

John J. Schiavone, John Schiavone & Associates

Where Are the Future Maintenance Technicians Coming from?, (02-2202)

Amber Reep and Edward Bart, Center for Urban Transportation Research

Transit Asset Condition Assessments for Rail Vehicles

Richard Laver, Osama A. Tomeh, and Donald C. Schneck, Booz, Allen & Hamilton, Inc.

Rolling Stock Corrosion Control, (02-4122)

Balajirao Gadambur Krishnamurthy, Booz, Allen & Hamilton Inc.; Thomas C Shockley, Maryland Mass Transit Administration

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Monday, January 14, 10:15 a.m.-noon, Hilton

Asset Management, Part 2: Developing Useful Asset Management Systems (Part 1, Session 125)

Ernest F. Wittwer, Midwest Regional University Transportation Center, presiding

Sponsored by Task Force on Transportation Asset Management and Committee on Strategic Management

Actors and Directions in U.S. Transportation Asset Management, (02-3536)

Odd J. Stalebrink and Jonathan L. Gifford, George Mason University

A Conceptual Framework for Defining and Developing an Integrated Asset Management System

Louis H. Adams, New York State Department of Transportation

New Mexico Roadway System Performance and Planning Matrix

Pete K. Rahn, New Mexico State Highway and Transportation Department

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Monday, January 14, 10:15 a.m.-noon, Hilton

Transit Planning Methods and Operations

Edward A. Beimborn, University of Wisconsin, Milwaukee, presiding

Sponsored by Committee on Public Transportation Planning and Development

Development of Geographic Information System-Based Regional Transit Feasibility Analysis and Simulation Tool, (02-2227)

Ram M. Pendyala, University of South Florida; Ike Ubaka, Florida Department of Transportation; Nadarajah Sivaneswaran, S & D Associates

New Urban Public Transportation Systems: Review of Initiatives, Experiences, and Effectiveness, (02-2585)

Avishai Ceder, Technion - Israel Institute of Technology

Development of Time-of-Day-Based Transit Accessibility Analysis Tool, (02-2226)

Steven E. Polzin, Ram M. Pendyala, and Sachin R. Navari, University of South Florida

Benefits of Pilot Implementation of Public Transport Signal Priorities and Real-Time Passenger Information, (02-2357)

Risto Olavi Kulmala and Mikko J. Lehtonen, VTT Communities and Infrastructure, Finland

Unlimited Access: Evaluating the Results, (02-2762)

Jeffrey R Brown, Institute of Transportation Studies; Daniel Baldwin Hess and Donald C. Shoup, University of California, Los Angeles

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Monday, January 14, 10:15 a.m.-noon, Hilton

Building Technical Capacity Among Rural Transportation Planning Process Practitioners

Jill Hochman, Federal Highway Administration, presiding

Sponsored by Committee on Transportation Planning Needs and Requirements of Small and Medium-Sized Communities

Panel Discussion

Jean Raymond, Saratoga County; Karen Miller, Boone County; Kenneth J. Leonard, Wisconsin Department of Transportation; Sandra Straehl, Montana Department of Transportation; Jill Hochman, Federal Highway Administration

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Monday, January 14, 10:15 a.m.-noon, Hilton

Environmental Information and Decision Support for Transportation (NCHRP 25-23)

Wayne Kober, Wayne W. Kober, Inc., presiding

Sponsored by Committee on Environmental Analysis in Transportation

What We Learned About Environmental Information Management and Decision Support Systems for Transportation Users

William A. Hyman, Booz, Allen & Hamilton, Inc.

Geoplan as an Environmental Management System

Alir Bejleri, University of Florida

Integrating GIS, CADD, Databases, and the Internet for Environmental Management

Randy Tardy, Bentley Systems, Inc.

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Monday, January 14, 10:15 a.m.-noon, Hilton

Flexible Discrete Choice Models: Specification, Estimation, and Application

Karthik K. Srinivasan, Vanderbilt University, presiding

Sponsored by Committee on Passenger Travel Demand Forecasting

Logit Kernel (Continuous Mixed Logit) Model: Dispelling Misconceptions of Identification, (02-3937)

Joan Walker, Massachusetts Institute of Technology

Simulation Estimation of Mixed Discrete Choice Models Using Randomized and Scrambled Halton Sequences, (02-2146)

Chandra R. Bhat, University of Texas, Austin

Adaptation of Logit Kernel to Route Choice Situation, (02-3882)

Shlomo Bekhor and Moshe E. Ben-Akiva, Massachusetts Institute of Technology; Scott Ramming, J.F. Sato and Associates

Predicting Mode Choice Through Multivariate Recursive Partitioning, (02-2457)

Matthew G. Karlaftis, National Technical University of Athens, Greece

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Monday, January 14, 10:15 a.m.-noon, Hilton

New Transit Technology

Edward S. Neumann, University of Nevada, Las Vegas, presiding

Sponsored by Committee on New Transportation Systems and Technology

Cell Phone Access to Real-Time Transit Information, (02-3863)

Stuart D Maclean and Daniel J. Dailey, University of Washington

Building an Intelligent Transit Agency, (02-3497)

Eva Lerner-Lam, The Palisades Consulting Group, Inc.; James E. Davis, New York State Department of Transportation; Nancy Neuerburg, Consultant; Michael Paternostro, Clever Devices, Inc.

Examples of New Intelligent Transportation Systems Applications in Europe to Improve Bus Services, (02-3451)

Nick Hounsell and Graham Wall, Transportation Research Group, United Kingdom

Developing Operational Procedure for Creating Global Positioning System-Based Bus Route Information for Intelligent Transportation Systems Applications, (02-2657)

Wei-Hua Lin, University of Arizona; Vijaybalaji Padmanabhan, i2 Technologies

Comparison of Bus Propulsion Technologies in Connecticut

Herbert S. Levinson, Consultant

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Monday, January 14, 10:15 a.m.-noon, Hilton

Intermodal Transit Facilities and Security, Part 2 (Part I, Session 131)

Thomas R. Hickey, Delaware River Port Authority Transit Corporation, presiding

Sponsored by Committee on Intermodal Transfer Facilities

Cleveland Perspective

Joseph A. Calabrese, Greater Cleveland Regional Transit Authority

Salt Lake City Perspective

Paul O'Brien, Utah Transit Authority

Metrolink Perspective

Edward Pederson, Southern California Regional Rail Authority

Golden Gate Perspective

Celia Kupersmith, Golden Gate Bridge, Highway & Transportation District

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Monday, January 14, 10:15 a.m.-noon, Hilton

Large City Transportation Operations

Elliot G. Sander, New York University, presiding

Sponsored by Committee on Transportation Issues in Major U.S. Cities

Panel Discussion:

Toll Roads in Rio

Jean Claude Ziv, Conservatoire National des Arts et Metiers, France

Single-Occupancy Vehicles

Charles Ukegbu, New York City Department of Transportation

Application of Technology for Large City Transportation Operations

Frances T. Banerjee, Los Angeles Department of Transportation

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Monday, January 14, 1:30 p.m.-3:15 p.m., Marriott

Permeability and Drainage of Hot-Mix Asphalt Pavements

Scott Shuler, Lafarge, presiding

Sponsored by Committee on Characteristics of Bituminous-Aggregate Combinations To Meet Surface Requirements

Round-Robin Study for Field Permeability Test, (02-3624)

Allen Cooley, National Center for Asphalt Technology; Saeed Magsoodloo, Auburn University

Evaluation of Measurement Techniques for Asphalt Pavement Density and Permeability, (02-3907)

Brian D. Prowell, National Center for Asphalt Technology; Michael C. Dudley, Virginia Transportation Research Council & University of Virginia

Effects of Permeability and Vehicle Speeds on Pore Pressures in Hot-Mix Asphalt Pavements, (02-4020)

Marc Edmond Novak, Bjorn Birgisson, and Michael C. McVay, University of Florida

Runoff Control in Porous Pavements, (02-3476)

Vittorio Ranieri, Polytechnic University of Bari, Italy

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Monday, January 14, 1:30 p.m.-3:15 p.m., Marriott

Traffic Signals and Roundabouts

Martin T. Pietrucha, Pennsylvania State University, presiding

Sponsored by Committee on Traffic Control Devices

Drivers' Understanding of Simultaneous Traffic Signal Indications in Protected Left Turns, (02-2985)

David A. Noyce, University of Massachusetts, Amherst; Kent C. Kacir, Kittelson & Associates, Inc.

Exploring the Robust Signal Optimization Method for Isolated Intersections, (02-2577)

Gang-Len Chang and Ying Luo, University of Maryland

Roundabout Warrants: Proposed Framework for Future Development, (02-4149)

Jeremy R. Chapman and Rahim F. Benekohal, University of Illinois, Urbana-Champaign

Kansas Roundabout Reluctance, (02-2524)

Eugene Robert Russell, Kansas State University; Gregory Luttrell, Southern Illinois University, Edwardsville

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Monday, January 14, 1:30 p.m.-3:15 p.m., Marriott

Alcohol Interlock Devices: New Research Findings

Paul Marques, Pacific Institute, presiding

Sponsored by Committee on Alcohol, Other Drugs, and Transportation

Quebec Alcohol Ignition Interlock Program: Impact on Recidivism and Crashes

Lyne Vezina and Claude Dussault, Societe de l'assurance automobile du Quebec, Canada

Preliminary Evaluation of Swedish Alcohol Interlock Program: Two Years of Good Experience

Bo Bjerre, Swedish National Road Administration

Review of State Ignition Interlock Laws and Administrative Regulations for Potential Legal Barriers to Implementation

Williams Rauch, Westat

Thirty Years Later: Why Aren't There More Interlocks in Service?

TEA-21 and Other Barriers

Robert B. Voas, Pacific Institute for Research and Evaluation

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Monday, January 14, 1:30 p.m.-3:15 p.m., Marriott
Geotechnical Aspects of Design-Build, Part 1 (Part 2, Session 213)

James M. Sheahan, HDR Engineering, Inc., presiding

Sponsored by Committee on Foundations of Bridges and Other Structures

Corps of Engineers Perspective

Matthew T Byrne, U.S. Army Corps of Engineers

Port Authority of New York and New Jersey Perspective

Raymond E. Sandiford, Port Authority of New York and New Jersey

Recommendations from the Private Sector

George J Tamaro, Mueser Rutledge Consulting Engineers

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Monday, January 14, 1:30 p.m.-3:15 p.m., Marriott

Trends and Costs of Motorcycle Crashes

David Thom, Head Protection Research Laboratory, presiding

Sponsored by Committee on Motorcycles and Mopeds

Costs of Injuries Resulting from Motorcycle Crashes: Literature Review

Bruce Lawrence, Pacific Institute for Research and Evaluation

Recent Trends in Fatal Motorcycle Crashes: 1990-1999

Dennis E. Utter and Umesh Shankar, National Highway Traffic Safety Administration

Typology of Motorcycle Crashes: Rider Characteristics, Environmental Factors, and Spatial Factors, (02-2885)

Karl E. Kim, Joseph Boski, and Eric Yukio Yamashita, University of Hawaii, Manoa

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Monday, January 14, 1:30 p.m.-3:15 p.m., Marriott

Technology's Role in Transportation: Perspectives of Chief Executive Officers of Four State Departments of Transportation

Leslie Spencer Fowler, Kansas Department of Transportation, presiding

Sponsored by Committee on Emerging Technology Law

Panel Discussion

William D Anker, Rhode Island Department of Transportation; E. Dean Carlson, Kansas Department of Transportation; John Craig, Nebraska Department of Roads; Mary Peters, Federal Highway Administration

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Monday, January 14, 1:30 p.m.-3:15 p.m., Marriott Track Structure Modeling and Maintenance Planning

Gary A. Carr, ENSCO, Inc., presiding

Sponsored by Committee on Railroad Track Structure System Design and Committee on Railway Maintenance

Performance-Based Track Geometry Inspection and Maintenance

Dingqing Li, Transportation Technology Center, Inc.

Microscopic Modeling of Gage Widening, (02-3218)

Yu-Jiang Zhang and Gary A. Carr, ENSCO, Inc.; Mahmood Fateh, Federal Railroad Administration

Fractal Analysis of Track Geometry Data, (02-2771)

James P. Hyslip, Ernest T. Selig, Inc.

Improved Spiral Geometry for High-Speed Rail and Predicted Vehicle Response, (02-3617)

Louis T. Klauder, Work Soft; Steven M. Chrismer, LTK Engineering Services; John Elkins, RVD Consulting, Inc.

Practical Applications of Risk-Based Ultrasonic Rail Test Scheduling

Joseph W. Palese and Allan M. Zarembski, ZETA-TECH Associates, Inc.

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Monday, January 14, 1:30 p.m.-3:15 p.m., Marriott Service Life Prediction for Reinforced Concrete Structures Exposed to Adverse Environments

Yash Paul Virmani, Federal Highway Administration, presiding

Sponsored by Committee on Corrosion

NCHRP Project on Service Life of Corrosion-Damaged Reinforced Concrete Bridge Superstructure Elements

Ali Akbar Sohangpurwala, Concurr, Inc.

Service Life Prediction and Life-Cycle Cost Methodology for Treatment of Concrete Bridge Components, (02-2139)

Khossrow Babaei, Wilbur Smith Associates

Life-Cycle Costing for Reinforced Concrete Bridge Decks

Neil G. Thompson, Cortest Columbus Technologies

Predicting Service Life for Epoxy-Coated Rebars in Reinforced Concrete

James A. Riemenschneider, 3M Twin Cities Sales Center; Paul Krauss and S. K. Lee, Wiss, Janney, Elstner Associates, Inc.

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Monday, January 14, 1:30 p.m.-3:15 p.m., Marriott

Older Persons: Safety, Travel Behavior, and Driver Screening

Richard A. Marottoli, VA Connecticut, presiding

Sponsored by Committee on Safe Mobility of Older Persons

Older Road Users: Examining the Relationship Between Injuries and Fatalities, (02-4161)

Esther K. Wagner and Cathy Gotschall, National Highway Traffic Safety Administration

Exploring High Driver Death Rates per Vehicle Mile of Travel in Older Drivers: Fragility Versus Excessive Crash Involvement, (02-3838)

Guohua Li, John Hopkins University School of Medicine; Elisa R. Braver, Insurance Institute for Highway Safety; Li-Hui Chen, John Hopkins University

Travel Patterns and Concerns of Suburban Elderly in San Diego County, (02-2112)

Sheila Sarkar, San Diego State University

NHTSA Model Driver Screening and Evaluation Program Research: Maryland Pilot Study, Executive Summary

Loren Staplin, TransAnalytics, LLC

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Monday, January 14, 1:30 p.m.-3:15 p.m., Marriott

Customer-Based Performance in Winter Maintenance

Richard L. Hanneman, Salt Institute, presiding

Sponsored by Committee on Winter Maintenance

Evaluation of Level of Snow Removal Services and Residents' Willingness to Pay in Four Cities, (02-3558)

Fumihiro Hara, Hokkaido Development Engineering Center, Inc., Japan

Economic Evaluation of Various Attributes of Snow Removal by Conjoint Analysis, (02-3483)

Yasuhisa Hayashiyama, Tohoku University, Japan; Shintaro Tanabe, Hokkaido Development Engineering Center, Jpan; Kunie Mori, Hokkaido University, Japan; Hiroyuki Tamaki, Hokkaido Development Bureau, Japan

Economic Evaluation of Banning Studded Tires Because of Environmental Impacts, (02-3473)

Motoki Asano, Hokkaido Development Bureau, Japan; Shintaro Tanabe, Hokkaido Development Engineering Center, Jpan; Fumihiro Hara, Hokkaido Development Engineering Center, Inc., Japan; Shingo Yokoyama, Regional Science Institute, Inc., Japan

Evaluation of Fixed Anti-Icing Spray Technology System, (02-3515)

Brandon L. Ward, New York City Department of Transportation

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Monday, January 14, 1:30 p.m.-3:15 p.m., Marriott

Fiber-Reinforced Plastics in Reinforced Concrete

Charles E. Bakis, The Pennsylvania State University, presiding

Sponsored by Committee on Structural Fiber-Reinforced Plastics

Stress-Rupture Performance of Glass-Fiber-Reinforced Composites, (02-2988)

Mark E. Greenwood, Owens Corning

Performance Evaluation of Fiber-Reinforced-Plastic Reinforced Concrete Bridge, (02-3894)

Danielle K Stone, Andrea Prota, and Antonio Nanni, University of Missouri, Rolla

Concrete Bridge Decks Constructed with Fiber-Reinforced-Plastic Stay-in-Place Forms and Grid Reinforcing, (02-3205)

David A. Dieter, Joshua S. Dietsche, Lawrence C. Bank, Michael G. Oliva, and Jeffrey S. Russell, University of Wisconsin, Madison

American Concrete Institute's Fiber-Reinforced-Plastic Reinforced Concrete Specification

Sami H. Rizkalla, University of North Carolina

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Monday, January 14, 1:30 p.m.-3:15 p.m., Marriott

Accelerated Pavement Testing: Response and Performance

Amy L. Epps, Texas A&M University System, presiding

Sponsored by Committee on Full-Scale/Accelerated Pavement Testing

Measurement of Vertical Compressive Stress Pulse in Flexible Pavements and Its Representation for Dynamic Loading Tests, (02-2376)

Amara Loulizi, Imad L. Al-Qadi, and Samer Lahouar, Virginia Polytechnic Institute and State University; Thomas E. Freeman, Virginia Transportation Research Council

Accelerated Pavement Testing of Drained and Undrained Pavements Under Saturated Base Conditions, (02-3750)

Manuel O. Bejarano and John T. Harvey, University of California, Berkeley

Identification of Pavement Failure Mechanisms at FHWA Accelerated Loading Facility Ultrathin Whitetopping Project, (02-3553)

Robert Otto Rasmussen, B. Frank McCullough, and J. Mauricio Ruiz, The Transtec Group, Inc.; James W. Mack, American Concrete Pavement Association; James A. Sherwood, Federal Highway Administration

Enhancement of Asphalt Pavement Assessment Using Monte Carlo Simulation, (02-2395)

Shuo Li, Indiana Department of Transportation; Yongqi Li, Arizona Department of Transportation; John B. Metcalf, Louisiana State University

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Monday, January 14, 1:30 p.m.-3:15 p.m., Marriott

Safety on Low-Volume Roads

Anthony R. Giancola, National Association of County Engineers, presiding

Sponsored by Committee on Low-Volume Roads

Use of Rumble Strips to Improve Safety on Local Roads

Thomas E. Bryer, Pennsylvania Department of Transportation

Use of Geographic Information Systems to Improve Safety on Local Roads

Duane E. Smith, Iowa State University

Improving Safety on Recreational Low-Volume Roads

Thomas Moore, USDA Forest Service

Road Safety Audits on Local Roads

Eugene M. Wilson, University of Wyoming; Martin E. Lipinski, University of Memphis

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Monday, January 14, 1:30 p.m.-3:15 p.m., Shoreham

Recent Developments in Pavement Management Systems

Thomas J. Kazmierowski, Ministry of Transportation of Ontario, Canada, presiding

Sponsored by Committee on Pavement Management Systems

Multiyear Pavement Repair Scheduling Optimization by Preconstrained Genetic Algorithm, (02-3137)

Joseph N Tack and Y. J. Eddie Chou, University of Toledo

Maryland State Highway Administration's Project Selection Process, (02-2967)

Peter J. Stephanos and Paul Dorsey, Maryland State Highway Administration; Adel Hedfi, Axiom Decision Systems, Inc.

Risk-Based Life-Cycle Cost Analysis for Project-Level Pavement Management, (02-2579)

Jennifer A. Reigle, CGH Pavement Engineering, Inc.; John Zaniewski, West Virginia University

Framework and Strategy for Implementing an Information Technology-Based Pavement Management System, (02-3100)

Yichang (James) Tsai and James S. Lai, Georgia Institute of Technology

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Monday, January 14, 1:30 p.m.-3:15 p.m., Shoreham

Innovative Bridge Design Concepts

Mark L. Reno, Quincy Engineering, Inc.; Paul V. Liles Jr., Georgia Department of Transportation, presiding

Sponsored by Committee on Steel Bridges

Rehabilitation Study of Toutle River Tied-Arch Bridges, (02-2022)

Amy C. Leland, Nathan S. Brown, and John A. Van Lund, Washington State Department of Transportation

Two-Box Girder High-Performance Steel Prototype Bridge Design for Nebraska

Ken Price, J. Muller International

I-95 and Okeechobee Boulevard Interchange, (02-3302)

Gautom Dey, HDR Engineering, Inc.

Investigation of Composite Action in Steel Girder Bridge Superstructures Subjected to Transverse Earthquake Loading, (02-2455)

Lyle Philip Carden, Ahmad M. Itani, and Ian G. Buckle, University of Nevada, Reno

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Monday, January 14, 1:30 p.m.-3:15 p.m., Shoreham

Security in the Nation's Ports and on the Waterways

Jean C. Godwin, American Association of Port Authorities, presiding

Sponsored by Committee on Ports and Channels and Committee on Inland Water Transportation

Panel Discussion

Leonard C. Cross, ARUP Security Consulting; Bethann Rooney, Port Authority of New York and New Jersey; Barry Holliday, U.S. Army Corps of Engineers

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Monday, January 14, 1:30 p.m.-3:15 p.m., Shoreham

Intermodal Freight Along Trade Corridors: Peering into the Future

Paul A. Belella, Booz, Allen & Hamilton, Inc., presiding

Sponsored by Committee on Intermodal Freight Transport and Committee on Intermodal Freight Terminal Design and Operations

Goods Movement and Freight Corridors: Historical Perspective

C. Michael Walton, University of Texas, Austin

Leveraging Technology for Freight Operations over Inland Distribution Networks

John Allen, American Presidents Line

State Regulatory and Infrastructure Initiatives: Freight Movement on the I-35 Corridor

Willam Stone, Missouri Department of Transportation

Public Policy Strategies for Facilitating Freight Flow Along Trade Corridors

Harry B. Caldwell, Federal Highway Administration

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Monday, January 14, 1:30 p.m.-3:15 p.m., Shoreham

Airport Infrastructure Needs for New Aircraft

William A. Fife, DMJM+HARRIS, presiding

Sponsored by Committee on Aircraft/Airport Compatibility and Committee on Airport Terminals and Ground Access

Panel Discussion

Richard J. Louis, Port Authority of New York and New Jersey; John K. Lauber, Airbus Industrie of North America, Inc.; Don Minnis, Air Transport Association of America; Richard F. Marchi, Airports Council International - North America; David J. Nielson, Boeing Commercial Airplane Company

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Monday, January 14, 1:30 p.m.-3:15 p.m., Shoreham

Airport Private Ownership Issues and Strategies

Roger P. Moog, Delaware Valley Regional Planning Commission, presiding

Sponsored by Committee on Intergovernmental Relations in Aviation

Panel Discussion

Bruce F. Mundie, Maryland Aviation Administration; Francis F. Strouse, L. Robert Kimball and Associates; Lawrence J. Krauter, Lehigh Northampton Airport Authority; Roger P. Moog, Delaware Valley Regional Planning Commission

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Monday, January 14, 1:30 p.m.-3:15 p.m., Hilton

Road Ecology--Science and Solutions, Part 1: Roads, Roadsides, and Wildlife (Part 2, Session 229)

Carol D. Cutshall, Wisconsin Department of Transportation, presiding

Sponsored by Committee on Environmental Analysis in Transportation and Committee on Landscape and Environmental Design

Road Systems

Thomas Turrentine, University of California, Davis

Roadsides and Vegetation

Richard T.T. Forman, Harvard University

Wildlife Populations

John Bissonette, Utah State University; Lenore Fahrig, Carleton University, Canada

Mitigation for Wildlife

Anthony P. Clevenger, Parks Canada

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Monday, January 14, 1:30 p.m.-3:15 p.m., Hilton
Transit Operating Agencies on the Front Line in Security

Jennifer Dorn, Federal Transit Administration, presiding

Sponsored by Section on Public Transportation

A roundtable discussion will address transit security operational issues from the urgent perspective required by terrorism and the planning perspective for new facilities, services, and equipment.

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Monday, January 14, 1:30 p.m.-3:15 p.m., Hilton
Use of the Highway Capacity Manual in the Planning Process

Abdul-Rahman Hamad, PBS&J, presiding

Sponsored by Committee on Highway Capacity and Quality of Service

Use of Part IV of the Highway Capacity Manual with Planning Models

Richard G. Dowling, Dowling Associates

Florida Level-of-Service Handbook

Martin Guttenplan, Florida Department of Transportation

Using the Highway Capacity Manual for Annual Monitoring and Traffic Studies in Santa Clara County, California

Carolyn Gonot, Santa Clara County Transportation Agency

Multimodal Arterial and Corridor Planning

Bruce W. Landis, Sprinkle Consulting Inc.

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Monday, January 14, 1:30 p.m.-3:15 p.m., Hilton
International Roundtable--Globalization Turbulence, Part 1: Charting a Vision for the 21st Century (Part 2, Session 233)

John W. Flora, The World Bank, presiding

Sponsored by Committee on International Activities

All registrants at the Annual Meeting are invited to attend this roundtable. A no-host reception will be held on the Terrace Level at 5:30 to provide additional opportunity to interact.

Hidden Costs of Multimodal Transportation in International Trade

Ernst G. Frankel, Michigan Institute of Technology

Accessibility and Mobility in Latin America Within the Context of Globalization

David John Keeling, Western Kentucky University

Implications of Globalization for the Transportation Sector: Environmental Regulations and Mobility of the Poor

Walter B. Hook, Institute for Transportation and Development Policy

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Monday, January 14, 1:30 p.m.-3:15 p.m., Hilton Innovations in Delivery of Transportation Services

Roy Sparrow, New York University, presiding

Sponsored by Committee on Strategic Management

Summary of Papers, Followed by Author Comments

Roy Sparrow, New York University

New Regional Transportation Organizations, (02-4009)

Jonathan L. Gifford and Danilo Pelletiere, George Mason University

Wisconsin's Local Roads and Streets Council: Prototype for Intergovernmental Cooperation and Decision Making, (02-2837)

Mary Forlenza, Chariti Gent, and Scott J. Bush, Wisconsin Department of Transportation

Holistic Change: Case Study of San Jose Department of Transportation, (02-2881)

Wayne Tanda, City of San Jose

Utilizing Transportation Technology to Support Strategic Management Initiatives, (02-3132)

Emily Erin Kuhn and Frank Douma, University of Minnesota

Options for Improving Vehicle Operations in Sub-Saharan Africa: Case Study in Uganda, (02-2218)

Mustapha Benmaamar, Simon David Ellis, and Christian Dunkerley, Transport Research
Laboratory, United Kingdom

Improved Method for Measuring Highway Agency Performance, (02-2341)

John Semmens, Arizona Department of Transportation; Cliff J. Schexnayder, Robert J.
Moreno, and Corey M. Spencer, Arizona State University

Audience Questions & Panel Discussion

Roy Sparrow, New York University

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Monday, January 14, 1:30 p.m.-3:15 p.m., Hilton

Marketing of Managed Lanes

Leslie N. Jacobson, PB Farradyne, Inc., presiding

*Sponsored by Committee on High-Occupancy Vehicle Systems and Committee on Freeway
Operations*

Research in the Fast Lane: Managed Lanes Public Opinion Research

Bruce Brown, PRR, Inc.

What Are Managed Lanes and How Do We Communicate Them to the Public?

Charles Fuhs, Parsons Brinckerhoff, Inc.

Marketing Managed Lanes in Texas

Ginger Daniels, Texas Transportation Institute

New Uses for High-Occupancy-Vehicle Performance Monitoring

Luisa Paiewonsky, Massachusetts Highway Department

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Monday, January 14, 1:30 p.m.-3:15 p.m., Hilton

TRANSIMS, Part 1 (Part 2, Session 235)

Richard Beckman, Los Alamos National Laboratory, presiding

Sponsored by Committee on Transportation Planning Applications

Portland Study Overview and Purpose

Richard Beckman, Los Alamos National Laboratory

Activity Generation

Paula Stretz, Los Alamos National Laboratory

Stabilization

Stephen Eubank, Los Alamos National Laboratory

Mode Choice

James P. Smith, Los Alamos National Laboratory

Emissions

Michael D. Williams, Los Alamos National Laboratory

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Monday, January 14, 1:30 p.m.-3:15 p.m., Hilton

Strategic Information Management for Transportation Executives

Kyung Kyu Lim, Federal Highway Administration, presiding

Sponsored by Committee on Library and Information Science for Transportation

Information Management Strategies: Louisiana Department of Transportation and Development Experience

Kam K. Movassaghi, Louisiana Department of Transportation and Development

Information Management Successes and Challenges in Executive Decision Making

Lawrence D. Dahms, Consultant

Executive Information Management: Tips and Strategy

Jeanne F. Thomas, Michigan Department of Transportation

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Monday, January 14, 1:30 p.m.-3:15 p.m., Hilton

Critical Issues in Information Security: When Does Sharing Data and Information Become a Security Risk?

David R. Fletcher, Geographic Paradigm Computing, Inc., presiding

Sponsored by Committee on Information Systems and Technology and Task Force on Critical Transportation Infrastructure Security

U.S. Department of Transportation Chief Information Officer Perspective

Eugene K. Taylor, Office of the Secretary, U. S. Department of Transportation

Gartner Group Perspective

Edward Fraga, Gartner

FAA Chief Information Officer Perspective

Daniel J. Mehan, Federal Aviation Administration

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Monday, January 14, 1:30 p.m.-3:15 p.m., Hilton

State of the Intelligent Transportation Systems Industry

Richard J. Weiland, Weiland Consulting Company, presiding

Sponsored by Committee on Intelligent Transportation Systems

Panel Discussion

Christine M. Johnson, Federal Highway Administration; Neil D. Schuster, ITS America; Jack Goldstein, Consultant; John C. Horsley, American Association of State Highway and Transportation Officials

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Monday, January 14, 1:30 p.m.-3:15 p.m., Hilton

Integrated Land Use-Transportation Modeling: Design and Application Issues

John Douglas Hunt, University of Calgary, Canada, presiding

Sponsored by Committee on Passenger Travel Demand Forecasting and Committee on Transportation and Land Development

Comparison of Highway and Travel Demand Management Measures Using Integrated Land Use and Transportation Model in the Sacramento Region, (02-3827)

Caroline J. Rodier, University of California, Davis; John E. Abraham, University of Calgary, Canada; Robert A. Johnston, University of California, Davis

Design of Integrated Land Use and Activity-Based Travel Model System, (02-2186)

Paul Waddell, University of Washington; Maren L. Outwater, Cambridge Systematics, Inc.; Chandra R. Bhat, University of Texas, Austin; Larry Blain, Puget Sound Regional Council

Alternative Futures for Transportation and Land Use: Integrated Models Contrasted with Trend-Delphi Methods-- Portland Metro Results, (02-2555)

Sonny David Conder and T. Keith Lawton, Portland Metro

Road Expansion, Urban Growth, and Induced Travel: Path Analysis, (02-2265)

Robert Burke Cervero, University of California, Berkeley

Transportation Investments and Urban Form, (02-2163)

David J. Forkenbrock, University of Iowa

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Monday, January 14, 1:30 p.m.-3:15 p.m., Hilton

FTA/APA Initiatives

Nancy-Ellen Zusman, Federal Transit Administration, presiding

Sponsored by Committee on Transit and Intermodal Transportation Law

Panel Discussion

Joyce Rose, House Committee on Transportation and Infrastructure; Beverly Pheto, House Appropriations Committee; Sarah Kline, Senate Banking; Daniel Duff, American Public Transportation Association; Lynn Sahaj and Harry Saporta, Federal Transit Administration

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Monday, January 14, 1:30 p.m.-3:15 p.m., Hilton

Security Issues in Planning

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Monday, January 14, 1:30 p.m.-3:15 p.m., Hilton

Equity Implications of Congestion Pricing

Jonathan Skolnik, Jack Faucett Associates, presiding

Sponsored by Committee on Transportation Economics

Issues in Defining and Measuring Equity for Transportation Finance

Douglas B. Lee, Volpe National Transportation Systems Center

Making It Equitable: Modeling Pricing in Portland's Traffic Relief Options Study

Bridget Wiegart, Portland Metro

Equity and Fairness Considerations of Pricing: Evidence from Southern California

Genevieve Giuliano, University of Southern California

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Monday, January 14, 2:30 p.m.-5:30 p.m., Marriott

Current Issues in Construction: Pavements, Bridges, and Management (Poster Session)

Sponsored by Committee on Portland Cement Concrete Pavement Construction; Committee on Construction of Bridges and Structures; and Committee on Construction Management

MP-1 Effects of Curing Compound and Monomolecular Film Applications on Vertical Tensile Strength Profile in a Concrete Slab, (02-2829)

Shantala V. Ramaiah, SVR, Inc.; Terry Dossey and B. Frank McCullough, University of Texas, Austin

MP-2 Effect of Curling on As-Constructed Smoothness of Portland Cement Concrete Pavements, (02-3142)

Zahidul Quadir Siddique, Mustaque Hossain, and John Devore, Kansas State University; William H. Parcells, Kansas Department of Transportation

MP-3 Construction and Performance of Ultrathin Whitetopping in Kansas, (02-3811)

Mustaque Hossain and Nicolleta I Dumitru, Kansas State University; John B. Wojakowski, Kansas Department of Transportation

MP-4 Construction of Fiber-Reinforced Plastic Modular Decks for Highway Bridges, (02-3678)

Samer H Petro, West Virginia University

MP-5 Smoothness Provision for Bridge Decks, (02-2553)

Kevin K. McGhee, Virginia Transportation Research Council & University of Virginia

MP-6 Effects of Steam Curing Temperature on Early Prestress Losses in High-Performance Concrete Beams, (02-3087)

Rola L. Idriss, New Mexico State University; Amor Solano, CSR Prestress

MP-7 Constructability Analysis for Asphalt Concrete Pavement Rehabilitation in Urban Corridors, (02-2876)

Eul-Bum Lee, John T. Harvey, and C. William Ibbs, University of California, Berkeley; Jim St. Martin, Southern California Asphalt Pavement Association

MP-8 Evolvement of Contractor's Construction Schedule to Meet Engineer's Satisfaction, (02-3004)

Mohamed-Asem U. Abdul-Malak and Zeina A. Hassanein, American University of Beirut, Lebanon

MP-9 Factors of Importance for Determining Daytime Versus Nighttime Operations in Oregon, (02-3215)

Kimberly D Douglas and Sang-Bin Park, Oregon State University; Kevin J Haas, Oregon Department of Transportation

MP-10 Methodology for Defining Rational and Defensible Highway Occupancy Charges, (02-2051)

Dimitrios Goulias, University of Maryland; Steven Chien, New Jersey Institute of Technology; Shmuel Z. Yahalom, State University of New York Maritime College

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Monday, January 14, 2:30 p.m.-5:30 p.m., Marriott

Geotechnical Engineering in Transportation, Part 1 (Part 2, Session 401) (Poster Session)

Sponsored by Committee on Soils and Rock Instrumentation; Committee on Transportation Earthworks; Committee on Geosynthetics; and Committee on Physicochemical Phenomena in Soils

MP-11 Accelerated Testing Procedures for Evaluating Separation Layer Performance in Open-Graded Base Courses, (02-3651)

Barry J. Dempsey, University of Illinois

MP-13 Laboratory Simulation of Field Compaction Characteristics on Sandy Soils, (02-3164)

Wei-Chou Virgil Ping, Florida A&M University - Florida State University; Zenghai Yang, Florida State University

MP-14 Temperature Monitoring and Compressibility Measurement of a Shredded Tire Road in Manitoba, (02-2872)

Ahmed Shalaby and Riaz Ahmed Khan, University of Manitoba, Canada

MP-15 Standard Deviation Determination in In Situ Compaction-Control Procedure, (02-2104)

Moshe Livneh, Technion - Israel Institute of Technology; Noam Abraham Livneh, Naom Livneh Engineering Ltd., Israel

MP-16 Laboratory Evaluation of Soil Stiffness Gauge, (02-3608)

Peter J. Bosscher and Tuncer B. Edil, University of Wisconsin, Madison

MP-17 Comparison of Moduli Obtained from Soil Stiffness Gauge with Moduli from Other Tests, (02-3610)

Tuncer B. Edil, University of Wisconsin, Madison

MP-18 Prefabricated Vertical Drains for Use in Soil Vapor Extraction Applications, (02-2984)

Omaira M. Collazos and John J. Bowders Jr, University of Missouri, Columbia; Malek Bouazza, Monash University, Australia

MP-19 Mechanisms for Reduction of Heavy Metal Leaching by Natural Chemical Weathering Reactions, (02-3784)

Robert K Carter and Kevin Gardner, University of New Hampshire; Takayuki Shimaoka, Kyushu University, Japan; Kentaro Miyawaki, Fukuoka University, Japan

Monday, January 14, 2:30 p.m.-5:30 p.m., Shoreham

Multimodal Freight Transportation (Poster Session)

Sponsored by Committee on Freight Transportation Planning and Logistics; Committee on Freight Transport Regulation; Committee on Urban Freight Transportation; Task Force on Agricultural Transportation; Committee on Ports and Channels; and Committee on International Trade and Transportation

SP-1 Emerging Trends in Logistics and Their Impact on Freight Transportation Systems: European Perspective, (02-4177)

Ioanna M. Giannouli and Konstantinos G. Zografos, Athens University of Economics and Business, Greece

SP-2 Electronic Marketplaces for Transportation Services: Shipper Considerations, (02-3438)

Iris I-Yin Lin, Hani S. Mahmassani, Patrick Jaillet, and C. Michael Walton, University of Texas, Austin

SP-3 Impact of Information and Communication Technologies on Logistics and Freight Transportation: Example of Vendor-Managed Inventories, (02-2913)

Mouhamad Rabah and Hani S. Mahmassani, University of Texas, Austin

SP-4 Modeling Commercial Vehicle Empty Trips with First-Order Trip Chain Model, (02-2565)

Jose Holguin-Veras and Ellen Thorson, City College of New York

SP-5 Truck Trip Generation at Container Terminals: Results from a Nationwide Survey, (02-2559)

Jose Holguin-Veras and Yamilka Lopez-Genao, City College of New York

SP-6 Making Contact: Developing an Effective Methodology to Survey the Freight Community, (02-2476)

Catherine T. Lawson, State University of New York at Albany; Alan R Kirk, Oregon Department of Transportation; James G. Strathman and Anne-Elizabeth Riis, Portland State University

SP-7 Best Practice Truck Flow Estimation Model for New York City Region, (02-4128)

George F. List, Rensselaer Polytechnic Institute; Vassilios Papayanoulis, Urbitran Associates, Inc.; Laura A. Konieczny and Chanda Durnford, Rensselaer Polytechnic Institute

SP-8 Fractional Split Distribution Model for Statewide Commodity Flow Analysis, (02-2142)

Chandra R. Bhat and Aruna Sivakumar, University of Texas, Austin

SP-9 Methodology for Analyzing National Highway Capacity for Freight Transportation, (02-3028)

Edward S. Fekpe, Battelle Memorial Institute; Mohammed Alam, University of Manitoba, Canada

SP-10 Identification and Forecasting of Key Commodities for Virginia, (02-2768)

James J. Brogan, Cambridge Systematics, Inc.; Stephen C. Birch, Virginia Transportation Research Council; Michael J. Demetsky, University of Virginia

SP-11 Methodology for Analysis of Railroad Potential for Attracting Various Commodities from Highway Transport, (02-2242)

Alberto Mendoza, Cesar Rivera, and Emilio Mayoral, Mexican Transportation Institute

SP-12 Vertical Integration Versus Infrastructure Separation for Railroads: Different Optimums for Different Settings?, (02-2332)

Alex Lu, Massachusetts Institute of Technology

SP-13 Long-Term Availability of Railroad Services for U.S. Agriculture, (02-2224)

Kimberly Vachal and John Bitzan, North Dakota State University

SP-14 Public-Private Partnership in Regional Freight Planning: Implications for the Future, (02-3344)

Hyeon-Shic Shin and Kazuya Kawamura, University of Illinois, Chicago

SP-15 Global Freight Villages: Solution to Urban Freight Dilemma, (02-2896)

Roberta E. Weisbrod, Partnership for Sustainable Ports; Ernest Swiger, Planners Diversified; Gerhardt Muller, U.S. Merchant Marine Academy; Mack Rugg, Camp, Dresser & McKee, Inc.; Mary Kay Murphy, Union County

SP-16 Identification and Classification of Inland Ports, (02-3493)

Sara Jean Leitner, TranSystems Corporation; Rob Harrison, University of Texas, Austin

SP-17 U.S. Gulf Ports and Planning for Latin American Trade: Empirical Analysis, (02-4154)

Jay Jayawardana and Kevin H. Horn, LSU National Ports and Waterways Institute

SP-18 Simulation of Prototype Border Truck Safety Inspection Facilities in Texas, (02-3437)

Jose Weissmann, University of Texas, San Antonio; Angela J. Weissmann, TransAnalysis Engineers and Planners

SP-19 E-Business Impacts for Urban Freight: Results from an Australian Study, (02-3350)

Leorey O. Marquez and Nariida C. Smith, CSIRO Building Construction and Engineering, Australia; Luis Ferreira, Queensland University of Technology, Australia

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Monday, January 14, 2:30 p.m.-5:30 p.m., Shoreham

Aviation Economic and Environmental Issues (Poster Session)

Sponsored by Committee on Aviation Economics and Forecasting and Task Force on Environmental Impacts of Aviation

SP-20 Developing Optimum Income-Creating Model for Profit Making in the Air Transportation System, (02-2281)

Mahmoud P. Saffarzadeh, Ministry of Roads and Transportation, Iran

SP-21 Egypt's Aviation System: Econometric Framework with Forecast Outlook, (02-3781)

Dipasis Bhadra, MITRE Corporation

SP-22 Fair Trade and Deregulation Policy Conflicts and Welfare Issues Between Economic and Aviation Authorities in Taiwan, (02-4035)

Zheng-Yi Shon, National Cheng Kung University, Taiwan

SP-23 Restricting the Use of Reverse Thrust as Emissions Reduction Strategy, (02-3306)

Colin C. Rice, The MITRE Corporation

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Monday, January 14, 2:30 p.m.-5:30 p.m., Hilton

Transit Planning and Paratransit Research (Poster Session)

Sponsored by Committee on Paratransit; Committee on Public Transportation Marketing and Fare Policy; and Committee on Public Transportation Planning and Development

HP-1 Urban Transport Strategy for Colombo, Sri Lanka, (02-4106)

Slobodan Mitric, The World Bank

HP-2 Multilevel Network Optimization for Public Transport Networks, (02-2493)

R. Van Nes, Delft University of Technology, Netherlands

HP-3 Transit Path Choice Models Using Revealed Preference and Stated Preference Data, (02-3052)

Soi-Hoi Michael Lam and Feng Xie, Nanyang Technological University, Singapore

HP-4 Competitive Multimodal Transit Services with Heterogeneous Travelers, (02-2209)

Hong K. Lo, Chun Wing Yip, and Quantin K.H. Wan, Hong Kong University of Science and Technology, China

HP-5 Seeking Public Input in the ADA Paratransit Eligibility Process, (02-3143)

Carol R. Denson, University of Delaware

HP-6 Tennessee Vans: Accomplishments of Statewide Van Transportation Service Delivery System, (02-2772)

Fred Wegmann and Theodore Newsom, University of Tennessee, Knoxville

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Monday, January 14, 2:30 p.m.-5:30 p.m., Hilton

Transit Management and Performance: Tools for Analysis (Poster Session)

Sponsored by Committee on Transit Management and Performance

HP-7 Framework of Regional Transit Asset Management System, (02-2906)

Supin Li Yoder, Wilbur Smith Associates; John DeLaurentiis and Richard J. Bacigalupo, Regional Transportation Authority

HP-8 Projecting Transit Capital Renewal Requirements Using Ad Hoc Forecasting Model, (02-2851)

Matthew Simon Bieschke, AECOM Consulting Transportation Group; Dale Fousel and Joel C Goldberg, San Francisco Bay Area Rapid Transit District; Robert L Peskin, AECOM Consulting Transportation Group

HP-9 Decomposing Changes in Chicago's Transit Finances, 1948-1997, (02-2050)

Ian Savage, Northwestern University

HP-10 Integrated National Transit Database Analysis System, (02-3605)

Albert C. Gan, Florida International University; Ike Ubaka, Florida Department of Transportation; Fang Zhao, Florida International University

Transit Economic Impact Studies: The One-Step Approach, (02-3649)

Xuehao Chu and Steven E. Polzin, University of South Florida

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Monday, January 14, 2:30 p.m.-5:30 p.m., Hilton

Marketing and Fare Policy Research (Poster Session)

Sponsored by Committee on Public Transportation Marketing and Fare Policy

HP-11 Testing Customer Acceptance of SmartCards at the Chicago Transit Authority, (02-3203)

Peter J. Foote and Darwin G. Stuart, Chicago Transit Authority

HP-12 Transit Web-Weaving via Geographic Information System, (02-3880)

Shirley Hsiao, Orange County Transportation Authority; Hong Chou, GeoSpatial Technologies, Inc.

HP-13 Bus Patronage in Great Britain: Econometric Analysis, (02-2257)

Joyce Mary Dargay and Mark Hanly, University College London, United Kingdom

HP-14 Schedule-Based Path Finding Algorithms for Transit Trip Planning Systems, (02-3742)

Ruihong Huang and Zhong-Ren Peng, University of Wisconsin, Milwaukee

Monday, January 14, 2:30 p.m.-5:30 p.m., Hilton

Transportation Energy, Air Quality, and Fuels (Poster Session)

Sponsored by Committee on Transportation Energy; Committee on Transportation and Air Quality; and Committee on Alternative Transportation Fuels

HP-15 Greenhouse Gas Emissions in the Transport Sector, 2000-2020: Case Study for Chile, (02-3887)

Raul Enrique O'Ryan, Universidad de Chile; Thomas Turrentine and Daniel Sperling, University of California, Davis

HP-16 Hybridizing with Engine Downsizing, (02-4095)

Danilo J. Santini, Anant Ray Vyas, John L. Anderson, Feng An, and Steven Plotkin, Argonne National Laboratory

HP-17 Energy Efficiency Strategies for Freight Trucking: Potential Impact on Fuel Use and Greenhouse Gas Emissions, (02-3877)

Jeffrey Ang-Olson and William L. Schroeer, ICF Consulting

HP-18 Diesel Engines: Problem or Solution?, (02-3641)

Christie J. Brodrick, Daniel Sperling, and H. A. Dwyer, University of California, Davis

HP-19 Expected Disruption and Flexibility of Vehicle Users to Fuel Shortages, (02-3475)

Robert B. Noland and John W. Polak, Imperial College of Science Technology and Medicine, United Kingdom; Michael GH Bell and Neil Thorpe, University of Newcastle Upon Tyne, United Kingdom

HP-20 Multivariate Analysis of Carbon Emissions from Urban Transport, (02-3406)

Deborah D. Salon, University of California, Davis

HP-21 Using Locality-Specific Fleet Distributions in Emissions Inventories: Current Practice, Problems, and Alternatives, (02-3334)

Jessica L. Granell, Randall Guensler, and William H Bachman, Georgia Institute of Technology

HP-22 Efficient Vehicles Versus Efficient Transportation: Comprehensive Comparison of Fuel Efficiency Standards and Transportation Demand Management, (02-3330)

Todd A. Litman, Victoria Transport Policy Institute, Canada

HP-23 Transport in Delhi, India: Problems and Opportunities, (02-2663)

Ranjan Kumar Bose, Tata Energy Research Institute, India; Daniel Sperling, University of California, Davis

HP-24 Transportation Greenhouse Gas Scenarios for South Africa, (02-2593)

Jolanda Pretorius Prozzi, Cambridge Systematics, Inc.; Clifford Naude, No Organization; Daniel Sperling and Mark A. DeLucchi, University of California, Davis

HP-25 Assessment of Operational Benefits of Electronic Toll Collection in Baltimore Metropolitan Area, (02-3815)

Anthony A. Saka and Dennis Kwesi Agboh, Morgan State University

HP-26 Comparing Methodologies to Assess Transportation and Air Quality Impacts of Brownfields and Infill Development, (02-3951)

Geoffrey Anderson, Environmental Protection Agency; William L. Schroeer, ICF Consulting

HP-27 Freight Activity and Air Quality Impacts in Selected NAFTA Trade Corridors, (02-3797)

Jeffrey Ang-Olson and William A. Cowart, ICF Consulting

HP-28 COMMUTER Model: New Tool for Estimating Air Quality and Congestion Relief Benefits of Commuter Choice Programs, (02-3646)

Erik William Herzog and John Hall, Environmental Protection Agency; Thomas Carlson, Searra Research, Inc.

HP-29 Alternative Methodology for Collecting Local Vehicle Start Information for Use in MOBILE6, (02-3612)

Jerry D. Everett and Ian Sacs, University of Tennessee, Knoxville

HP-30 Soak Distribution Inputs to Mobile Source Emissions Modeling: Measurement and Transferability, (02-3593)

Mohan Muralidhar Venigalla, George Mason University; Don A. Pickrell, U.S. Department of Transportation

HP-31 Comprehensive Case-by-Case Study on Environmental Effects of Various Modes of Passenger Transportation, (02-3465)

Manfred F. Wacker and Volker Schmid, University of Stuttgart, Germany

HP-32 Statistical Microscale Emission Models Incorporating Acceleration and Deceleration, (02-3308)

Hualiang Teng, Polytechnic University of New York; Lei Yu, Texas Southern University; Yi Qi, Polytechnic University of New York

HP-33 Effect of On-Road Loads on Gaseous Emissions from a Modern Heavy-Duty Diesel Truck, (02-3297)

Christie J. Brodrick, Emilio Laca, and H. A. Dwyer, University of California, Davis

HP-34 Modeling Vehicle Age Distribution for Air Quality Analysis, (02-2611)

Lei Yu, Fengxiang Qiao, Guangchun Li, and Xin Wang, Texas Southern University

HP-35 AirCred: Rationale and Structure of Calculation Tool for Estimating Air Pollution Reduction Credits for Alternative Fuel Vehicles, (02-2817)

Christopher L. Saricks, Argonne National Laboratory

HP-36 Allocating Responsibility for Mobile Source Emissions, (02-3020)

Laurence R. Rilett and Josias Zietsman, Texas A&M University System

HP-37 Effect of County-Level Income on Vehicle Age Distribution and Emissions, (02-2982)

Terry L Miller, Wayne T. Davis, Gregory D Reed, Anna Tang, and Prakash Doraiswamy, University of Tennessee

HP-38 Size Distribution Measurements of Particulate Matter in Road Tunnels, (02-2939)

Peter Sturm, Technical University Graz, Austria; Bernhard Lechner, Johannes Rodler, Michael Bacher, Dieter Engler, and Stefan Hausberger, Technical University Graz

HP-39 Analysis of Effects of French Vehicle Inspection Program and Grant for Scrappage on Household Vehicle Transaction, (02-2693)

Toshiyuki Yamamoto, Kyoto University, Japan; Jean-Loup Madre, INRETS, France; Ryuichi Kitamura, Kyoto University, Japan

HP-40 Stochastic Framework for Estimating Unpaved Road Vehicle Miles of Travel for PM10 Mobile Emissions Inventories, (02-2689)

Jennifer E. Morey, Debbie A. Niemeier, and Thirayoot Limanond, University of California, Davis

HP-41 Air Pollution from Matching Water- and Land-Based Travel: Implications for Passenger Ferries in San Francisco Bay, (02-2651)

Alex Farrell, Carnegie-Mellon University; Deborah H Redman, Redman Consulting; James J. Corbett, Carnegie-Mellon University; James J. Winebrake, James Madison University

HP-42 Using Emissions-Optimized Trip Assignment Algorithm to Explore Changes in Vehicle Emissions, (02-2260)

Debbie A. Niemeier and Satoshi Sugawara, University of California, Davis

HP-43 Identifying Trip-Based Explanatory Variables for Estimating Hot-Stabilized Light-Duty Gasoline Vehicle Fuel Consumption and Emission Rates, (02-2144)

Hesham Ahmed Rakha, Virginia Polytechnic Institute and State University; Yonglian Ding, Ricondo and Associates

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Monday, January 14, 3:45 p.m.-5:30 p.m., Marriott

Evaluation of Asphalt Mixture Fatigue Resistance

Pedro Romero, University of Utah, presiding

Sponsored by Committee on Characteristics of Bituminous Paving Mixtures To Meet Structural Requirements

Simple Performance Test for Fatigue Cracking of Asphalt Concrete Based on Viscoelastic Analysis of Indirect Tensile Test and Its Validation Using WesTrack Asphalt Mixtures, (02-2924)

Haifang Wen and Y. Richard Kim, North Carolina State University

Evaluation of Fatigue Healing Effect of Asphalt Concrete by Pseudostiffness, (02-2832)

Zhiming Si, Texas Transportation Institute; Dallas N. Little and Robert L. Lytton, Texas A&M University System

Prediction of Fatigue Lives of Asphalt-Aggregate Mixtures Using Viscoelastic Material Properties, (02-2692)

Hyun Jong Lee, Sejong University, Korea; Han-Sung Roh, Korea Highway Corporation

Field and Laboratory Characterization of Asphalt Mixes for Design of Flexible Pavements, (02-2639)

Jonathan Edward Crince and Gilbert Y. Baladi, Michigan State University

210

Monday, January 14, 3:45 p.m.-5:30 p.m., Marriott

Roadway Lighting

Balu Ananthanarayanan, Wisconsin Department of Transportation, presiding

Sponsored by Committee on Visibility

Safety Effectiveness of Lighting

James A. Havard, Consultant

Federal Highway Administration and American Association of State Highway and Transportation Officials International Scan on Roadway Lighting

Patrick Hasson, Federal Highway Administration

Field Study of Lighting for Pedestrian Crosswalks

Paul Lutkevich, Parsons Brinckerhoff, Inc.

Trends and Issues in Roadway Lighting

Ian Lewin, Lighting Sciences Inc.

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Monday, January 14, 3:45 p.m.-5:30 p.m., Marriott

Transportation and Emergency Services: September 11th and Beyond

Daniel H. Baxter, PB Farradyne, Inc., presiding

Sponsored by Committee on Freeway Operations

Regional Coordination in New York-New Jersey-Connecticut Area on September 11, 2001

Sanjay Patel, TRANSCOM

Emergency Vulnerability Assessment of U.S. National Major Highway Network System

Lee D. Han, University of Tennessee, Knoxville

Panel Discussion

Charles T. Hoffman, National Telecommunications and Information Administration; William W. Stoeckert, Connecticut Department of Transportation

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Monday, January 14, 3:45 p.m.-5:30 p.m., Marriott

Motorist Understanding of Freeway Signs and Work Zone Information

Gary B. Thomas, Texas Transportation Institute, presiding

Sponsored by Committee on User Information Systems

Flashing Messages, Flashing Lines, and Alternating Single Lines on Changeable Message Signs for Freeway Operations, (02-3054)

Conrad L. Dudek, Texas A&M University System; Gerald L. Ullman, Texas Transportation Institute

Drivers' Understanding of Overhead Freeway Exit Guide Signs: Evaluation of Alternatives Using an Advanced Fixed Base Driving Simulator, (02-2618)

Arup Dutta, Rick Carpenter, David A. Noyce, Susan A. Duffy, and Donald Lloyd Fisher, University of Massachusetts, Amherst

Evaluation of Motorist Public's Acceptance of Real-Time Travel Time Prediction System in Freeway Construction Work Zone, (02-2372)

Helmut T. Zwahlen and Andrew C. Russ, Ohio University

Evaluation of Accuracy of Real-Time Travel Time Prediction System in Freeway Construction Work Zone, (02-2371)

Helmut T. Zwahlen and Andrew C. Russ, Ohio University

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Monday, January 14, 3:45 p.m.-5:30 p.m., Marriott

Geotechnical Aspects of Design-Build, Part 2 (Part 1, Session 171)

Thomas W. Pelnik III, Virginia Department of Transportation, presiding

Sponsored by Committee on Foundations of Bridges and Other Structures

Geotechnical Issues with Large Design-Build Projects

James B. Higbee, Utah Department of Transportation

Development of Virginia Department of Transportation's Design-Build Procedures: Practical Design and Construction Considerations

Andrew J. Mergenmeier, Virginia Department of Transportation

Consultant's Perspective

James M. Sheahan, HDR Engineering, Inc.

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Monday, January 14, 3:45 p.m.-5:30 p.m., Marriott

Motorcycles as Transportation

David Thom, Head Protection Research Laboratory, presiding

Sponsored by Committee on Motorcycles and Mopeds

Motorcycles Treated as Full Mode of Transportation, (02-2959)

Marcus Wigan, Oxford Systematics, Australia

Motor Vehicle Insurance in the United States: 1998-1999 Snapshot with Emphasis on Motorcycle Coverage

Ted Miller, Pacific Institute for Research and Evaluation

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Monday, January 14, 3:45 p.m.-5:30 p.m., Marriott

Corrosion and Monitoring Devices for Reinforced Concrete Structures

Yash Paul Virmani, Federal Highway Administration, presiding

Sponsored by Committee on Corrosion

Corrosion Monitoring of Steel Reinforced Concrete Structures

Karel Hladky and Kevin G. Davies, BGB Projects Ltd., United Kingdom; John Philip Broomfield, Broomfield Consultants, United Kingdom

Corrosion Monitoring Systems for Highway Bridges

Michael Raupach, Institut fuer Bauforschung, Germany

Embeddable Corrosion Monitoring Instrument for Reinforced Concrete

Robert Ross, Virginia Technologies, Inc.; Robert G. Kelly, University of Virginia

Corrosion Monitoring Devices for Reinforced Concrete Structures

Steven F. Daily and Moavin Islam, Corpro Companies, Inc.

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Monday, January 14, 3:45 p.m.-5:30 p.m., Marriott

Design and Construction of Nonconventional Track

Hugh J. Fuller, DMJM + Harris; William H. Moorhead, TRAMMCO, LLC, presiding

Sponsored by Committee on Railroad Track Structure System Design

Slab Track Design

David Bilow, Portland Cement Association

Direct Fixation Systems

William R. Harper, L. B. Foster Company

Performance Testing of Ballasted Ladder Track at Transportation Technology Center, Inc., and Floating Ladder Track in Japan, (02-3370)

Hajime Wakui, Nobuyuki Matsumoto, and Kiyoshi Asanuma, Railway Technical Research Institute, Japan; David M. Read and Kenneth J. Laine, Transportation Technology Center, Inc.

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Monday, January 14, 3:45 p.m.-5:30 p.m., Marriott

Innovative Procurement for Technology

Eric M. Kerness, New York State Department of Transportation; Leslie Spencer Fowler, Kansas Department of Transportation, presiding

Sponsored by Committee on Emerging Technology Law and Committee on Contract Law

Intelligent Transportation System Procurement Methodology

Erin Ehlinger, Parsons Brinckerhoff Farradyne, Inc.

Legal Tips and Tools for Successful Technology Procurement

Andrew D. Sussman, Buchanan Ingersoll

Maryland's Experience with Innovative Procurement for Technology

Michael J. Zezeski, Maryland State Highway Administration

218

Monday, January 14, 3:45 p.m.-5:30 p.m., Marriott

Older Person Mobility: National and International Perspectives

Christopher G.B. Mitchell, Institute of Highways and Transportation, United Kingdom, presiding

Sponsored by Committee on Safe Mobility of Older Persons

Aging and Transport: Mobility Needs and Safety Issues

Martine Micozzi, Organization for Economic Cooperation and Development, France

European Council of Ministers of Transport Report on Older Person Mobility

To Be Determined, No Organization

Transportation in an Aging Society: Decade of Experience

Richard A. Marottoli, VA Connecticut

National Agenda for Older Person Safety and Mobility

Donald Trilling, U.S. Department of Transportation; John W. Eberhard, National Highway Traffic Safety Administration

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Monday, January 14, 3:45 p.m.-5:30 p.m., Marriott

New Training and Technologies in Winter Maintenance

Wilfrid A. Nixon, University of Iowa, presiding

Sponsored by Committee on Winter Maintenance

Extraction of Slipperiness Component from Weather and Traffic Data for Winter Maintenance Operations by Means of Artificial Intelligence Technique, (02-2660)

Takashi Nakatsuji, Hokkaido University, Japan; Naoki Hamada, Nishimatsu General Construction Corporation, Japan; Akira Kawamura, Kitami Institute of Technology, Japan

Portable Method to Determine Chloride Concentration on Roadway Pavements, (02-3366)

Jianhui Luo, Norman Washington Garrick, Nikolaos P. Nikolaidis, and Bryan Boulanger, University of Connecticut

Application of Jetting Technology to Pavement Deicing, (02-3556)

David G. Taggart and Milton Huston, University of Rhode Island

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Monday, January 14, 3:45 p.m.-5:30 p.m., Marriott

Utilization of Subsurface Drainage for Mitigation of Highway Runoff Constituents

Patrick X. Collings, Advanced Drainage Systems, Inc., presiding

Sponsored by Committee on Subsurface Drainage; Committee on Physicochemical Phenomena in Soils; and Committee on Hydrology, Hydraulics, and Water Quality

Field Testing of Bioretention Areas and Subsurface Vault Structures for Stormwater Management, (02-2391)

Shaw L. Yu, Monika D. Stopinsky, and Jenny Xiaoyue Zhen, Virginia Transportation Research Council & University of Virginia

Using HYDRUS2D as an Innovative Tool to Study Water Movement in Pavement Systems, (02-3702)

Defne Senem Apul, Yannick Mercier, Kevin Gardner, and T. Taylor Eighmy, University of New Hampshire; Ruth L. Roberson, Minnesota Department of Transportation

Interstate Highway Stormwater Treatment Through Partial Exfiltration, (02-3482)

John J. Sansalone, Louisiana State University

Mitigating Highway Runoff Constituents via Wetland, (02-3734)

Gayle F. Mitchell, Ohio University; Christopher Hunt, Ohio Environmental Protection Agency; Yuming Su, Ohio University

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Monday, January 14, 3:45 p.m.-5:30 p.m., Marriott

Reflection Cracking Mitigation Techniques

Thomas M. Hearne Jr, North Carolina Department of Transportation, presiding

Sponsored by Committee on Pavement Rehabilitation and Committee on Geosynthetics

Laboratory Study of Resistance of Bituminous Overlays to Reflective Cracking, (02-2201)

Amanda Gibney, University College Dublin, Ireland; Gearoid Lohan, Irish Shell; Vivian Moore, SIAC Construction Ltd., Ireland

Steel Reinforcing Netting Mechanism to Abate Reflective Cracking in Asphalt Concrete Overlays, (02-2615)

Imad L. Al-Qadi and Mostafa A. Elseifi, Virginia Polytechnic Institute and State University; Thomas E. Freeman, Virginia Transportation Research Council

Impact of Geosynthetic Placement Location on Viscoelastic Responses of Reinforced Flexible Pavements, (02-2414)

Dong-Yeob Park, Hee-Ku Lee, Sik Youn In, and Young-Chan Suh, Hanyang University, Korea

Development and Performance of Interlayer Stress Absorbing Composite in Asphalt Concrete Overlays, (02-3111)

Barry J. Dempsey, University of Illinois

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Monday, January 14, 3:45 p.m.-5:30 p.m., Marriott

Chemical and Mechanical Stabilization

Khaled Sobhan, New Mexico State University, presiding

Sponsored by Committee on Chemical and Mechanical Stabilization

Liquid Soil Stabilizers: Measured Effects on Engineering Properties of Clay, (02-3244)

Alan F. Rauch, Jacqueline S. Harmon, Lynn E. Katz, and Howard M Liljestrang, University of Texas, Austin

Feasibility of Geosynthetic Inclusion for Reducing Swelling of Expansive Soils, (02-3423)

Mark Vessely, Church and Associates, Inc.; Jonathan T. H. Wu, University of Colorado, Denver

Stabilizing Fine-Grained Soils by Phosphate Electrogrouting, (02-3559)

Thomas C. Sheahan and Akram N. Alshawabkeh, Northeastern University

Nontraditional Stabilization of Silty Sand, (02-3756)

Rosa L. Santoni, Jeb Tingle, and Steve L. Webster, U.S. Army Corps of Engineers

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Monday, January 14, 3:45 p.m.-5:30 p.m., Shoreham

Pavement Management System Analysis for Programming Pavement Maintenance and Preservation Activities

Doyt Y. Bolling, Utah State University, presiding

Sponsored by Committee on Pavement Management Systems

Condition-Based Method for Programming Road Infrastructure Maintenance, (02-3901)

Henry Rupiny Kerali and Haralampos Evdorides, University of Birmingham, United Kingdom

Development of Roughness Thresholds for Preventive Maintenance Action, (02-2754)

Doseung Lee, Karim Chatti, and Gilbert Y. Baladi, Michigan State University

Use of Pavement Management System Distress and Ride Quality Data to Determine Roughness Thresholds for Preventive Maintenance by Smoothing Action, (02-4039)

Doseung Lee, Karim Chatti, and Gilbert Y. Baladi, Michigan State University

Pavement Maintenance Programming Using Stochastic Simulation-Based Genetic Algorithm Approach, (02-2378)

Piya Chootinan and Anthony Chen, Utah State University

Optimization of Pavement Preservation Programming Using Shuffled Complex Evolution Analysis, (02-4041)

Charles Nunoo and Sylvan C. Jolibois, Florida International University; Eugene Agyei, St. John's River Water Management District

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Monday, January 14, 3:45 p.m.-5:30 p.m., Shoreham

Suspension Bridge Cable Systems

John M. Kulicki, Modjeski & Masters, Inc.; Jackson L. Durkee, , presiding

Sponsored by Committee on Steel Bridges

Advantages and Limitations of Preformed Parallel Wire Strand Cables and Case Study Comparing Construction of Aerial Spun and PPWS Cable, (02-2931)

John Justin Moran, Dorman Long Technology, United Kingdom; Simon Richard Hornby, Cleveland Bridge, United Kingdom

Effects of Broken Wires and Friction on Capacity of Suspension Bridge Cables

William J. Moreau, New York State Bridge Authority

George Washington Bridge Main Cable and Suspender Rope Assessment Program

Joseph M. Englot and Peter L. Rinaldi, Port Authority of New York and New Jersey

Update on NCHRP Project 10-57, Structural Safety Evaluation Guidelines for Suspension Bridge Parallel-Wire Cables

Ron Mayrbaur, Weidlinger Associates

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Monday, January 14, 3:45 p.m.-5:30 p.m., Shoreham

Security within the Nation's Aviation System

Saleh A. Mumayiz, The MITRE Corporation, presiding

Sponsored by Task Force on Critical Transportation Infrastructure Security and Committee on Airfield and Airspace Capacity and Delay

Airport Operator's and Manager's Perspective

James A. Wilding, Metropolitan Washington Airports Authority

U.S. Department of Transportation Security Perspective

James Underwood, U.S. Department of Transportation

Industry Versus Regulatory Perspective

Paul E. Busick, Federal Aviation Administration

Legislation Versus Implementation Perspective

Jalal Haidar, Aerospace Services International, Inc.

Airport Design Perspective

Anthony Vacchione, Skidmore, Owings & Merrill Architects

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Monday, January 14, 3:45 p.m.-5:30 p.m., Shoreham

Interface of Strategic Planning Among State Departments of Transportation, Metropolitan Planning Organizations, and Railroad Industry

Dennis Coffey, HNTB Corporation, presiding

Sponsored by Committee on Local and Regional Rail Freight Transport

Each speaker will be given 15 minutes to make a presentation and the rest of the time is reserved for discussion and Q&A.

Coordinating State Transportation Strategic Plans with Plans of Class 1, Regional, and Shortline Railroads

John E. Brown, Pennsylvania Department of Transportation

Virginia State Rail Planning and Programs

George Conner, Virginia Department of Rail and Public Transportation

Case Study: Railroad and State Cooperation in Elimination or Improvement of Grade Crossings

Gary Landrio, Stone Consulting & Design

Using Implications of Rail Abandonments as Justification for State Rail Program Investments

Kenneth Uznanski, Washington State Department of Transportation

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Monday, January 14, 3:45 p.m.-5:30 p.m., Shoreham

Critical Infrastructure Protection: A National Priority

Sponsored by Task Force on Critical Transportation Infrastructure Security

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Monday, January 14, 3:45 p.m.-5:30 p.m., Shoreham

Airport Improvement Program: Block Grant Impacts

Linda Howard, Texas Department of Transportation, presiding

Sponsored by Committee on Intergovernmental Relations in Aviation

Panel Discussion

Wendy S. Smith, New Jersey Department of Transportation; Brian Gearhart, Pennsylvania Department of Transportation; Lori P. Lehnerd, National Association of State Aviation Officials

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Monday, January 14, 3:45 p.m.-5:30 p.m., Hilton

Road Ecology--Science and Solutions, Part 2: Water, Landscape, and Transportation (Part 1, Session 187)

Carol D. Cutshall, Wisconsin Department of Transportation, presiding

Sponsored by Committee on Environmental Analysis in Transportation and Committee on Landscape and Environmental Design

Water, Sediment, Chemical, and Aquatic Ecosystems

Thomas C. Winter, U.S. Geological Survey; Julia A. Jones, Oregon State University; Robert France, Harvard University; Charles Goldman, University of California, Davis

Road Systems Interacting with the Land

Frederick J. Swanson, USDA Forest Service; Virginia H. Dale, Oak Ridge National Laboratory; Richard T.T. Forman, Harvard University

Vehicles and Transportation Planning

Kevin E. Heanue, Consultant

Road Ecology, Transportation, and Policy

Daniel Sperling, University of California, Davis

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Monday, January 14, 3:45 p.m.-5:30 p.m., Hilton

Transit Infrastructure Design-Build: East Meets West

Joel Washington, Federal Transit Administration, presiding

Sponsored by Section on Public Transportation

Design-build planning and construction techniques may offer significant benefits. This session will explore recent international experience and potential applications.

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Monday, January 14, 3:45 p.m.-5:30 p.m., Hilton

Role of High-Occupancy-Vehicle Facilities and Commuter Bus Operations in Response to September 11 Attack on Lower Manhattan

David Schumacher, San Diego Metropolitan Transit Development Board, presiding

Sponsored by Committee on High-Occupancy Vehicle Systems and Committee on Bus Transit Systems

Actions to Improve Bus Operations in Lower Manhattan Immediately After the Attack

Andrew Hollander, New York City Department of Transportation

Use of Existing and New High-Occupancy-Vehicle Lanes for Emergency Vehicles and Buses

Edward Mark, New York State Department of Transportation

Impact on Commuter Bus Service Operated by MTA New York City Transit

Paul Gawkowski, New York City Transit

Impact of HOV 2+ Policy for Manhattan and Interim Mobility Plans for Lower Manhattan

Charles Ukegbu, New York City Department of Transportation

Interim Mobility Plans for I-278 Corridor Including Enhanced Transportation Demand Management Services

Fred Libove, New York State Department of Transportation

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Monday, January 14, 3:45 p.m.-5:30 p.m., Hilton

International Roundtable--Globalization Turbulence, Part 2: Is Transport Prepared? (Part 1, Session 190)

James B. Healy, , presiding

Sponsored by Committee on International Activities

The advances in communications and transport of the 20th Century have facilitated the phenomenon of globalization. The spectacular growth in trade, travel and tourism, in particular, was made possible because of the greater availability of transport facilities and services. By better bridging distance and time, telecommunications and transport have become integral, indeed critical, to the economy that has evolved worldwide. The demands placed upon transport by this globalization economy have often exceeded its optimal existent operational capacity, including trained workforce and proper infrastructure.

Security and safety remain in the forefront, as civil transport directly faces the new century's violent beginnings. Preparing, planning, equipping, financing, staffing, managing and operating transport systems and services in the next stage of globalization present numerous challenges in moving people and cargo around the world in the 21st Century. Sustaining transport, correctly positioning it, and introducing innovation to meet far more than just the economic demands of globalization, will require leadership within the field of transport and coordination with decision-makers of other key sectors. Is transport prepared?

All registrants at the Annual Meeting are invited to attend this roundtable. A no-host reception will be held on the Terrace level at 5:30 p.m. to provide additional opportunity to interact

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Monday, January 14, 3:45 p.m.-5:30 p.m., Hilton

Using Technology to Manage the Administrative Record for Complex Projects: The Good, the Bad, and the Ugly

Helen H. Mountford, Federal Highway Administration, presiding

Sponsored by Committee on Environmental Issues in Transportation Law

Panel Discussion

Margaret (Peggy) N. Strand, Venable, Baetjer, Howard & Civiletti; Lowell Rothschild and Kelly Kruse, Oppenheimer, Wolff, & Donnelly; Vincent DeWitte, U. S. Department of Agriculture

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Monday, January 14, 3:45 p.m.-5:30 p.m., Hilton **Strategies That Work: Effectively Linking Strategic Planning with Management Functions**

Hyun A. Park, Cambridge Systematics, Inc., presiding

Sponsored by Committee on Strategic Management

NCHRP Scan on Strategic Planning

Theodore H. Poister, Georgia State University

Managing the Strategic Plan with Measures

Bradley L. Mallory, Pennsylvania Department of Transportation

Effective Delivery: Getting Results

Pete K. Rahn, New Mexico State Highway and Transportation Department

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Monday, January 14, 3:45 p.m.-5:30 p.m., Hilton **TRANSIMS, Part 2 (Part 1, Session 193)**

Richard Beckman, Los Alamos National Laboratory, presiding

Sponsored by Committee on Transportation Planning Applications

Study Validation

T. Keith Lawton, Portland Metro

TRANSIMS-DOT Status

Mike Bridges, PricewaterhouseCoopers

236

Monday, January 14, 3:45 p.m.-5:30 p.m., Hilton **Information for National and State Policy Needs**

Kenneth J. Leonard, Wisconsin Department of Transportation, presiding

Sponsored by Committee on National Transportation Data Requirements and Programs

Canadian Policies and Data Needs: Report from Technical Director for Canadian Transportation Review Commission

John James Lawson, Transport Canada

View of National Policy Data Needs

Emil Frankel, U.S. Department of Transportation

State View of National and State Policy Needs: AASHTO Bottom Line Working Group

Nancy Ross, New York State Department of Transportation

Summary Comments

Alan E. Pisarski, Consultant

237

Monday, January 14, 3:45 p.m.-5:30 p.m., Hilton

Enhancing the Value of Data Programs

Ronald W. Tweedie, New York Department of Transportation, presiding

Sponsored by Committee on Statewide Transportation Data and Information Systems

Overview of Peer Exchange on Enhancing the Value of Data Programs

James Hall, ERES Consultants, Inc.

Balancing Cost Data Collection with Value

Kim Hajek, Texas Department of Transportation

Enhancing the Use of Data for Decision Making

Anita Vandervalk, Florida Department of Transportation

Approach to Obtaining Customer Feedback

William Cloud, Montana Department of Transportation

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Monday, January 14, 3:45 p.m.-5:30 p.m., Hilton

Intelligent Transportation Systems 10-Year Program Plan and Research Agenda

Jeffrey F. Paniati, Federal Highway Administration, presiding

Sponsored by Committee on Intelligent Transportation Systems

Presentation of 10-Year Program Plan and Research Agenda

James L. Wright, Minnesota Department of Transportation

ITS America Support

Lawrence Yermack, Parsons Brinckerhoff, Inc.

State Department of Transportation Support

Anthony R. Kane, American Association of State Highway and Transportation Officials

Transit Support

William W. Millar, American Public Transportation Association

Private-Sector Support

Robert P. Denaro, Rand McNally and Company

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Monday, January 14, 3:45 p.m.-5:30 p.m., Hilton

Educating Transportation Planning Professionals of the Future

Thomas F. Humphrey, Volpe National Transportation Systems Center, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning; Committee on Transportation Education and Training; Committee on Transit Management and Performance; Committee on Rail Transit Systems; and Committee on Intergovernmental Relations and Policy Processes

Education of Transportation Planning Professionals, (02-3494)

Susan Handy, Lisa Weston, Maria Lane, Jumin Song, and Jennie Terry, University of Texas, Austin

Repondents: State Department of Transportation Planning

Mary Lynn Tischer, Arizona Department of Transportation

Metropolitan Planning Organizations

Jane D. Hayse, Atlanta Regional Commission

Transit Planning

Richard F. Stevens, Washington Metropolitan Area Transit Authority

240

Monday, January 14, 3:45 p.m.-5:30 p.m., Hilton

New Rail Initiatives: Implications for Commuter Rail, Amtrak, and Freight Rail Providers

Shelly R. Brown, Shelly Brown Associates, presiding

Sponsored by Committee on Transit and Intermodal Transportation Law

Panel Discussion

Giles F. Giovinazzi, U.S. House of Representatives; Charles A. Spitulnik, McLeod, Watkinson & Miller; Gil Mallery, Amtrak West

241

Monday, January 14, 3:45 p.m.-5:30 p.m., Hilton

Preserving the Transportation Profession's Memory

Jonathan L. Gifford, George Mason University, presiding

Sponsored by Committee on Transportation History

Why We Need to Preserve the Profession's Memory

Francis B. Francois, Consultant

Managing Your Own Stuff: Practical Guide for Transportation Professionals and Their Survivors

Janice W. Bain-Kerr, Bureau of Transportation Statistics; Jonathan L. Gifford, George Mason University

Oral Histories: More Than Recorded Conversation

Pam Henson, Smithsonian Institution

Electronic Files: Archivist's Nightmare

Steve Puglia, National Archives and Records Administration

242

Monday, January 14, 3:45 p.m.-5:30 p.m., Hilton

Economic Analysis of Pricing and Social Issues in Transportation

Douglas B. Lee, Volpe National Transportation Systems Center, presiding

Sponsored by Committee on Transportation Economics

Estimating the Benefits from Vehicle Use Pricing Strategies, (02-2150)

Patrick T. DeCorla-Souza, U.S. Department of Transportation

Identifying Winners and Losers in Transportation, (02-2014)

David M. Levinson, University of Minnesota

Differences in Subjective and Social Values of Time: Empirical Evidence From Traffic Study in Croatia, (02-3726)

Pierre B. Vilain, Louis Berger & Associates, Inc.; Nikhil Bhandari, Louis Berger Group, Inc.

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Monday, January 14, 5:30 p.m.-7:00 p.m., Marriott

Ask the Experts: Vehicle Sanctions to Combat Drinking and Driving

Barry M. Sweedler, Safety and Policy Analysis International, presiding

Sponsored by Committee on Alcohol, Other Drugs, and Transportation

After brief opening remarks by the experts an opportunity to query and discuss this subject with them..

New York City's First DWI Offense Vehicle Impoundment Program

George A. Grasso, New York City Police Department

Minnesota Impoundment and Forfeiture Programs: How to Design an Effective Program

Stephen M. Simon, University of Minnesota

Specific Deterrent Effects of Vehicle Impoundment on Suspended and Revoked Drivers in California

David J. DeYoung, California Department of Motor Vehicles Research Branch

Long Island, New York's First, and Multiple DWI Offense Vehicle Impoundment Programs

John H. Lacey, Mid America Research

Monday, January 14, 5:30 p.m.-7:00 p.m., Shoreham

Railroad Caucus

Here is an opportunity for all railroaders to get together, renew acquaintances, and catch up on the latest news. A no-host bar will be available.

Monday, January 14, 5:30 p.m.-7:00 p.m., Hilton

Transit Caucus

Sponsored by Section on Public Transportation

Everyone interested in transit can meet colleagues here and discuss recent events and news. Transit poster session papers (sessions 205, 206, and 207) will be on display. A no-host bar will be available.

Monday, January 14, 5:30 p.m.-7:30 p.m., Hilton

International Participants Reception

Sponsored by Committee on International Activities

Participants from all countries are invited to gather at this reception to renew acquaintances. A no-host bar will be available.

Monday, January 14, 6:00 p.m.-7:00 p.m., Shoreham

TRB Distinguished Lecture

Michael S. Bronzini, George Mason University, presiding

Sponsored by Group 1 Council, Transportation Systems Planning and Administration

Francis X. McKelvey, Professor Emeritus, Michigan State University, is the recipient of the 2002 TRB Distinguished Lectureship award, which recognizes the career contributions and achievements of an individual in one of five areas covered by the Board's Technical Activities Division. Honorees present overviews of their technical areas, covering the evolution, status, and prospects for the future.

Everyone participating in the Annual Meeting is encouraged to attend the lecture.

A Perspective on our National Air Transportation System: The Past, the Present and the Future.

Francis X. McKelvey, Michigan State University

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Monday, January 14, 7:30 p.m.-9:30 p.m., Marriott

Future Look at Design-Build

Thomas R. Warne, Tom Warne Associates, L.L.C., presiding

Sponsored by Task Force on Design Build

This session will examine the future of design-build and its potential impact on the transportation industry. Representatives from state departments of transportation and the contracting and engineering communities will provide their thoughts for the future of this important project strategy.

Panel Discussion

Greg Xanders, Florida Department of Transportation; Gary Higdem, Granite Construction, Inc.; Stephen M. Shive, Parsons Transportation Group, Inc.; Ronald C. Williams, Arizona Department of Transportation

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Monday, January 14, 7:30 p.m.-9:30 p.m., Marriott

Traffic Adaptive Signal Control Systems

Gary Piotrowicz, Road Commission for Oakland County, presiding

Sponsored by Committee on Traffic Signal Systems

Realizing Benefits of Adaptive Signal Control System, (02-3256)

Byungkyu "Brian" Park, University of Virginia; Myungsoon Chang, Hanyang University, Korea

Adaptive Signal Control System with Online Performance Measure, (02-3353)

Xianghong Liu, Jun-Seok Oh, and Will Recker, University of California, Irvine

Real-Time Offset Tuning: Motivation, Findings, and Lessons Learned., (02-3405)

Montasir M. Abbas, Texas A&M University System; Darcy Bullock, Purdue University

Traffic Adaptive Control for Oversaturated Isolated Intersections, (02-2308)

Honglong Li and Panos D. Prevedouros, University of Hawaii, Manoa

Implementation and Field Testing of OPAC Adaptive Control Strategy in RT-TRACS, (02-3667)

Nathan H. Gartner, University of Massachusetts; Farhad J. Pooran and Christina M. Andrews, PB Farradyne, Inc.

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Monday, January 14, 7:30 p.m.-9:30 p.m., Marriott

Operational and Safety Considerations in Design of Freeways and Two-Lane Highways

Paul W. Dorothy, Burgess & Niple, Limited, presiding

Sponsored by Committee on Operational Effects of Geometrics

Dynamic Cross Sections: Increased Capacity on Existing Infrastructure, (02-2681)

Henri Stembord, Transport Research Centre AW, Netherlands; Ton van den Brink and Bert Helleman, Transport Research Centre AVV, The Netherlands

Freeway On-Ramp Design Criteria for Ramp Meters with Excessive Queue Detectors, (02-3821)

Nadeem A. Chaudhary and Carroll J. Messer, Texas A&M University System

Relationship Among Design, Operating, and Posted Speeds on Horizontal Curves on Rural Two-Lane Highways in Nebraska, (02-2363)

Karen S. Schurr, Patrick T. McCoy, Geza Pesti, and Ryan R. Huff, University of Nebraska, Lincoln

Safety Evaluation Process of Two-Lane Rural Roads: Ten-Year Review , (02-2178)

Basil M. Psarianos, National Technical University of Athens, Greece; Rudiger Lamm, Universitat Karlsruhe, Germany; Salvatore Cafiso, Catania University, Italy

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Monday, January 14, 7:30 p.m.-9:30 p.m., Marriott

Emergency Services: A Vital Connection?

Peter M. Briglia Jr., Washington State Department of Transportation, presiding

Sponsored by Committee on Freeway Operations

One-Way Operations for Evacuations: State of the Practice

Alfred H. Badgett, PBS&J

Effect of September 11th on International Border Crossings

Kunwar Rajendra, Michigan Department of Transportation

Using Traffic Simulation for Emergency and Disaster Evacuation Planning

Oscar Franzese, Oak Ridge National Laboratory

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Monday, January 14, 7:30 p.m.-9:30 p.m., Marriott

Asphalt Pavement Construction Issues Related to Performance

John E. Haddock, Purdue University, presiding

Sponsored by Committee on Flexible Pavement Construction and Rehabilitation

Laboratory Study of Full-Depth Reclamation Mixes, (02-3139)

Rajib B. Mallick and Matthew R Teto, Worcester Polytechnic Institute; Prithvi S. Kandhal and E. Ray Brown, National Center for Asphalt Technology; Richard L. Bradbury, Maine Department of Transportation; Edward J. Kearney, Gorman Brothers Inc.

Blue Earth County CSAH 20: Engineered Cold In-Place Recycling Project, (02-2731)

Todd W. Thomas, Koch Materials Company; Al Forsberg, Blue Earth County, Minnesota; Erland Lukanen, ERES Consultants, Inc.

Online Tools for Hot-Mix Asphalt Monitoring, (02-2351)

George C. White, Joe P. Mahoney, and George M. Turkiyyah, University of Washington; Kim A. Willoughby, Washington State Department of Transportation; E. Ray Brown, National Center for Asphalt Technology

Virginia's Experience with 9.5-mm Nominal Maximum Aggregate Size SMA, (02-4150)

Brian D. Prowell and Allen Cooley, National Center for Asphalt Technology; Richard J. Schreck, Virginia Asphalt Association

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Monday, January 14, 7:30 p.m.-9:30 p.m., Marriott

Performance of Crack and Joint Sealants and Unsealed Jointed Concrete

Imad L. Al-Qadi, Virginia Polytechnic Institute and State University, presiding

Sponsored by Committee on Sealants and Fillers for Joints and Cracks

Analysis of Bituminous Crack Sealants by Physicochemical Methods and Its Relationship to Field Performance, (02-3217)

Jean-Francois Masson, Peter G. Collins, Jim Margeson, and Gary M. Polomark, National Research Council, Canada

Comparison of Hot Poured Crack Sealants with Emulsified Asphalt Crack Sealants, (02-2592)

Yetkin Yildirim and Mansour Solaimanian, University of Texas, Austin; John D. Bohuslav, Texas Department of Transportation

Joint Sealant Field Performance: Ten-Year Evaluation, (02-2598)

Larry N. Lynch, U.S. Army Engineer Waterways Experiment Station; James G. Chehovits, Crafcro Inc.; David G. Luders, U. S. Air Force

Long-Term Performance of Unsealed Jointed Concrete Pavement, (02-2394)

Martin P. Burke, Jr., Burgess & Niple, Limited; John W. Bugler, New York City Department of Transportation

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Monday, January 14, 7:30 p.m.-9:15 p.m., Marriott

Statistical Developments for Transportation

Mohammad Quershi, University of Missouri, Rolla, presiding

Sponsored by Committee on Statistical Methodology and Statistical Computer Software in Transportation Research

Animation of Simulation-Based Statistics, (02-3145)

Edward Lieberman, KLD Associates

Evaluating Technology Transfer Programs, (02-2086)

Yuko Julie Nakanishi, Rensselaer Polytechnic Institute; Ossama Abd Elrahman, New York State Department of Transportation; George F. List, Rensselaer Polytechnic Institute

New Response Surface Method Based on BP Network and Its Application to Reliability Analysis for Stability of Tunnels, (02-2116)

Xujun Xu, Logistical Engineering University, China

Methodology for Weighting Data from Complex Endogenous Sampling, (02-2420)

Ryuichi Kitamura and Toshiyuki Yamamoto, Kyoto University, Japan; Hiromu Sakai, Institute of Systems Science Research, Japan

Rate Quality Control Method and Overdispersion of Traffic Crash Data, (02-2315)

Nakmoon Sung, Korea Transport Institute; William Taylor and Vincent Melfi, Michigan State University

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Monday, January 14, 7:30 p.m.-9:30 p.m., Marriott

Evaluation of Performance of Cementitious Stabilized Soils

Imran M. Syed, LAW-PCS, presiding

Sponsored by Committee on Cementitious Stabilization

Cold In-Place Recycling and Full-Depth Strengthening of Expansive Subgrade Soils Using Cementitious Waste Products in Northern Climates, (02-4183)

Curtis F. Berthelot, University of Saskatchewan, Canada; Ron Gerbrandt, Saskatchewan Highways and Transport, Canada

Effect of Wet-Dry Cycles on Resilient Modulus of Class C Fly Ash Stabilized Aggregate Base, (02-3161)

Naji Najib Khoury and Musharraf M. Zaman, University of Oklahoma

Field Investigation: Precracking of Soil-Cement Bases to Reduce Reflection Cracking, (02-2400)

Tom Scullion, Texas Transportation Institute

Effect of Lime Treatment on Shear Strength Parameters of Clay Concrete Interface, (02-3853)

Gokhan Baykal and Teoman Metehan, Bogazici University, Turkey

252

Monday, January 14, 7:30 p.m.-9:30 p.m., Marriott

Eminent Domain Trial Techniques

John W. Strahan, Kansas Department of Transportation, presiding

Sponsored by Committee on Eminent Domain and Land Use

Preparing Condemnation Cases for Trial

John W. Strahan, Kansas Department of Transportation

Data Processing for Valuation

Christopher Huffman, Kansas Department of Transportation

Representing Landowners

Patrick J. Sharkey, Mintz, Levin, Cohn, Ferris, Glovsky and Popeo, P.C.

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Monday, January 14, 7:30 p.m.-9:30 p.m., Marriott

Quality Assurance and Quality Control Certification Programs: Drainage Pipe Industry's Perspective

John Owen Hurd, Consultant; Cecil L. Jones, North Carolina Department of Transportation, presiding

Sponsored by Committee on Culverts and Hydraulic Structures

Each panel member will give a short presentation followed by an open question and answer period for audience participation. Handouts of the presentations will be made available at the session.

Panel Discussion

Josh Beakley, American Concrete Pipe Association; Brian C. Roberts, National Corrugated Steel Pipe Association; Gene Palermo, Plastic Pipe Institute; Curtiss W. Gilley, Terrain Engineering, Inc.; Robert P. Walker, Uni-Bell PVC Pipe Association

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Monday, January 14, 7:30 p.m.-9:30 p.m., Marriott

Corrosive Soil Conditions and Their Effects on Buried Metals

Richard P. Long, University of Connecticut, presiding

Sponsored by Committee on Physicochemical Phenomena in Soils

Condition Assessment of Buried Metal-Tensioned Elements, (02-2871)

Kenneth Lawrence Fishman, McMahon & Mann Consulting Engineers, P.C.

New York's Mechanically Stabilized Earth System Corrosion Evaluation Program, (02-4013)

John Joseph Wheeler Jr., New York State Department of Transportation

Corrosion of Reinforcing Steel in Drilled Shafts with Construction Flaws, (02-2812)

Hazem Ahmad Sarhan and Michael Wayne O'Neill, University of Houston

Corrosion Rate Evaluation and Predictions for Piles: Salt Lake, Utah, Case Histories, (02-4072)

Jeremy B. Decker and Kyle M. Rollins, Brigham Young University

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Monday, January 14, 7:30 p.m.-9:30 p.m., Marriott

Illumination and Highway Signs

Thomas Schnell, University of Iowa, presiding

Sponsored by Committee on Visibility

Highway Light Trespass: Human and Social Factors for Environmental Analysis, (02-2558)

Ata M. Khan, Carleton University, Canada

Impact of Highway Illumination on Traffic Fatalities in Various Roadway and Environmental Conditions, (02-4064)

Ping Yi and Jianyun Li, University of Akron; Jian John Lu and Sunanda Dissanayake, University of South Florida; Yucheng Zhang, University of Akron

Daytime Legibility as a Function of Nonfluorescent and Fluorescent Traffic Sign Colors, (02-3232)

Helmut T. Zwahlen and Fathima Fazleena Badurdeen, Ohio University

Retroreflective Material Specifications and On-Road Sign Performance, (02-2788)

Rollin C. Bible and Norbert L. Johnson, 3M

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Monday, January 14, 7:30 p.m.-9:30 p.m., Marriott

Low Blood Alcohol Concentrations: Resolved and Unresolved Issues

Allan F. Williams, Insurance Institute for Highway Safety, presiding

Sponsored by Committee on Alcohol, Other Drugs, and Transportation

This session will include a roundtable discussion of the scientific and policy issues on low blood alcohol concentrations addressed at the 2001 Summer Workshop of the Committee on Alcohol, Other Drugs, and Transportation.

Herbert Moskowitz, Southern California Research Institute; David F. Preusser, Preusser Research Group; Cliff J. Helander, California Department of Motor Vehicles; Robert D. Foss, University of North Carolina, Chapel Hill; Gordon S Smith, Johns Hopkins University; James H. Hedlund, Highway Safety North; Susan A. Ferguson, Insurance Institute for Highway Safety

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Monday, January 14, 7:30 p.m.-9:30 p.m., Marriott

Geographic Information System and Global Positioning System Applications in Railway Maintenance

Kevin Kesler, ENSCO, Inc., presiding

Sponsored by Committee on Railway Maintenance

Applications of New Technology for Federal Railroad Administration Track Inspections

A. L. Clouse, Federal Railroad Administration; Jeffrey Stevens, ENSCO, Inc.

Global Positioning System-Based Remote Monitoring of California Passenger Trains

Ken Galt, California Department of Transportation; Boris Nejikovskiy, ENSCO, Inc.

Remote Monitoring of MARC Passenger Trains

John Kopke, MARC Train Service; Jeffrey Stevens, ENSCO, Inc.

Amtrak Remote Monitoring of High-Speed Trains

Pat Akroyd, National Railroad Passenger Corporation; Rick Tannahill, ENSCO, Inc.

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Monday, January 14, 7:30 p.m.-9:30 p.m., Shoreham

From Accelerated Pavement Testing to Field Performance -- How Do We Get There from Here?

Joe P. Mahoney, University of Washington, presiding

Sponsored by Committee on Full-Scale/Accelerated Pavement Testing

Following the presentation on Australia's experience, the panelists will make short statements about the session topic then respond to questions/statements from the attendees. The focus is on how accelerated pavement testing relates to actual field performance.

Australia's Experience with Accelerated Pavement Testing and Field Performance

Kieran Sharp, ARRB Transport Research Limited; John B. Metcalf, Louisiana State University

Panel Discussion

Don R. Alexander, U.S. Army Construction Engineering Research Laboratory; Jean Francois Corte, Laboratoire Central des Ponts et Chaussées, France; Morris de Beer, CSIR, South Africa; Kenneth W. Fults, Texas Department of Transportation; Gregers Hildebrand, Danish Road Institute, Denmark; Kieran Sharp, ARRB Transport Research Limited; John B. Metcalf, Louisiana State University

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Monday, January 14, 7:30 p.m.-9:30 p.m., Shoreham

**New Experimental Capabilities for Bridge Seismic Research: George E. Brown, Jr.,
Network for Earthquake Engineering Simulation**

Michel Bruneau, University of Buffalo, presiding

Sponsored by Seismic Design of Bridges

**Building the National Collaboratory for Earthquake Engineering: George E. Brown, Jr.,
Network for Earthquake Engineering Simulation**

Joy Pauschke, National Science Foundation

Multiaxial Subassemblage Testing System for Building and Bridge Component Tests

Arturo E. Schultz, University of Minnesota

Versatile High-Performance Testing Facility for Bridges

Michel Bruneau, University of Buffalo

New Generation Centrifuge Earthquake Simulation Testing Facility for Bridge Foundations

Tarek Abdoun, Rensselaer Polytechnic Institute

Multiple Shake-Table Research Facility for Studying Seismic Performance of Bridges

Ian G. Buckle, University of Nevada, Reno

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Monday, January 14, 7:30 p.m.-9:30 p.m., Shoreham

**Execution of Pooled-Funded Study for Nationwide Update of Precipitation Frequency
in the United States**

Wilbert O. Thomas Jr, Michael Baker, Jr., Inc., presiding

Sponsored by Committee on Hydrology, Hydraulics, and Water Quality

The panel will discuss the roles of federal agencies, state departments of transportation, Regional Climate Centers, and others in pursuit of the subject study. The objective is to develop a plan for funding a nationwide update of precipitation frequency for the United States excluding the Southwestern region and the Ohio River Basin, which are areas where the National Weather Service is working on precipitation frequency studies.

Panel Discussion

Geoffrey Bonnin, National Weather Service; Lou Schreiner, U.S. Bureau of Reclamation;
James Angel, Illinois State Water Survey; Art DeGaetano, Northeast Climate Center; Greg
Johnson, USDA-NRCS National Water and Climate Center

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Monday, January 14, 7:30 p.m.-9:30 p.m., Shoreham

Bridge Preservation: Covered Bridges

Sheila Rimal Duwadi, Federal Highway Administration, presiding

Sponsored by Committee on General Structures and Committee on Historic and Archeological Preservation in Transportation

Overview of FHWA's National Historic Covered Bridge Preservation Program

Sheila Rimal Duwadi, Federal Highway Administration

Trials and Successes of Covered Bridge Engineering and Construction: Hamden Covered Bridge, Delaware County, New York, (02-2350)

Phillip Charles Pierce, Phillip C. Pierce, P.E.

Rehabilitation of Georgia's Covered Bridges

Paul V. Liles Jr. and Gail A. D'Avino, Georgia Department of Transportation

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Monday, January 14, 7:30 p.m.-9:30 p.m., Shoreham

Airport-Rail Access: Case Studies

Fred Silverman, PB Aviation; George Haikalis, Institute for Rational Urban Mobility, Inc., presiding

Sponsored by Committee on Airport Terminals and Ground Access and Committee on Intercity Rail Passenger Systems

Preliminary Findings of Fixed Guideway Rail Links Using Maglev Technology: Pittsburgh and Baltimore-Washington Airports

Arrigo P. Mongini, Federal Railroad Administration; Thomas Adler, Resource Systems Group, Inc.

Airport MAX: Bringing Light Rail to Portland Airport

Susie Lahsene, Port of Portland; Ann Becklund, TriMet

Air Train--Newark: An Update

James Blackmore, Port Authority of New York and New Jersey

263

Monday, January 14, 7:30 p.m.-9:30 p.m., Shoreham

Current Aviation Issues: Impacts of September 11

Gerald W. Bernstein, Stanford Transportation Group, LLC, presiding

Sponsored by Committee on Aviation Economics and Forecasting

Large Transport Manufacturer Developments and Issues

Derrick J. Maple, Smiths Aerospace

Shifting Aircraft Market Trends

Bill Dane, Forecast International

Business Aviation Developments and Issues

Michael D. Chase, Gulfstream Aerospace Corporation

Air Cargo Issues and Developments

Anne Strauss-Wieder, A. Strauss-Wieder, Inc.

California Air Passenger Trends Since September 11

Geoffrey David Gosling, University of California, Berkeley

Regional Aviation Developments and Issues

Douglas E. Abbey, AvStat Associates, Inc.

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Monday, January 14, 7:30 p.m.-9:30 p.m., Hilton

Highlights of Access Management Manual

Arthur Jay Eisdorfer, New Jersey Department of Transportation, presiding

Sponsored by Committee on Access Management

Panel Discussion

Ronald K. Giguere, Federal Highway Administration; Kristine M. Williams, University of South Florida; Vergil G. Stover, Consultant

Perceived Economic Impacts of Access Management: Attributable Characteristics Affecting Washington State Businesses, (02-4074)

Patrick Vu and Venkataraman N. Shankar, University of Washington

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Monday, January 14, 7:30 p.m.-9:30 p.m., Hilton

Accessible Pedestrian Signals

David L. Harkey, University of North Carolina, Chapel Hill, presiding

Sponsored by Committee on Accessible Transportation and Mobility; Committee on Traffic Control Devices; and Committee on Pavement Rehabilitation

Toward Safer Crosswalks in French Cities for Visually Impaired People

Maryvonne Dejeammes, CERTU, France

Accessible Pedestrian Signals in Sweden, Denmark, Australia, and Japan

Billie Louise Bentzen, Accessible Design for the Blind

Speech Messages for Accessible Pedestrian Signals

Julie Gonzalez, California Department of Transportation; Janet M. Barlow, Center for the Visually Impaired

ADA and Accessible Pedestrian Signals

Ken F. Kobetsky, American Association of State Highway and Transportation Officials; Lukas Franck, The Seeing Eye

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Monday, January 14, 7:30 p.m.-9:30 p.m., Hilton

Vehicle-Highway Automated Systems: What Does the Future Hold?

Rodney K. Lay, Mitretek Systems, Inc., presiding

Sponsored by Committee on Vehicle-Highway Automation

Designing Future Automotive In-Vehicle Devices: Issues and Guidelines, (02-2312)

Vivek D. Bhise, University of Michigan

Motorway Flow Quality Impacts of Advanced Driver Assistance Systems, (02-2671)

Serge P. Hoogendoorn and Michiel Minderhoud, Delft University of Technology, Netherlands

Evaluation of Effects of Adaptive Cruise Control Systems on Highway Traffic Flow Capacity and Implications for Deployment of Future Automated Systems, (02-3665)

Joel VanderWerf, Steven E. Shladover, Mark Miller, and Natalia Kourjanskaia, University of California, Berkeley

Automated Highway System Dedicated to Intercity Trucking: Operating Concepts and Deployment, (02-2857)

Hsiao-Shen Jacob Tsao and Jan Louis Botha, San Jose State University

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Monday, January 14, 7:30 p.m.-9:30 p.m., Hilton

Strategic Data Issues for Operating the Nation's Surface Transportation System

Rolf R. Schmitt, Federal Highway Administration, presiding

Sponsored by Committee on National Transportation Data Requirements and Programs

Need for Information Infrastructure for the Nation's Surface Transportation System

Stephen C. Lockwood, Parsons Brinckerhoff, Inc.

Proposed Data Content of Information Infrastructure

Michael S. Bronzini, George Mason University

Public-Private Strategy for Deploying the Transportation Information Infrastructure

Philip J. Tarnoff, University of Maryland

Next Steps in Developing the Transportation Information Infrastructure

Jeffrey F. Paniati, Federal Highway Administration

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Monday, January 14, 7:30 p.m.-9:30 p.m., Hilton

Intelligent Transportation Systems Evaluation

Daniel Brand, Charles River Associates, Inc., presiding

Sponsored by Committee on Intelligent Transportation Systems

Traveler Information Data Sharing: State of the Practice, (02-3321)

Mark Miller, University of California, Berkeley

Evaluation Study of TravInfo Regional Traveler Information System, (02-4108)

Y.B. Youngbin Yim, University of California, Berkeley

Benefit/Cost Analysis of Commercial Vehicle Information Systems and Networks Program, (02-3228)

Daniel Brand and Thomas E. Parody, Charles River Associates, Inc.; John E. Orban and Vince Brown, Battelle

Intertechnology Effects in Intelligent Transportation Systems, (02-2011)

David M. Levinson, University of Minnesota; Seshasai Kanchi, ICF Consulting; David Gillen, Wilfred Laurier University, Canada

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Monday, January 14, 7:30 p.m.-9:30 p.m., Hilton

Asset Valuation Issues

Gilbert Y. Baladi, Michigan State University, presiding

Sponsored by Task Force on Transportation Asset Management

Fund-Allocation Strategies for Multiple Regional Highway Agencies, (02-2278)

W. T. Chan, Tien F. Fwa, and J. Y. Tan, National University of Singapore

Multipurpose Asset Valuation for Civil Infrastructure: Aligning Valuation Approaches with Asset Management Objectives and Stakeholder Interests, (02-2809)

Adjo A. Amekudzi, Carnegie-Mellon University; Pannapa Herabat, Asian Institute of Technology, Thailand

Fundamentals of Life-Cycle Cost Analysis, (02-3121)

Douglass B. Lee Jr., Volpe National Transportation Systems Center

Applying the Cost Approach for Pavement Valuation and Asset Management, (02-3501)

Adjo A. Amekudzi, Carnegie-Mellon University; Pannapa Herabat, Asian Institute of Technology, Thailand

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Monday, January 14, 7:30 p.m.-9:30 p.m., Hilton

Traffic Information Systems and Traveller Behavior

Susan T. Chrysler, Texas Transportation Institute, presiding

Sponsored by Committee on User Information Systems

Traveler Response to New Dynamic Information Sources: Analyzing Corridor and Areawide Behavioral Surveys, (02-3613)

Youngbin Yim, University of California, Berkeley; Asad J. Khattak, University of North Carolina, Chapel Hill

Data-Consistent Fuzzy Approach for Online Driver Behavior Under Information Provision, (02-3083)

Srinivas Peeta and Jeong Whon Yu, Purdue University

Design and Implementation of XML-Based Advanced Traveler Information System Message System, (02-2975)

Richard Allyn Glassco, Mitretek Systems, Inc.

Investigation of Travel Demand Patterns for Use in Traveler Information Systems, (02-2255)

Shashi S. Nambisan and Srinivas S. Pulugurtha, University of Nevada, Las Vegas

Understanding Route Change Behavior: Commuter Survey in South Korea, (02-3429)

Kyoung-Sik Kim and Upali Vandebona, University of New South Wales, Australia; Ki-Hyuk Kim, Keimyung University, Republic of Korea

271

Monday, January 14, 7:30 p.m.-9:15 p.m., Hilton

Overview of Advanced Geospatial Research, Part 1: Raconteur Session (Part 2, Session 336)

David Loukes, GeoPlan Consultants, Inc., presiding

Sponsored by Committee on Spatial Data and Information Systems

Raconteur

Cesar A. Quiroga, Texas Transportation Institute

272

Monday, January 14, 7:30 p.m.-9:30 p.m., Hilton

Fuel Cell Transit Bus Technology

William Siegel, Federal Transit Administration, presiding

Sponsored by Section on Public Transportation

Fuel cell technology is rapidly changing. This session will discuss the status of the technology and bus operating experience.

273

Monday, January 14, 7:30 p.m.-9:15 p.m., Hilton

Economics of State-Level Highway Programs

Abigail McKenzie, Minnesota Department of Transportation, presiding

Sponsored by Committee on Transportation Economics

Updating Methods to Calculate Benefits of Road Capacity, (02-2855)

Anthony M. Rufolo, Portland State University

Development of Simplified Highway Cost-Allocation Model, (02-2123)

Jason Carey and John Semmens, Arizona Department of Transportation

Econometric Assessment of Economic Efficiency of State Departments of Transportation, (02-4173)

Donald F. Vitaliano, Rensselaer Polytechnic Institute

274

Monday, January 14, 7:30 p.m.-9:30 p.m., Hilton

Avoiding Conflicts of Interest: Code of Professional Conduct

Donald R. Durkee, Federal Transit Administration, presiding

Sponsored by Committee on Transit and Intermodal Transportation Law

Panel Discussion

James L. Lammie, Parsons Brinckerhoff, Inc.; John Milligan, Milligan & Company, LLC; John J. Bosley, Metropolitan Washington Council of Governments; G. Alexander Taft, Association of Metropolitan Planning Organizations; Ronald A. Jackson, Federal Transit Administration

Tuesday, January 15

300

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Marriott

Performance Tests for Asphalt Mixtures, Part 1 (Part 2, Session 342)

Frank Fee, Citgo, Inc., presiding

Sponsored by Committee on General Issues in Asphalt Technology

Development of Mixture Creep Performance Tests Using Dynamic Shear Rheometer

Gerald H. Reinke, Mathy Technology & Engineering Services, Inc.

Indirect Tension Strength as a Simple Performance Test

Donald W. Christensen, Advanced Asphalt Technologies, LLC

Field Shear Test for Hot-Mix Asphalt

Ramon Bonaquist, Advanced Asphalt Technologies, LLC

Hollow Cylinder Tensile Tester

William G. Buttlar, University of Illinois, Urbana-Champaign

301

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Marriott

Designing for Intended Operating Speed

Christopher M. Poe, PB Farradyne, Inc., presiding

Sponsored by Committee on Operational Effects of Geometrics and Committee on Geometric Design

Designing for Intended Operating Speed

Raymond A. Krammes, Federal Highway Administration

Selection of Design Speed Values, (02-3513)

Kay Fitzpatrick and Paul J. Carlson, Texas Transportation Institute

Using Predicted Speeds in Roundabout Design

Brian L. Ray, Kittelson & Associates, Inc.

European Arterial Speed Control Measures

Basil M. Psarianos, National Technical University of Athens, Greece

302

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Marriott

Security for Transportation of Hazardous Materials

John C. Allen, Battelle, presiding

Sponsored by Committee on Transportation of Hazardous Materials and Committee on Military Transportation

This panel discussion will address security issues related to the transportation of hazardous materials in light of the events and aftermath of the terrorist events of September 11, 2001. Panel members will include government and industry representatives from the air, water, and surface modes of transportation with viewpoints from the U.S. Departments of Transportation, Defense, and Energy. Issues to be addressed include what the threats are, what the potential approaches to mitigation are, and whether there are technology solutions to addressing the threats.

303

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Marriott

Concrete Pavement Technology Program, Part 1 (Part 2, Session 345)

Joseph T. Deneault, West Virginia Department of Transportation, presiding

Sponsored by Committee for Research on Improved Concrete Pavement for Federal-Aid Highways

Overview of Concrete Pavement Technology Program and Transportation Research Board Role

Joseph T. Deneault, West Virginia Department of Transportation

Rapid Pavement Reconstruction and Traffic Management

Jeffery R. Roesler, University of Illinois, Urbana-Champaign

Field Trials of High-Performance Concrete Pavements, TE-30

Mark Swanlund, Federal Highway Administration

Performance and Design of Whitetopping

Shiraz D. Tayabji, Construction Technology Laboratories, Inc.

304

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Marriott

Highway Embankments and Slopes

Norman D. Dennis, University of Arkansas, presiding

Sponsored by Committee on Transportation Earthworks

Road Stabilization, Reconstruction, and Maintenance with Combined Mechanically Stabilized Earth and Secant Pile Wall, Zion National Park, (02-4026)

Scott A. Anderson and Jennifer L. Williams, URS Corporation

Embankment Support: Comparison of Stone Column and Rammed Aggregate Pier Soil Reinforcement, (02-3354)

David J. White, Iowa State University; Kord J. Wissmann, Geopier Foundation Company, Inc.; Andrew G. Barnes, U.S. Army Corps of Engineers; Aaron J. Gaul, Terracon Consultants

Research on Monitoring System of Road Slope Failures with Optical Fiber Sensors, (02-2421)

Mamoru Tanaka, Hiroshi Miki, Nobuyuki Tsuneoka, Shunji Kato, and Teppei Ogawa, Public Works Research Institute, Japan

Managing Geotechnical Assets: New Perspective for Dealing with Geotechnical Issues, (02-3625)

Kristen L. Sanford Bernhardt and J. Erik Loehr, University of Missouri, Columbia

305

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Marriott

New Tools and Technologies for Maintenance Management

Robert M Peda, Pennsylvania Department of Transportation, presiding

Sponsored by Committee on Maintenance and Operations Management

Highway Maintenance Scheduling Using Genetic Algorithm with Microscopic Traffic Simulation, (02-2174)

Ruey-Long Cheu, Ying Wang, and Tien F. Fwa, National University of Singapore

Florida Department of Transportation Rural County Asset Management Contract, (02-3382)

Elizabeth Birriel, Florida Department of Transportation

Sign Management System Implementation, (02-3062)

Lansford Bell, Clemson University; Brad Williams, Choate Construction Co.

306

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Marriott

No-Build Alternative for Intercity Rail: Consequences

Marilyn D. Duffey, The Duffey Company, presiding

Sponsored by Committee on Guided Intercity Passenger Transportation

No-Build Alternative for High-Speed Rail: Key Part of the Analysis

Marilyn D. Duffey, The Duffey Company

Purpose and Need Relationship to Defining Alternatives

Kip D. Field, Parsons Brinckerhoff Quade and Douglas, Inc.

Midwest High-Speed Rail Alternatives

Kevin Brubaker, Environmental Law and Policy Center

Noise Impacts of the No-Build Alternative

Carl E. Hanson, Harris Miller Miller & Hanson, Inc.

307

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Marriott

Enhanced Security Versus Privacy

John W. Strahan, Kansas Department of Transportation, presiding

Sponsored by Committee on Transportation Law

Privacy Problems and Overview

Mark A. McNulty, Delaware Department of Transportation

Surveillance Technologies

Chris Hoofnagle, Electronic Privacy Information Center

IT Privacy Issues

Stephen N. Roberts, Nossaman, Guthner, Knox and Elliott, LLP

Privacy Issues: Government

Lori Sharpe Day, U.S. Department of Justice

308

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Marriott

Road Safety Audits: Practical North American Experience

Leanna Depue, Central Missouri State University, presiding

Sponsored by Committee on Transportation Safety Management

Progress Report: Advances in Road Safety Audits and Road Safety Audit Reviews in the United States

Martin E. Lipinski, University of Memphis; Eugene M. Wilson, University of Wyoming

Canadian Road Safety Audit Guide

Paul de Leur, Transportation Association of Canada's Working Group on RSA

Road Safety Audits for Municipal Projects

Geoffrey Ho, Insurance Corporation of British Columbia, Canada

Common Safety Concerns Identified by Road Safety Audits

Sany R. Zein, Hamilton Associates, Canada

309

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Marriott

Driver Modeling

M. Joseph Moyer, Federal Highway Administration, presiding

Sponsored by Committee on Simulation and Measurement of Vehicle and Operator Performance

Overview of Interactive Highway Safety Design Model

Raymond A. Krammes, Federal Highway Administration

Modification and Partial Validation of Driver/Vehicle Module, (02-2800)

William H. Levison, William H. Levison Associates; Alvah C. Bittner Jr. and John L. Campbell, Battelle Memorial Institute; Chris Schreiner, OnStar

Driver/Vehicle Module Software Architecture and Operational Performance, (02-3830)

Tom Robbins, ITT Industries, Inc; Alvah C. Bittner Jr., Battelle Memorial Institute; Steven J. Hunn, ITT Industries, Inc; William H. Levison, William H. Levison Associates; Alvah C. Bittner, Battelle Memorial Institute

On-Road Versus Simulator Data in Driver Model Development: Driver Performance Model Experience, (02-4103)

Alvah C. Bittner, Battelle Memorial Institute; Ozgur Simsek, University of Massachusetts; William H. Levison, William H. Levison Associates; John L. Campbell, Battelle Memorial Institute

310

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Marriott

Design of Track Structures for Bridges and Bridge Approaches

David D. Davis, Transportation Technology Center, Inc., presiding

Sponsored by Committee on Railroad Track Structure System Design and Committee on Steel Bridges

Union Pacific Railroad's Experience with Ballast Deck Conversions and Bridge Deck Fasteners

Kenneth Wammel, Niemeyer & Associates, P.C.

Burlington Northern Santa Fe Railway's Experience with Steel Bridge Deck Design and Fastening Systems

William G. Byers, Burlington Northern Santa Fe Railway

Performance Evaluation of Alternative Bridge Approach Designs

William GeMeiner, Union Pacific Railroad Company; David Davis, Transportation Technology Center, Inc.

Bridge Approach and Bridge Deck Performance Under Heavy Axle Loads at Facility for Accelerated Service Testing

Duane Otter and Joseph LoPresti, Transportation Technology Center, Inc.

311

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Marriott

Base Materials and Performance

N. Mike Jackson, University of North Florida, presiding

Sponsored by Committee on Mineral Aggregates

Effects of Gradation, Composition, and Degree of Compaction on Mechanical Characteristics Recycled Unbound Materials, (02-2418)

Andre AA Molenaar and Andres Van Niekerk, Delft University of Technology, Netherlands

Laboratory Testing of Suction and Deformation Properties of Base Course Aggregates, (02-3432)

Pauli Kolisoja, Tampere University of Technology, Finland; Timo Pekka Saarenketo, Roadscanners, Finland; Hannu Peltoniemi, Finnish Road Enterprise; Nuutti Vuorimies, Tampere University of Technology, Finland

Effects of Particle and Mix Characteristics on Performance of Some Granular Materials, (02-2646)

Lam Wah Cheung, Scott Wilson Pavement Engineering Ltd., United Kingdom; Andrew R. Dawson, University of Nottingham, United Kingdom

Investigation of Recycled Concrete Made with Limestone, (02-3098)

Hesham Sayed Mahgoub, University of Central Florida

312

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Marriott

Frost Predictions, Effects, and Applications

Billy G. Connor, Alaska Department of Transportation and Public Facilities, presiding

Sponsored by Committee on Frost Action

Frost Penetration Prediction and Mapping Using Numerical Modeling, Statistical Correlation, and Geographic Information Systems, (02-4047)

Stephen P. Farrington and Marty Gildea, Applied Research Associates, Inc.; Michael Pologruto, Vermont Agency of Transportation

Constructing a Pedestrian Tunnel Using Ground Freezing

Steven A. Narkiewicz, Oregon Department of Transportation

Monitoring Pavement Response During Spring Thaw, (02-3225)

Guy Dore and Denis Leboeuf, Laval University, Canada

Solute Effects on Long-Duration Frost Heave Behavior of Aggregate Base Materials, (02-3915)

W. Spencer Guthrie, Texas Transportation Institute; Hongbin Zhan, Texas A&M University System

313

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Shoreham

Concrete Pavement Slab Curling

Anastasios M. Ioannides, University of Cincinnati, presiding

Sponsored by Committee on Rigid Pavement Design

Validating Top-Down Premature Transverse Slab Cracking in Jointed Plain Concrete Pavement, (02-4031)

Will Hansen, University of Michigan; Dave Smiley, Michigan Department of Transportation; Yanfei Peng and Elin Alstrup Jensen, University of Michigan

Crack Resistance of Jointed Plain Concrete Pavement, (02-3765)

Elin Alstrup Jensen and Will Hansen, University of Michigan

Determining the Amount of Built-in Curling in Jointed Plain Concrete Pavement: Case Study of Pennsylvania I-80, (02-2662)

Curt Alan Beckemeyer, ERES Division of Applied Research Associates, Canada; Lev Khazanovich, ERES Consultants, Inc.; Thomas Yu, Applied Pavement Technology, Inc.

Transverse Joint Analysis for Use in Mechanistic-Empirical Design of Rigid Pavements, (02-2426)

Jacob E. Hiller and Jeffery R. Roesler, University of Illinois, Urbana-Champaign

314

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Shoreham

Software for Design of Concrete Bridges by AASHTO Load and Resistance Factor Specifications

Shri Bhide, Portland Cement Association, presiding

Sponsored by Committee on Concrete Bridges

Practical Effects of Load and Resistance Factor Design on Concrete Bridge Piers, (02-4166)

David A. Tomley and Lee D. Tanase, LEAP Software, Inc.

Analysis of Reinforced and Prestressed Structures with Response-2000, (02-3282)

Evan Charles Bentz, University of Toronto, Canada

Prestressed Concrete Girder Bridges: From 2D to 3D Modeling, (02-3102)

Chung C Fu and Shuqing Wang, University of Maryland, College Park

Design of Discontinuity Regions in Structural Concrete Using a Computer-Based Strut-and-Tie Methodology, (02-3000)

Daniel A Kuchma and Tjen N Tjhin, University of Illinois, Urbana-Champaign

315

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Shoreham

Freight Issues, Needs, and Responses: A Decade of Experience After ISTE, Part 1: Freight Trends and Issues (Part 2, Session 357; Part 3, Session 400; Part 4, Session 437; Part 5, Session 513; Part 6, Session 551)

Michael D. Meyer, Georgia Institute of Technology, presiding

Sponsored by Committee on Urban Freight Transportation; Committee on Freight Transportation Planning and Logistics; Committee on Intermodal Freight Transport; Committee on Freight Transportation Data; and Committee on Intergovernmental Relations and Policy Processes

Emerging and Future Freight Trends and Dynamics

Gary E. Maring, Federal Highway Administration

E-Business Challenges for Intermodal Freight: Some International Comparisons, (02-3375)

Nariida C. Smith, CSIRO Building Construction and Engineering, Australia; Garland Chow, University of British Columbia, Canada; Luis Ferreira, Queensland University of Technology, Australia

Changing Dynamics of the Freight Industry

David B. Edmonds, FedEx Services

316

Tuesday, January 15, 8:00 a.m.-noon, Shoreham

Case Studies in Context-Sensitive Design (Poster Session)

Nikiforos Stamatiadis, University of Kentucky, presiding

Sponsored by Committee on Geometric Design; Committee on Operational Effects of Geometrics; and Committee on Landscape and Environmental Design

Short presentations supplementing each poster will be made starting at 9:00 am in the Blue Room followed by viewing of the 12 posters in the Blue Room Foyer.

SP-1 The "Bridging" Document

Timothy R. Neuman, CH2M Hill

SP-2 Study of Truck Routes Through Historic Delaware Towns

Maureen E. Mauger, Delaware Department of Transportation; Sean C. Carrigan, Gannett Fleming, Inc.

SP-3 Virginia's Route 50: Study in Context-Sensitive Enhancement

G. Wade Walker, Glatting Jackson Kercher Anglin Lopez Rinehart, Inc.

SP-4 Context-Sensitive Design in the Colorado Mountains

Gina McAfee, Carter & Burgess, Inc.; Diane Yates, Carter & Burgess, Inc.

SP-5 Balancing Transportation, Community, and Environmental Needs: Minnesota's North Shore Scenic Highway

Scott D. Bradley, Minnesota Department of Transportation

SP-6 Danville Project: Unique Collaboration Between Engineers and Artists

Gary H. DuBray, Vermont Agency of Transportation

SP-7 Wichita Falls Overhead Project: Merging Function and Aesthetics Through Multidisciplinary Design

Mark S. Mathews, Texas Department of Transportation

SP-8 Aligning Stakeholders on I-580 Freeway Extension Project

Todd Montgomery, Nevada Department of Transportation; Cindy Potter, CH2M Hill

SP-9 Context-Sensitive Solutions: Building Partnerships for Success

Tricia Millington, New York State Department of Transportation; Wayne Gannett, Tom Behan, and Philip Bell, New York DOT

SP-10 The I-480 Design Experience

Brent Felker, California Department of Transportation

SP-11 Design Experience for U.S. Route 25

Steve Maner, New Jersey Department of Transportation

SP-12 Transportation Enhancement Success Stories from Around the United States

Douglas L. Mann, HNTB Corporation

317

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Shoreham

Effects of Agricultural Equipment on Low-Volume Roads

Robert Harrison, University of Texas, Austin, presiding

Sponsored by Task Force on Agricultural Transportation and Committee on Low-Volume Roads

Scoping Study: Impact of Agricultural Equipment on Minnesota's Low-Volume Roads

Roger C. Olson, Minnesota Department of Transportation

Agricultural Loads on Roads in Iowa

Mark J. Nahra, Delaware County Engineers Office

Effects of Off-Road Tires on Flexible and Granular Pavements

Peter E. Sebaaly, University of Nevada, Reno

Effects of Tire Pressure on Low-Volume Roads

Maureen A. Kestler, USDA Forest Service

318

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Shoreham

New Research in Airfield-Airspace Systems and Technologies, Part 1 (Part 2, Session 359)

Robert Rosen, NASA-Ames Research Center, presiding

Sponsored by Committee on Airfield and Airspace Capacity and Delay and Committee on Light Commercial and General Aviation

Panel Discussion

James M. Crites, Dallas-Ft. Worth International Airport; Raymond R. LeFrey, Massachusetts Institute of Technology; Patricia Massimini, MITRE Corporation; Dennis Muilenburg, Boeing Company

319

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Shoreham

Airport Public Parking and Rental Car Facilities: Recent Trends and Innovations

Allen Hoffman, Leigh Fisher Associates, presiding

Sponsored by Committee on Airport Terminals and Ground Access and Committee on Major Activity Center Circulation Systems

Common Challenges to Airport Parking and Rental Car Development

William C. Lebegern and Michael Hackett, Metropolitan Washington Airports Authority

Recent Advances in Rental Car Facility Planning and Design

Ernest Rogers, Leigh Fisher Associates

Automated People Mover Applications in Rental Car and Parking Facility Development

Lawrence J. Fabian, Transit Pulse/Trans. 21

Intelligent Transportation System and Other Advanced Technology Applications for Airport Parking

TBA, No Organization

320

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Hilton

Metropolitan Capacity Building Initiative

Peter E. Plumeau, Wilbur Smith Associates, presiding

Sponsored by Committee on Intergovernmental Relations and Policy Processes

Panel Discussion: Global Perspectives on MCB Initiative--Purpose, Goals, and Objectives

Cynthia J. Burbank, Federal Highway Administration; Charlotte M. Adams, Federal Transit Administration; G. Alexander Taft, Association of Metropolitan Planning Organizations; Janet P. Oakley, American Association of State Highway and Transportation Officials; Richard A. Weaver, American Public Transportation Association

Panel Discussion: Practitioner Perspectives on MCB Initiative

Lisa B. Beever, Charlotte County-Punta Gorda Metropolitan Planning Organization; Michael R. Morris, North Central Texas Council of Governments; Carmine Palombo, Southeast Michigan Council of Governments

321

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Hilton

Symposium on Transportation and Sustainability, Part 1: Perspective from ENO Global Climate Change Seminar Series (Part 2, Session 362; Part 3, Session 390; Part 4, Session 427; Part 5, Session 460)

Damian J. Kulash, Eno Transportation Foundation, presiding

Sponsored by Task Force on Transportation and Sustainability; Committee on Transportation Energy; and Committee on Alternative Transportation Fuels

Findings of National Assessment with Implications for Transportation Facilities and Operations

Anthony Janetos, World Resources Institute

Implications for Transportation Infrastructure Using New York Metropolitan Area as an Example

Rae Zimmerman, New York University

Panel Discussion

Mortimer Downey, Parsons Brinckerhoff, Inc.; David Gardiner, David Gardiner & Associates, LLC; Rick Brown, American Petroleum Institute; Christopher J. Linn, Delaware Valley Regional Planning Commission

322

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Hilton

Issues Affecting Women's Travel and Mobility

Sherry B. Ways, Federal Transit Administration, presiding

Sponsored by Committee on Women's Issues in Transportation

Women, Minorities, and Democratization of Mobility in the New Millennium

Alan E. Pisarski, Consultant

Job Training Activities and Transportation Among WAGES Participants

Beverly G. Ward, University of South Florida

Low-Income Women, Transportation, and Access to Employment, (02-4142)

Evelyn A. Blumenberg, University of California, Los Angeles

Clinic Destination Choice for Prenatal Care Access in Rural South Africa, (02-4089)

Talia Melanie McCray, Laval University, Canada

Asking the Right Questions: Understanding Travel Needs of Older Women Who Do Not Drive, (02-3554)

Sandra Rosenbloom and Cheryl Winsten-Bartlett, University of Arizona

323

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Hilton

Rail Transit

Peter Fahrenwald, Chicago Transit Authority, presiding

Sponsored by Committee on Rail Transit Systems

Chicago's North Side "L": The First Hundred Years, (02-2345)

John G. Allen, Chicago Regional Transportation Authority; Steven H. Abrams, Chicago Transit Authority

Rail Transit in Metropolitan Tel Aviv

Zvi Leshem, NTA

Rail Transit Operations Analysis: Framework and Applications

Adam B. Rahbee, Massachusetts Institute of Technology

Model Predictive Control Approach for Recovery from Delays in Railway Systems, (02-2707)

Bart De Schutter, Ton Van den Boom, and Andreas Hegyi, Delft University of Technology, Netherlands

324

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Hilton

Environmental Systems and Strategies

Carol D. Cutshall, Wisconsin Department of Transportation, presiding

Sponsored by Committee on Environmental Analysis in Transportation

Integrated Approach for Identifying Potential Environmental Issues in Proposed Transportation Corridors, (02-3681)

Alir Bejleri and Paul Dean Zwick, University of Florida; Andrew Lyons, University of California, Berkeley

State Department of Transportation-Funded Positions at Resource Agencies: Trends, Tools, and Assessing Effectiveness, (02-3905)

Marie Venner, Colorado Department of Transportation

Geographic Information System- Based Environmental Evaluation System for Highway Projects, (02-3741)

Manoj K. Jha, Maryland State Highway Administration

Use of Tiered Environmental Studies in National Environmental Policy Act Process for Highway Projects, (02-3547)

William Malley and Angela Marie Dusenbury, Akin, Gump, Strauss, Hauer & Field LLP

325

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Hilton

Inter- and Intragovernmental Relations Involving Tribal Transportation Programs

Ron Hall, Colorado State University, presiding

Sponsored by Committee on Native American Transportation Issue

Panel Discussion

Neil McCaleb, U.S. Department of the Interior; John C. Horsley, American Association of State Highway and Transportation Officials; Mary Peters, Federal Highway Administration; Anthony R. Giancola, National Association of County Engineers; Tex Hall, Three Affiliated Tribes

326

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Hilton

Challenges in Accessible Transportation: Safety, Access, Security, and Independence

Robert W. Barnes, Ministry of Transportation of Ontario, Canada, presiding

Sponsored by Committee on Accessible Transportation and Mobility

From Providing Access to Developing and Maintaining Mobility, (02-3540)

Enne de Boer, Delft University of Technology, Netherlands

Community Inclusion Model: Alternative for Solving Transportation Problems of Persons with Disabilities in Remote Rural Areas

George Amedee, Jackson State University

Emergency Evacuation and Safety Issues in Transporting Individuals with Disabilities

Rosalyn M. Simon, Simon Research and Associates, Inc.

Travelers with Disabilities

Katharine M. Hunter-Zaworski, Oregon State University

327

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Hilton

What's New in Paratransit

Betsy Buxer, Community Forum, presiding

Sponsored by Committee on Paratransit

Impact of Computer-Assisted Scheduling and Dispatching Systems on Paratransit Service Quality, (02-2442)

Anthony M. Pagano and Paul Metaxatos, University of Illinois, Chicago; Mark King, Urban Transportation Center

Private and Public Shuttle Service Opportunities: System's Approach, (02-2803)

Francis Wamukota Wambalaba, University of South Florida

On Planning and Design of Flex-Route Transit Services, (02-2324)

Liping Fu, University of Waterloo, Canada

Accessibility of Small Buses, (02-2696)

Campbell Y. McKee, C N Unwin Ltd., United Kingdom; Jenny Meadows, Community Transport Association, United Kingdom

328

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Hilton

International Intelligent Transportation System Activities

Heinz Sodeikat, Siemens AG, Germany, presiding

Sponsored by Committee on Communications

Driver Assistance Systems' Contribution to Reaching European Union e-Safety Objectives

Karl Naab, BMW, Germany

Applications of Geographic Databases to Future Navigation and Driver Assistance Systems

Martin Rowell, Navigation Technologies GmbH, Germany

Stadtfokoln: Case Study on How Technology Can Facilitate Mobility in Conurbations

Marcos Michaelsen, Ford Research Center Aachen, Germany

329

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Hilton

Making the Connection: Transportation, Community Design, and Public Health

David G. Burwell, Rails-to-Trails Conservancy, presiding

Sponsored by Committee on Social and Economic Factors of Transportation and Committee on Pedestrians

Panel Discussion

Rich Killingsworth, Robert Wood Johnson Foundation; James Sallis, San Diego State University; Reid Ewing, Surface Transportation Policy Project; Jeff Morales, California Department of Transportation

330

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Hilton

Transportation Planning and Programming

Dale A. Janik, Wilbur Smith Associates, presiding

Sponsored by Committee on Transportation Programming, Planning, and Systems Evaluation

Model-Based Long-Range Transportation Planning Tool for New Jersey, (02-3574)

Anthony J. DeJohn, Parsons Brinckerhoff, Inc.; Robert Miller, New Jersey Department of Transportation; Kyle B. Winslow, Jennifer J. Grenier, and Deborah A. Cano, Parsons Brinckerhoff, Inc.

Urban Transportation Planning for Air Quality Management: Role of Social and Economic Costs in Optimal Modal Transport Choice--Case Study in Delhi, India, (02-3085)

Karolin Kokaz and Peter P. Rogers, Harvard University

Postaudit Review: Previous Audits of Project Development on California State Highway System, (02-2151)

Debbie A. Niemeier and Harry Hecht, University of California, Davis

Tale of Two Plans: Determinants of Plan Implementation, (02-4016)

Arturo Ardila, Massachusetts Institute of Technology

Transportation Policies in Bogota: Building a Transportation System for the People, (02-3858)

Arturo Ardila, Massachusetts Institute of Technology; Gerhard Menckhoff, The World Bank

331

Tuesday, January 15, 8:00 a.m.-9:45 a.m., Hilton

National Strategic Transportation Research Programs

C. Michael Walton, University of Texas, Austin, presiding

Sponsored by Division A Council, Technical Activities

National Research and Technology Partnership

Robert E. Spicher, Consultant

Surface Transportation Environmental Cooperative Research Program Advisory Board

Elizabeth A. Deakin, University of California, Berkeley

Preparing for a Future Strategic Highway Research Program

Bradley L. Mallory, Pennsylvania Department of Transportation

Ten-Year Project Plan on Transportation Research Agenda

Larry Schulman, ITS America

Tuesday, January 15, 9:00 a.m.-9:00 p.m., Marriott

Video Theatre: Pedestrians and Bicycles

Elise Bremer-Nei, New Jersey Department of Transportation, presiding

Sponsored by Committee on Pedestrians and Committee on Bicycling

Tuesday, January 15, 9:00 a.m.-noon, Marriott

Highway Crash Analysis, Data Analysis, and Modeling (Poster)

Sponsored by Committee on Safety Data, Analysis, and Evaluation

Diagnostic Methodology for Detection of Safety Problems at Intersections, (02-2148)

Jake Kononov, Colorado Department of Transportation; Bruce N. Janson, University of Colorado, Denver

Safety Comparison of Two Left-Turn Alternatives from Driveways Using Traffic Conflict Analysis, (02-3076)

Sunanda Dissanayake, Jian John Lu, and Nelson Castillo, University of South Florida

Bivariate Ordered-Response Probit Model of Driver's and Passenger's Injury Severities in Collision with Fixed Objects, (02-3602)

Toshiyuki Yamamoto, Kyoto University, Japan; Venkataraman N. Shankar, University of Washington

Traffic Safety Analysis for Toll Plazas of Toll Facilities Using Artificial Neural Networks and Logit Models, (02-2270)

Hassan T. Abdelwahab and Mohamed A. Abdel-Aty, University of Central Florida

Estimating Benefits from Specific Highway Safety Improvements: Phase III--Benefits of Lane Widening and Adding Left-Turn Lanes, (02-3129)

Joseph Harold Rimiller, University of Connecticut

Evaluation of Lane Reduction Road Diet Measures on Crashes and Injuries, (02-2955)

Herman Huang, J. Richard Stewart, and Charles V. Zegeer, University of North Carolina, Chapel Hill

Study of Intersection Accidents by Maneuver Type, (02-3436)

Sudeshna Mitra and Hoong Chor Chin, National University of Singapore

Empirical Bayes Method for Estimating Safety: A Tutorial., (02-2181)

Ezra Hauer, University of Toronto, Canada; Douglas W. Harwood, Midwest Research Institute; Forrest M. Council, University of North Carolina, Chapel Hill; Michael S. Griffith, Federal Highway Administration

Severity of Young Driver Crashes Using Sequential Binary Logistic Regression Modeling, (02-2302)

Sunanda Dissanayake and J. John Lu, University of South Florida

Selecting Exposure Measures for Predicting Crash Rates on Two-Lane Rural Highways, (02-2567)

Xiao Qin and John N. Ivan, University of Connecticut

Overall Injury Risk to Different Drivers: Combining Exposure, Frequency, and Severity Models, (02-2607)

Young-Jun Kweon and Kara M. Kockelman, University of Texas, Austin

Motor Vehicle Crashes and Land Use: Empirical Analysis from Hawaii, (02-3079)

Karl E. Kim and Eric Yukio Yamashita, University of Hawaii, Manoa

Cross-Median Collisions on Pennsylvania Interstates and Expressways, (02-2806)

Eric T. Donnell, Pennsylvania State University; Douglas W. Harwood and Karin M. Bauer, Midwest Research Institute; John M. Mason Jr and Martin T. Pietrucha, Pennsylvania State University

Safety of Triple Left-Turn Lanes in Florida, (02-2789)

Albert C. Gan, Florida International University; Burton W. Stephens, University of Florida;
Qiong Shen, Florida International University; Eduardo Guinard, Consul-Tech Engineering,
Inc.

**Development and Testing of Shoulder Rumble Strips Using Bicyclists' Perspectives,
(02-3067)**

Abdulilah Z. Zineddin, Pennsylvania State University; Philip M. Garvey and Darrin J. Torbic,
Pennsylvania Transportation Institute; Lily Elefteriadou, Pennsylvania State University

**Geographic Information System Application to Road Accident Management System as Part
of Trauma Management System for Community Health Promotion: Case Study in Khon
Kaen, Thailand, (02-3977)**

Danai Ruengporn and Yordphol Tanaboriboon, Asian Institute of Technology, Thailand;
Witaya Chadbunchachai and Pornpimon Teekayuphun, Khon Kaen Regional Hospital,
Thailand

**Issues Related to Application of Accident Prediction Models for Computation of Accident
Risk on Transportation Networks, (02-3598)**

Dominique Lord, Texas Transportation Institute

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Tuesday, January 15, 9:00 a.m.-noon, Marriott

Statistical Methods and Highway Safety (poster)

*Sponsored by Committee on Statistical Methodology and Statistical Computer Software in
Transportation Research*

**MP-1 Injury Severity Analysis with Variable and Correlated Thresholds: Ordered Mixed
Logit Formulation, (02-3805)**

Karthik K. Srinivasan, Vanderbilt University

**MP-2 Development of Models to Quantify Impacts of Signalization on Intersection Crashes,
(02-2253)**

Juan C. Pernia, Jian John Lu, Xiangli Xie, and Michael Weng, University of South Florida;
Deborah Snyder, Florida Department of Transportation

MP-3 Modeling Simultaneity in Injury Causation in Multivehicle Collisions, (02-3349)

Venkataraman N. Shankar and Yanfeng Ouyang, University of Washington; Toshiyuki
Yamamoto, Kyoto University, Japan

**MP-4 Use of Direct Diagnostics and Pattern Recognition Methodologies in Identifying
Locations with Potential for Accident Reductions, (02-2160)**

Jake Kononov, Colorado Department of Transportation

**MP-5 Issues of Calibration and Transferability in Developing Accident Prediction Models
for Urban Intersections, (02-3293)**

Bhagwant Persaud, Ryerson Polytechnic University, Canada; Dominique Lord, Texas
Transportation Institute; Joseph Palmisano, Ryerson Polytechnic University, Canada

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Tuesday, January 15, 9:00 a.m.-noon, Marriott

Capacity, Delay, and Saturation Flow Issues at Interrupted Facilities (Poster Session)

Sponsored by Committee on Highway Capacity and Quality of Service

MP-6 Effect of Waiting Times on Critical Gaps and Improved Entry-Capacity Model at Roundabouts, (02-2056)

Abishai Polus, Sitvanit Shmueli Lazar, and Moshe Livneh, Technion - Israel Institute of Technology

MP-7 Empirical Calibration of Intersection Maximum Critical Lane Volume, (02-2111)

Gang-Len Chang and Jenish Joseph, University of Maryland

MP-8 Diminishing Marginal Benefits of Additional Lanes at Signalized Intersections, (02-2293)

Kornel Mucsi, City of Ottawa, Canada; Ata M. Khan, Carleton University, Canada

MP-9 Capacity at Signalized Intersection Approach with Short Right-Turn Lane, (02-2297)

Zong Z Tian, Texas Transportation Institute; Ning Wu, Ruhr University Bochum, Germany; Mark Vandehey, Kittelson & Associates, Inc.

MP-10 Marginal Delay: New Measure for Quality of Service at Signalized Intersections, (02-2347)

Emilia Kohlman Rabbani, Midwest Research Institute; Allen GR Bullen, University of Pittsburgh

MP-11 Detailed Observations of Saturation Headways and Start-Up Lost Times, (02-2470)

Honglong Li and Panos D. Prevedouros, University of Hawaii, Manoa

MP-12 Total Capacities at All-Way Stop-Controlled Intersections: Validation and Comparison of Highway Capacity Manual Procedure and Addition-Conflict-Flow Technique, (02-2582)

Ning Wu, Ruhr University Bochum, Germany

MP-13 Pedestrian Level of Service for Mid-Block Street Crossing: Methodological Issues, (02-2784)

Xuehao Chu and Michael R. Baltes, University of South Florida

MP-14 Application of New Level-of-Service Methodology for Toll Plaza, (02-2882)

Haitham M. Al-Deek, University of Central Florida

MP-15 Characterization of Heavy-Vehicle Headways in Oversaturated Interrupted Conditions: Toward Development of Equivalency Factors, (02-3357)

Ghassan Abu-Lebdeh, University of Kentucky; Stewart Robertson, Kimley-Horn and Associates

MP-16 Using Fuzzy Clustering of User-Estimated Delay to Define Level of Service at Signalized Intersections, (02-3567)

Fang Clara Fang, Pennsylvania Transportation Institute; Lily Elefteriadou, Pennsylvania State University; Kelley Klaver Pecheux, Science Applications International Corporation; Martin T. Pietrucha, Pennsylvania State University

MP-17 Real-Time Inductive-Signature-Based Level of Service for Signalized Intersections, (02-3684)

Cheol Oh and Stephen G. Ritchie, University of California, Irvine

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Tuesday, January 15, 9:00 a.m.-noon, Shoreham Public Involvement in Transportation (Poster Session)

Sponsored by Committee on Public Involvement in Transportation

SP-1 McCarthy Roundtables Project

Judy Chapman, Alaska Department of Transportation and Public Facilities

SP-2 Corridor O Project

Katherine Farrow, Orth-Rodgers & Associates

SP-3 Street Design and Transportation Vision Charrette

Roger Henderson, Kimley-Horn and Associates

SP-4 Route 202 Community Coordination

Maggie Mund, McCormick, Taylor and Associates, Inc.

SP-5 Reaching Out to Children in Project Development

Stephen F. Nieman, McCormick, Taylor and Associates, Inc.

SP-6 Woodward Avenue Heritage Route

Deborah Schutt, Schutt & Company

SP-7 Koch-Schmoyer Farmstead

Barbara Shaffer, McCormick, Taylor and Associates, Inc.

SP-8 West Corridor Environmental Impact Statement

Brenda Tierney, Regional Transportation District, Denver

SP-9 Regional Transportation District FasTracks Community Outreach

Mike Turner, Regional Transportation District, Denver

SP-10 RTD/COT T-REX-LRT Highway Reconstruction Design-Build

Barbara McClure Schroeder, Parsons Transportation Group, Inc.

SP-11 Community-Oriented Regional Planning Model: CorPlan

Chris Sinclair, Renaissance Planning Group

SP-12 Kelly Parkway Corridor Study

Raquelle R. Wooten and Rudy Rivera, Parsons Brinckerhoff Quade and Douglas, Inc.

SP-13 Clinton Square Redevelopment Project

Laura Toole, Howard/Stein-Hudson Associates

SP-14 State Route 68 Design-Build

Debra R. Brisk, Arizona Department of Transportation

SP-15 I-70 Tier Environmental Impact Statement

Scott Russell, HNTB Corporation

SP-16 South Lawrence Trafficway Environmental Impact Statement

Scott Russell, HNTB Corporation

SP-17 Gaikan Highway Project

Hiromitsu Yajima, Institute of Behavioral Sciences, Japan

SP-18 Trusting Citizens with Public Policy: GRTA Citizens' Advisory

Jamie A. Cochran, Consultant

SP-19 I-5 Beltline Highway Interchange Improvement Project

Jay McRae, CH2M Hill

SP-20 Woodrow Wilson Bridge Project

Norine M. Walker, URS Greiner, Inc.

SP-21 Outreach to Low-Income and Minority Communities for Large Urban Interchange Project

Charlie Webb, CH2M Hill

SP-22 US-301 South Corridor Transportation Study

George W. Walton, Parsons Brinckerhoff Quade and Douglas, Inc.

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Tuesday, January 15, 9:00 a.m.-12:00 a.m., Hilton

Overview of Advanced Geospatial Research, Part 2 (Poster Session) (Part 1, Session 271)

Sponsored by Committee on Spatial Data and Information Systems

HP-1 Positional Accuracy of Global Positioning System and Cell Phone Tracking for Probe Vehicles, (02-4110)

Y.B. Youngbin Yim and Randall Cayford, University of California, Berkeley

HP-2 Object-Oriented Geographic Information System Data Model for Transit Trip Planning System, (02-3753)

Ruihong Huang and Zhong-Ren Peng, University of Wisconsin, Milwaukee

HP-3 Experimental Investigation of Travel Time Estimation Using Georeferenced Aerial Video, (02-3272)

Alejandro Angel and Mark D. Hickman, University of Arizona

HP-4 Matching Global Positioning System Observations to Locations on a Digital Map, (02-3017)

Joshua S. Greenfeld, New Jersey Institute of Technology

HP-5 Temporal Data Constructs for Multidimensional Transportation Geographic Information System Applications, (02-2834)

Nicholas Koncz and Teresa M. Adams, University of Wisconsin, Madison

HP-6 Spatial Data Constructs for Multidimensional Transportation Geographic Information System Applications, (02-2508)

Nicholas Koncz, Teresa M. Adams, and Alan P. Vonderohe, University of Wisconsin, Madison

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Tuesday, January 15, 9:00 a.m.-noon, Hilton

**Developing Transportation Databases on Sustainable Land Use and Environment
(Poster Session)**

Sponsored by Committee on Library and Information Science for Transportation

**HP-7 The Synthesis of Facilitation, Communication, Information, and Technology to
Enhance Public Involvement Through Transportation Resource Exchange Center Website
in Accordance with NEPA Planning and Decision-Making Process: Best Practice, (02-3210)**

Mary Elizabeth White, Nancy A. Bennett, and Judith M Espinosa, Alliance for Transportation
Research Institute

**HP-8 KonSULT: International Knowledgebase on Sustainable Urban Land Use and
Transport, (02-3526)**

Anthony D. May, University of Leeds, United Kingdom

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Tuesday, January 15, 9:00 a.m.-noon, Hilton

Cultural Resource Mitigation: New Ways of Looking at Old Things (Poster Session)

Sponsored by Committee on Historic and Archeological Preservation in Transportation

HP-9 Data Recovery of Gala Site for Route 220 Project, Botetourt County, Virginia

Bradley Bowden, Gray & Pape, Inc.

HP-10 Perspectives on Prehistoric Landscapes: Archaeology at Puncheon Run Site, Kent County, Delaware

Charles H. LeeDecker, Louis Berger Group, Inc.; Kevin W. Cunningham, Delaware Department of Transportation; John Bedell and Robert Jacoby, Louis Berger Group, Inc.

HP-11 Defining Activity Areas Using High-Resolution Data Recovery

Robert Wall and Hope Luhman, Louis Berger Group, Inc.

HP-12 Brook Run, Paleoindian Jasper Quarry: Research-Redesign-Preservation in Place

Eric Voigt, Louis Berger Group, Inc.

HP-13 Salem County New Jersey: Geographic Information System Initiative

Mary S. Alfson, CHRS Inc.

HP-14 Methodology for Every Port: Making Section 106 Match the Project

Ken J. Basilik, CHRS Inc.

HP-15 Archaeology in the Outfield: Pittsburgh Pirates Archaeology

Christine Davis, Christine Daves Consultants Inc.

HP-16 Experimental Archaeology and Archaeological Resource Mitigation

Kristen Beckman, Skelly and Loy, Inc.

HP-17 Pulling It All Together: Regional Prehistoric Settlement Surveys Utilizing Professional and Private Sources--Case Study from Athens, Pennsylvania

John W. Lawrence, David L. Weinberg, and Alan D. Tabachnick, A.D. Marble & Company

HP-18 Bridge over Troubled Waters: Restoring Johnstown's Historic Incline Plane Bridge

Jonathan E. Daily, Karen A. Reese, and Dain Davis, Pennsylvania Department of Transportation

HP-19 Townsend Archaeological Project

Charles Bentz, University of Tennessee; Dan Marcel, No Organization

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Tuesday, January 15, 9:00 a.m.-noon, Hilton

Statewide Planning Issues (Poster Session)

Sponsored by Committee on Statewide Multimodal Transportation Planning

HP-20 Transportation Enabling Smart Growth, (02-2960)

Joe T. Tassone and Feng Liu, Maryland Department of Planning

HP-21 Establishing Peer States for Transportation Performance Comparisons, (02-2417)

Patricia G. Hendren and Debbie A. Niemeier, University of California, Davis

HP-22 Multimodal Travel Choice Modeling: Supernetwork Approach, (02-2948)

Charles Lindveld and R. Van Nes, Delft University of Technology, Netherlands; Michiel Benjamins, DEMIS b.v., Netherlands

HP-23 Pennsylvania's Statewide Long-Range Transportation Plan: Reporting of Achievements 2000, (02-3804)

Konstadinos G. Goulias, Pennsylvania State University; James A. Smedley, Pennsylvania Department of Transportation; Jody R. Fenush, Greg W. Dauber, Tae-Gyu Kim, and Krishnan Viswanathan, Pennsylvania State University

HP-24 Models for Forecasting Urban Transit Ridership for Statewide Analysis, (02-2291)

Arun Chatterjee, William L. Seaver, Vasin Kiattikomol, and Frederick J. Wegmann, University of Tennessee, Knoxville

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Tuesday, January 15, 9:00 a.m.-noon, Hilton

Transportation Demand Management (Poster Session)

Sponsored by Committee on Transportation Demand Management

HP-25 Modeling Employees' Adoption of Proximate Commuting, (02-2053)

Daniel A. Rodriguez, University of North Carolina, Chapel Hill

HP-26 Effect of Employment Site Characteristics on Commute Mode Choice, (02-2358)

Yoram Shiftan, Technion - Israel Institute of Technology; Yotam Barlach, Perlstein Galit Ltd., Israel

HP-27 Online Transportation Demand Management Encyclopedia: Practical Tool for Identifying Innovative Solutions to Transportation Problems, (02-2888)

Todd A. Litman, Victoria Transport Policy Institute, Canada

HP-28 Tracking Duration of New Commute Modes as a Result of Service from Ridesharing Agency: Longitudinal Study, (02-3294)

Ginna Smith and Steve Beroldo, RIDES for Bay Area Commuters, Inc.

HP-29 Commuter Choice Benefits Calculator: Web-Based Tool for Estimating Costs and Benefits of Commuter Programs, (02-3818)

Michael D. Grant, ICF Consulting; Erik William Herzog, Environmental Protection Agency

HP-30 Leading Southern California Transportation Demand Management Employer Programs, (02-4066)

Patricia S. Price, Southern California Association of Governments

HP-31 PAMELA: Parking Analysis Model for Predicting Effects in Local Areas, (02-2078)

Peter van der Waerden, Harry Timmermans, and Aloys Borgers, Eindhoven University of Technology, Netherlands

HP-32 Results and Lessons from Seattle's Comprehensive Neighborhood Parking Study, (02-3886)

Mary Catherine Snyder, City of Seattle, Washington

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Tuesday, January 15, 10:00 a.m.-noon, Hilton

Performance Measurement

Lance A. Neumann, Cambridge Systematics, Inc., presiding

Sponsored by Committee on Transportation Programming, Planning, and Systems Evaluation

Measuring System Performance: Key to Establishing Operations, (02-4085)

Michael D. Meyer, Georgia Institute of Technology

Methodology for Analyzing Mobility Levels: What We Learned in Grand Junction, Colorado, (02-2977)

David Schrank, Texas Transportation Institute; Tim Baker, Colorado Department of Transportation

Macrolevel Analysis of Factors Related to Areawide Highway Traffic Congestion, (02-2219)

Elisabeth Hahn, Wilbur Smith Associates; Arun Chatterjee and Mary Sue Younger Younger, University of Tennessee, Knoxville

Contrasting Use of Time-Based and Distance-Based Measures to Quantify Traffic Congestion Levels: Analysis of New Jersey Counties, (02-3929)

Robert Roland Joseph d'Abadie and Theodore F. Ehrlich, Urbitran Associates, Inc.

Perspectives on Efficiency in Transportation, (02-2015)

David M. Levinson, University of Minnesota

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Tuesday, January 15, 10:15 a.m.-noon, Marriott

Performance Tests for Asphalt Mixtures, Part 2 (Part 1, Session 300)

William G. Buttlar, University of Illinois, Urbana-Champaign, presiding

Sponsored by Committee on Characteristics of Bituminous Paving Mixtures To Meet Structural Requirements

Use of Stiffness of Hot-Mix Asphalt as Simple Performance Test, (02-2505)

Terhi Kristiina Pellinen, Purdue University; Matthew W. Witzczak, Arizona State University

Simple Performance Test for Permanent Deformation of Asphalt Mixtures, (02-2884)

Kamil E Kaloush and Matthew W. Witzczak, Arizona State University

Comparison of Fundamental and Simulative Test Methods for Evaluating Permanent Deformation of Hot-Mix Asphalt, (02-3107)

Jingna Zhang, Allen Cooley, and Prithvi S. Kandhal, National Center for Asphalt Technology

Rutting Potential Evaluation of Asphalt Mixtures by Repeated-Load Creep Test, (02-2361)

L Y Zhu, Tien F. Fwa, and Y Liu, National University of Singapore

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Tuesday, January 15, 10:15 a.m.-noon, Marriott

Operational Considerations in Design of Arterials

James L. Gattis, University of Arkansas, presiding

Sponsored by Committee on Operational Effects of Geometrics

Comparison of Simulated Average Arterial Travel Speeds Along Four-Lane Undivided and Three-Lane Roadways with Similar Traffic Flow and Access Density Characteristics, (02-3214)

Keith K Knapp, University of Wisconsin; Karen L. Giese, Kittelson & Associates, Inc.;
Thomas M. Welch, Iowa Department of Transportation

Operational Effects of U-Turns as Alternatives to Direct Left Turns from Driveways, (02-2864)

Hua-Guo Zhou, J. John Lu, Xiao Kuan Yang, Sunanda Dissanayake, and Kristine M.
Williams, University of South Florida

Intervehicle Spacings and Queue Characteristics, (02-3953)

Gary Long, University of Florida

Comparison Between Grade-Separated Arterial Intersection Designs, (02-3824)

Jonathan David Reid, Parsons Brinckerhoff, Inc.; Joseph E. Hummer, North Carolina State
University; Matthew R Davis, Parsons Brinckerhoff, Inc.

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Tuesday, January 15, 10:15 a.m.-noon, Marriott

Cost Issues and Bridge Management Systems

Arunprakash M. Shirole, National Steel Bridge Alliance, presiding

Sponsored by Committee on Bridge Management Systems

Estimating Agency Cost of Maintenance, Repair, and Rehabilitation for Florida Bridges, (02-3772)

John O. Sobanjo, FAMU-FSU College of Engineering; Paul D. Thompson, Consultants;
Mathew Lewis, URS Corporation; Richard Kerr, Florida Department of Transportation

Integration of Agency Rules with Preservation Optimization Model in Pontis Bridge Management System, (02-4126)

William Robert, Allen Marshall, and Sandi Lin, Cambridge Systematics, Inc.; Richard W.
Shepard, California Department of Transportation; Jose Aldayuz, American Association of
State Highway and Transportation Officials

Estimating Infrastructure Transition Probabilities Using Stochastic Duration Models, (02-3630)

Rabi G. Mishalani, Ohio State University; Samer M. Madanat, University of California,
Berkeley

Infrastructure Management in Venezuela

Hugh Hawk, Delcan Corporation, Canada

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Tuesday, January 15, 10:15 a.m.-noon, Marriott

Concrete Pavement Technology Program, Part 2 (Part 1, Session 303)

Robert J. Betsold, Innovative Pavement Research Foundation, presiding

Sponsored by Committee for Research on Improved Concrete Pavement for Federal-Aid Highways

Federal Highway Administration's Mobile Concrete Lab and Nondestructive Testing Workshop

Gary Crawford, Federal Highway Administration

Update on Federal Highway Administration's HIPERPAV I and II

Robert Otto Rasmussen, The Transtec Group, Inc.

Concrete Materials Projects at Turner-Fairbank Highway Research Center Labs

Marcia Simon, Federal Highway Administration

Long-Term Plan for Concrete Pavement RD&T

Dale Harrington, Iowa State University; Ted R. Ferragut, TDC Partners

Session Summary and Closure

Stephen W. Forster, Federal Highway Administration

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Tuesday, January 15, 10:15 a.m.-noon, Marriott

Deep Soil Mixing

Thomas L. Cooling, URS Corporation, presiding

Sponsored by Committee on Transportation Earthworks

Overview of Deep Mixing Methods: Highlights of Recent Federal Highway Administration Publications

Donald A. Bruce, Eco Geosystems, L.P.

State-of-the-Practice Review of Deep Soil Mixing Techniques in China, (02-3171)

Jie Han, Widener University; Hong-Tao Zhou, Shenzhen Geotechnical Investigation Institute, China; Fen Ye, Tongji University, China

Compound Deep Soil Mixing Pile Used as Retaining Structures in Excavations, (02-2604)

Yong C. Shao, Tensar Earth Technologies, Inc.; Emir Jose Macari, Louisiana State University; Weiming Cai, Tongji University, China

Performance of Lime Cement Stabilized Soils for I-15 Reconstruction Project, Salt Lake City, Utah, (02-3314)

Steven Bartlett, University of Utah; Clifton Farnsworth, Utah Department of Transportation

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Tuesday, January 15, 10:15 a.m.-noon, Marriott

Vegetation Management and Roadside Safety

Joseph S. Demko, Pennsylvania Department of Transportation, presiding

Sponsored by Committee on Roadside Maintenance

Soil Bioengineering as an Alternative for Roadside Management, (02-2101)

Shannon Hagen, Marlies Wierenga, Sandra Salisbury, and George Christopher Xu,
Washington State Department of Transportation

Toward Safer Highways: Use of Treebelts as a Tool for Accident Mitigation and Reduction

William M. Cross, Illinois College

Identifying and Managing Hazardous Trees Along Urbanized Highway System

Kevin Munley, Pennsylvania Department of Transportation

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Tuesday, January 15, 10:15 a.m.-noon, Marriott

Progress in Passenger Guided Ground System Safety and Efficiency

Robert M. Dorer, Volpe National Transportation Systems Center, presiding

Sponsored by Committee on Guided Intercity Passenger Transportation

Evaluation of Passenger Rail Equipment Crashworthiness Strategies

David Tyrell, Volpe National Transportation Systems Center; A. Benjamin Perlman, Tufts
University

Implementation of Crash Energy Management in Rail Passenger Equipment

Ron Mayville, Arthur D. Little, Inc.

Fixed-Guideway Technology Modes To Be Considered When Evaluating Alternatives Under NEPA

Mark C. Walbrun, Transystems Corporation

Retrofit of Diesel Locomotive with Twin Gas Turbines to Achieve Minimum Particulate Emissions and Lower Overall Emissions with Diesel #2 or Liquefied Natural Gas Fuel, (02-3249)

Jerome Roland Pier, J. R. Pier & Associates, Canada

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Tuesday, January 15, 10:15 a.m.-noon, Marriott

New MUTCD and Other "Cookbooks": Potential Recipes for Disaster

Brelend C. Gowan, California Department of Transportation, presiding

Sponsored by Committee on Tort Liability and Risk Management

Avoiding Mistakes in Drafting Documents like the MUTCD That Can Create Liability Nightmares to Defend

Vicky S. Johnson, Kansas Department of Transportation

New MUTCD: How Committees Draft These Types of Documents and Role of Liability Concerns and Reviews in the Process

James L. Pline, Pline Engineering, Inc.

New MUTCD: Some Liability Concerns Just Jump Right Out at You!

Jay L. Smith, Missouri Highway and Transportation Commission

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Tuesday, January 15, 10:15 a.m.-noon, Marriott

Advancing Highway Safety: International, National, and State and Local Perspectives

Frederick "Bud" Wright, Federal Highway Administration, presiding

Sponsored by Committee on Transportation Safety Management

International Experience

Terrence D. Mulcahy, Wisconsin Department of Transportation

Roadway Safety R&D Highlights

Michael F. Trentacoste, Federal Highway Administration

Future Safety R&T Initiatives

Leanna Depue, Central Missouri State University; David K. Willis, AAA Foundation for Traffic Safety

Implementing Traffic Safety Programs

Rose McMurray, National Highway Traffic Safety Administration

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Tuesday, January 15, 10:15 a.m.-noon, Marriott

Simulation and Driver Behavior

Ronald R. Mourant, Northeastern University, presiding

Sponsored by Committee on Simulation and Measurement of Vehicle and Operator Performance

Driver Oversteer and Directional Control Loss: Physical Fundamentals and Transportation Safety Applications, (02-4017)

Daniel J. Melcher, Zook, Moore and Associates, Inc

Modeling the Dynamic Cut-In Situation, (02-3009)

Beshr Sultan, Mark A. Brackstone, and Ben Waterson, University of Southampton, United Kingdom; Erwin Boer, Wingcast

Integrating Driving Simulators and Microsimulation Models: A Conceptualization, (02-3884)

Jacqueline Marie Jenkins, Texas A&M University; Laurence R. Rilett, Texas A&M University System

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Tuesday, January 15, 10:15 a.m.-noon, Marriott

Performance and Economics of Rail and Tie Fastening Systems in Heavy Haul Track

David A. Connell, Union Pacific Railroad, presiding

Sponsored by Committee on Railroad Track Structure System Design

Reducing the Stress State in Conventional Cut Spike Fastening Systems

Randy Bowman, Norfolk Southern Railway Company

Class I's Experiences with Implementing Elastic Fasteners on Wood Ties in Heavy Haul Track

Rod Keefe, CSX Transportation, Inc.; Edward Kohake, Union Pacific Railroad Company

Tie Fastener Performance Under Heavy Axle Loads at Facility for Accelerated Service Testing

David Davis, Transportation Technology Center, Inc.

Economic Impact of Heavy Axle Loads on Tie Fastener Performance

Carl D. Martland, Massachusetts Institute of Technology

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Tuesday, January 15, 10:15 a.m.-noon, Marriott

Landslide Risk and Hazard Assessment

Herbert H. Einstein, Massachusetts Institute of Technology, presiding

Sponsored by Committee on Engineering Geology

Geographic Information System and New Hampshire Rock Cut Inventory, (02-2775)

Marc F. Fish and Richard M. Lane, New Hampshire Department of Transportation

New York State Department of Transportation Rockfall Hazard and Risk Assessment, (02-3978)

Douglas James Hadjin, New York State Department of Transportation

Rockfall Hazard Rating: North Carolina Department of Transportation Reexamines an Abandoned Project, (02-3773)

Jody Kuhne, North Carolina Department of Transportation

Quantitative Risk Assessment for Landslides, (02-3900)

William John Roberds, Golder Associates, Inc.

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Tuesday, January 15, 10:15 a.m.-noon, Marriott

Timber Bridge Construction

Jai B. Kim, Bucknell University, presiding

Sponsored by Committee on Construction of Bridges and Structures

Development of High-Performance Timber Bridges in Australia, (02-4109)

Keith Ian Crews, University of Technology, Sydney, Australia

One New Timber Road Bridge in Zagreb, (02-3653)

Miljenko Haiman, University of Zagreb, Croatia

Nordic Timber Bridge Project and Norwegian Approach to Modern Timber Bridge Design, (02-3071)

Otto Kleppe and Tormod Dyken, Norwegian Public Roads Administration

Design and Construction of Pedestrian Bridge over Bull Run Creek for Borough of Lewisburg

Linda Steele, LSC Design, Inc.

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Tuesday, January 15, 10:15 a.m.-noon, Shoreham

Concrete Pavement Response to Loading and Roughness

David W. Pittman, U.S. Army Corps of Engineers, presiding

Sponsored by Committee on Rigid Pavement Design

Dynamic Stress Response of Concrete Pavements to Moving Tandem-Axle Loads, (02-2082)

Seong-Min Kim, University of Texas, Austin; Moon C. Won, Texas Department of Transportation; B. Frank McCullough, University of Texas, Austin

Development of Precast Prestressed Concrete Pavement near Georgetown, Texas, (02-3708)

David K Merritt, Center for Transportation Research; B. Frank McCullough and Ned H. Burns, University of Texas, Austin

Factors Affecting Rapid Roughness Progression on Portland Cement Concrete Pavements in Kansas, (02-3125)

Mahmuda Akhter, Kansas State University; William H. Parcells, Kansas Department of Transportation; Mustaque Hossain and John Boyer, Kansas State University

Variability of Concrete Pavement Load Transfer Efficiency Data, (02-2448)

Chung-Lung Wu and Shiraz D. Tayabji, Construction Technology Laboratories, Inc.

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Tuesday, January 15, 10:15 a.m.-noon, Shoreham

Diaphragms in Concrete Bridges

Maher K. Tadros, University of Nebraska, Lincoln, presiding

Sponsored by Committee on Concrete Bridges

New Details for Precast Concrete Girders Made Continuous for Deck Weight, (02-3666)

Chuanbinbg Sun, Sameh S. Badie, and Maher K. Tadros, University of Nebraska, Omaha

Intermediate Diaphragm Effects on Concrete Bridge Performance, (02-3627)

Nur Yazdani and Tanya M Green, Florida A&M University - Florida State University; Sheila R. Duwadi, Federal Highway Administration

Practices for Pier and Intermediate Diaphragms of Precast Concrete Girder Bridges, (02-3621)

Chung C Fu and Tarek Kudsi, University of Maryland, College Park; Jeff Robert, Maryland State Highway Administration

Effect of Diaphragms on Load Distribution of Prestressed Concrete Bridges, (02-2246)

Chun Cai, Louisiana State University; Mohsen Shahawy, Structures Design and Rehabilitation; Robert J. Peterman, Kansas State University

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Tuesday, January 15, 10:15 a.m.-noon, Shoreham

Freight Issues, Needs, and Responses: A Decade of Experience After ISTEA, Part 2: Assessing Freight System Needs (Part 1, Session 315; Part 3, Session 400; Part 4, Session 437; Part 5, Session 513; Part 6, Session 551)

Harry B. Caldwell, Federal Highway Administration, presiding

Sponsored by Committee on Urban Freight Transportation; Committee on Intermodal Freight Transport; Committee on Freight Transportation Data; Committee on Intergovernmental Relations and Policy Processes; and Committee on Freight Transportation Planning and Logistics

U.S. Chamber of Commerce Study on Effects of International Trade on Transportation Capacity

Gregori Lebedev, U.S. Chamber of Commerce

Orlando Metroplan Freight, Goods, and Services Study

Dennis Hooker, Metroplan Orlando

State Assessment of Freight Needs

John C. Horsley, American Association of State Highway and Transportation Officials

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Tuesday, January 15, 10:15 a.m.-noon, Shoreham

Challenges in Highway, Bridge, and Tunnel Security: Case Studies

Anthony R. Kane, American Association of State Highway and Transportation Officials, presiding

Sponsored by Task Force on Critical Transportation Infrastructure Security

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Tuesday, January 15, 10:15 a.m.-noon, Shoreham

New Research in Airfield-Airspace Systems and Technologies, Part 2 (Part 1, Session 318)

Amr ElSawy, MITRE Corporation, presiding

Sponsored by Committee on Airfield and Airspace Capacity and Delay and Committee on Light Commercial and General Aviation

Panel Discussion

Charles Huettner, Office of Science and Technology Policy; Robert Jacobsen, National Aeronautics and Space Administration; Charles Keegan, Federal Aviation Administration; William Leber, Northwest Airlines

360

Tuesday, January 15, 10:15 a.m.-noon, Shoreham

Driver Workload and Distraction

Thomas A. Ranney, National Transportation Research Center, presiding

Sponsored by Committee on Vehicle User Characteristics

Assessment of Handheld Cellular Telephone Use on Dallas County, Texas, Freeways, (02-3250)

Jason Aaron Crawford, Texas Transportation Institute

Effects of Practice with Auditory Distraction on Simulated Driving, (02-3783)

David Shinar and Noam Tractinsky, Ben Gurion University of the Negev, Israel; Richard P. Compton, National Highway Traffic Safety Administration

Work- and Sleep-Related Predictors of Subjective On-Duty Alertness in Irregular Work Schedules, (02-3027)

June J. Pilcher, Clemson University; Jennifer Anderson and Gina Edwards, Bradley University; Michael K. Coplen, Federal Railroad Administration

Effects of Load of Working Memory on Reproduction Performance of Memorized Information During Driving, (02-3464)

Toru Hagiwara, Koji Nakagawa, and Ken'etsu Uchida, Hokkaido University, Japan; Takeo Adachi, Sensyu College, Japan; Seiichi Kagaya, Hokkaido University, Japan

361

Tuesday, January 15, 10:15 a.m.-noon, Hilton

What Is the Future for High-Occupancy-Vehicle Lanes?

David Schumacher, San Diego Metropolitan Transit Development Board, presiding

Sponsored by Committee on High-Occupancy Vehicle Systems

High-Occupancy-Vehicle Facility Development: Review of National Trends, (02-3922)

Charles Fuhs, Parsons Brinckerhoff, Inc.

Panel Discussion

Charles Fuhs, Parsons Brinckerhoff, Inc.; Donald G. Capelle, Consultant; Ginger Daniels, Texas Transportation Institute; Kenneth Orski, Urban Mobility Corporation; Katherine F. Turnbull, Texas A&M University System

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Tuesday, January 15, 10:15 a.m.-noon, Hilton

Symposium on Transportation and Sustainability, Part 2: International Examples of Public and Private Cooperation (Part 1, Session 321; Part 3, Session 390; Part 4, Session 427; Part 5, Session 460)

Kevin E. Heanue, Consultant, presiding

Sponsored by Task Force on Transportation and Sustainability; Committee on Transportation Energy; and Committee on Alternative Transportation Fuels

HP-1 Panel on World Business Council Sustainability Project: Program Overview, Mobility 2001 Assessment Report, and Planned Activities

Lewis Dale, General Motors Corporation; George Eads, Charles River Associates, Inc.; David Marks and Daniel Roos, Massachusetts Institute of Technology; Deborah Zemke, Ford Motor Company

HP-2 Toward Sustainable Urban Transport and Land Use Strategies: Review of Current European Research, (02-3546)

Anthony D. May, University of Leeds, United Kingdom

HP-3 Sustainable Urban Transport in the 21st Century, (02-3527)

Lee J. Schipper, International Energy Agency, France

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Tuesday, January 15, 10:15 a.m.-noon, Hilton

Road Safety: A Women's Health Issue

Elizabeth A. Baker, National Highway Traffic Safety Administration, presiding

Sponsored by Committee on Women's Issues in Transportation

Road Safety: A Women's Health Issue

Christine M. Branche, Centers for Disease Control and Prevention; Kenneth H. Beck, University of Maryland; Liisa Hakamies-Blomquist, University of Helsinki, Finland

364

Tuesday, January 15, 10:15 a.m.-noon, Hilton

Rail Transit Capacity

Samuel L. Zimmerman, Daniel, Mann, Johnson & Mendenhall, presiding

Sponsored by Task Force on Transit Capacity and Quality of Service

Computing Rail Transit Station Dwell Times and Effects of Vehicle Factors on Capacity: WMATA Metrorail Core Capacity Study

Osama A. Tomeh, Booz, Allen & Hamilton, Inc.

Effects of Track Configuration and Signal System on Rail Transit Capacity: Case of New York City Transit's Queens Connection

Brian Sterman, Federal Transit Administration; Shelley Fialkoff, DMJM + Harris; Norm Silverman, New York City Transit

Effects of Service Configuration on Rail Capacity

Peter Fahrenwald, Chicago Transit Authority; Vukan R. Vuchic, University of Pennsylvania; Herbert S. Levinson, Consultant

365

Tuesday, January 15, 10:15 a.m.-noon, Hilton

Environmental Stewardship

James G. Bach, Louis Berger & Associates, Inc., presiding

Sponsored by Committee on Environmental Analysis in Transportation

Comprehensive Mitigation And Enhancement Strategy, Leads To Environmental Road Corridor, (02-3181)

John J. Wills, Christopher B. Burke Engineering West, Ltd.

Environmental Stewardship and ESA Section 7 Streamlining via a Habitat Approach to Multi-Species Advance Mitigation on the 20 Year Plan: CDOT's Shortgrass Prairie Initiative, (02-3904)

Marie Venner, Colorado Department of Transportation

Promoting Environmental Stewardship in Transportation Maintenance and Operations in New York State Department of Transportation, (02-2811)

Debra A. Nelson, Gary R. McVoy, and Laura Greninger, New York State Department of Transportation

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Tuesday, January 15, 10:15 a.m.-noon, Hilton

Reauthorization for Tribal Transportation Needs

Richard A. Rolland, Eastern Washington University, presiding

Sponsored by Committee on Native American Transportation Issue

Panel Discussion

Antone Minthorn, Confederated Tribes of the Umatilla Indian Reservation; Leroy Gishi, Bureau of Indian Affairs; James Garrigan, Red Lake Nation

367

Tuesday, January 15, 10:15 a.m.-noon, Hilton

Accessible Transportation and Mobility: International Perspectives

Sandra Rosenbloom, University of Arizona, presiding

Sponsored by Committee on Accessible Transportation and Mobility

Progress in Meeting Mobility Needs of Disabled and Elderly in Light of Results of TRANSED 2001 Conference, (02-2645)

Wojciech Jozef Suchorzewski, Warsaw University of Technology, Poland

Research on Intelligent Transportation Systems for Pedestrians

Yuji Ikeda, Ministry of Land, Infrastructure and Transport, Japan

Design of Urban Infrastructure for Accessible Buses and Streetcars

Maryvonne Dejeammes, CERTU, France

Where to from Here? Possible Scenarios and Expectations

Lalita Sen, Texas Southern University

Vision for the Future

Ann Frye, Department of Transport, United Kingdom

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Tuesday, January 15, 10:15 a.m.-noon, Hilton

Autonomous Dial-a-Ride Transit Research and Development

Linda Watson, Corpus Christi Regional Transportation Authority, presiding

Sponsored by Committee on Paratransit

Corpus Christi Regional Transportation Authority ADART Project

Linda Watson, Corpus Christi Regional Transportation Authority

Introduction

Edward Lamar Thomas, Federal Transit Administration

ADART Software: Architecture, Features, and Algorithms

Robert B. Dial, Volpe National Transportation Systems Center

ADART Software: Simulation Demonstration

Robert E. Johnson, TecMasters, Inc.

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Tuesday, January 15, 10:15 a.m.-noon, Hilton

Issues in Transit Priority

Peter J. V. Koonce, Kittelson & Associates, Inc., presiding

Sponsored by Committee on Traffic Signal Systems

Evaluation of Transit Priority Benefits Along Fixed-Time Controlled Arterial, (02-2137)

Francois Dion, Hesham A. Rakha, and Yihua Zhang, Virginia Polytechnic Institute and State University

Quantifying Delay Reduction to Buses with Signal Priority Treatment in Mixed-Mode Operation, (02-2659)

Wei-Hua Lin, University of Arizona

Evaluation of Transit Signal Priority Strategies for Small- to Medium-Sized Cities, (02-3829)

Kiel R Ova and Ayman Smadi, Upper Great Plains Institute

Bus Priority with Highly Interruptable Traffic Signal Control: Simulation of San Juan's Avenida Ponce de Leon, (02-3930)

Melanie Janos and Peter G. Furth, Northeastern University

370

Tuesday, January 15, 10:15 a.m.-noon, Hilton

Bus Rapid Transit Vehicle Design Competition

Edward Lamar Thomas, Federal Transit Administration, presiding

Sponsored by Section on Public Transportation

Four bus rapid transit designs for high-capacity buses could help to relieve congestion and crowding in many cities. The new-style buses demonstrate how imaginative approaches to transit can be integrated into established bus systems.

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Tuesday, January 15, 10:15 a.m.-noon, Hilton

21st Century Operations: Report from European Scanning Tour

Thomas R. Warne, Tom Warne Associates, L.L.C., presiding

Sponsored by Division A Council, Technical Activities

Scan Overview

Jeffrey A. Lindley, Federal Highway Administration

What Was Learned: State Perspective

David A. Zavattero, Illinois Department of Transportation

What Was Learned: City Perspective

Andrea d'Amato, City of Boston

What Was Learned: Regional Perspective

Matthew Edelman, TRANSCOM

Implementation Plan: What's Next?

Melisa L. Ridenour, Federal Highway Administration

Tuesday, January 15, Noon-3:15 p.m., Hilton

Women's Issues in Transportation: Roundtable Discussion

Gloria Jeff, Parsons Brinckerhoff Quade and Douglas, Inc., presiding

Sponsored by Committee on Women's Issues in Transportation

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Marriott

General Asphalt Pavement Construction Issues

Freddy L. Roberts, Louisiana Technical University, presiding

Sponsored by Committee on Flexible Pavement Construction and Rehabilitation

Construction-Related Asphalt Concrete Pavement Temperature and Density Differentials, (02-2263)

Kim A. Willoughby, Washington State Department of Transportation; Joe P. Mahoney, University of Washington; Linda M. Pierce, Jeff S. Uhlmeier, and Keith W. Anderson, Washington State Department of Transportation

Detecting Segregation in Bituminous Pavements, (02-2634)

Chieh-Min Chang, Alfred Benesch & Company; Gilbert Y. Baladi and Thomas F. Wolff, Michigan State University

Evaluation of Eight Longitudinal Joint Construction Techniques for Asphalt Pavements in Pennsylvania, (02-2451)

Prithvi S. Kandhal, National Center for Asphalt Technology; Timothy Ramirez and Paul M. Ingram, Pennsylvania Department of Transportation

Determination of Moisture in Hot-Mix Asphalt and Relationship with Tender Mix Behavior in the Laboratory, (02-3754)

R. Michael Anderson, Asphalt Institute; Gerald Huber, Heritage Research Group; Robert L. Peterson, Asphalt Institute; James A. Scherocman, Consultant; John D'Angelo, Federal Highway Administration; Mark S. Buncher, Asphalt Institute

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Marriott

State of the Art in Dynamic Traffic Assignment Modeling for Network Operations Planning, Part 1 (Part 2, Session 409)

Raj S. Ghaman, Federal Highway Administration, presiding

Sponsored by Committee on Traffic Flow Theory and Characteristics

Development of Traffic Estimation and Prediction Systems for Operations Planning

Henry C. Lieu, Federal Highway Administration

Operational Planning with Simulation-Based Dynamic Traffic Assignment: Features, Input-Output, Applications, and Calibration

Hani S. Mahmassani, University of Texas, Austin

Operational Planning with Simulation-Based Dynamic Traffic Assignment: Mesoscopic Supply Simulation

Haris N. Koutsopoulos, Volpe National Transportation Systems Center; Moshe E. Ben-Akiva, Massachusetts Institute of Technology

Operational Planning with Simulation-Based Dynamic Traffic Assignment: Estimation of Origin-Destination Flows and Microsimulation of Demand

Moshe E. Ben-Akiva, Massachusetts Institute of Technology

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**Tuesday, January 15, 1:30 p.m.-3:15 p.m., Marriott
Railroad-Highway Crossing for 2002, Part 1 (Part 2, Session 410)**

Ronald W. Eck, West Virginia University, presiding

Sponsored by Committee on Railroad-Highway Grade Crossings

Preliminary Evaluation of School Street Four-Quadrant Gate Highway-Railroad Grade Crossing, (02-4135)

Adrian D Hellman and Anya A. Carroll, U.S. Department of Transportation

Use of Photo Enforcement at Highway-Railroad Grade Crossings in the United States, (02-2517)

Anya A. Carroll and Judith D. Warren, U.S. Department of Transportation

North Carolina Sealed Corridor Phase I Safety Assessment, (02-2513)

Anya A. Carroll, U.S. Department of Transportation; Marsha Haines, EG&G Technical Services

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**Tuesday, January 15, 1:30 p.m.-3:15 p.m., Marriott
Red-Light Enforcement Research**

Jerry G. Pigman, University of Kentucky, presiding

Sponsored by Committee on Traffic Law Enforcement

Assessment of Red-Light Running Camera Enforcement Technologies, (02-2728)

Virginia P. Sisiopiku, Xuesong Zhang, and Janet J. Elwart, Michigan State University

Reductions in Crashes Associated with Red-Light Camera Enforcement, (02-3538)

Richard A. Retting and Sergey Kyrychenko, Insurance Institute for Highway Safety

Can Red-Light Running Be Monitored Using Video Detection?, (02-2261)

Lakshmikanth Reddy Naredla and Andrzej P. Tarko, Purdue University

Development of Red-Light Violation Data Collection Tool, (02-3714)

Scott S. Washburn and Kenneth G. Courage, University of Florida; Shaun MacKenzie, Kimley-Horn and Associates

Scope and Impact of Red-Light Running in Iowa, (02-2057)

Ali R. Kamyab and Tom McDonald, Iowa State University; Jason J. Stribiak, PB Farradyne, Inc.

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Marriott

Geotechnical Investigation for Trenchless Technologies

Jeffrey R. Keaton, AMEC Earth & Environmental, Inc., presiding

Sponsored by Committee on Exploration and Classification of Earth Materials

Potential Geotechnical Problems with Trenchless Technologies and Their Solutions

James C. Thomson, Jason Consultants International

Issues in Trenchless Technologies from a Geotechnical Perspective

Kevin G. Sutterer, Rose-Hulman Institute of Technology

Geotechnical Issues in Trenchless Technologies from a Research Perspective

Mohammad Najafi, University of Missouri, Columbia

Panel and Audience Discussion

James C. Thomson, Jason Consultants International; Kevin G. Sutterer, Rose-Hulman Institute of Technology; Mohammad Najafi, University of Missouri, Columbia

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Marriott

Characteristics of Durable and Nondurable Concrete: Case Studies

Shondeep L. Sarkar, Texas Transportation Institute, presiding

Sponsored by Committee on Durability of Concrete

Mix Parameters Controlling Extended Freeze-Thaw Durability of Concrete Containing Cementitious Additives, (02-2288)

Steven M. Cramer, University of Wisconsin, Madison

Investigations into Durability of Ternary Blend Concrete: Laboratory and Outdoor Exposure Site Studies, (02-3879)

Bleszynski Fabian Roland, Doug Hooton, and Michael D.A. Thomas, University of Toronto, Canada; Chris Rogers, Ontario Ministry of Transportation, Canada

Investigation into Premature Deterioration of Concrete on USTH 169, (02-3998)

Prasad Rangaraju, Clemson University

Fatigue Damage in Roller-Compacted Pavement Foundation with Recycled Aggregate and Waste High-Density Polyethylene Strips, (02-3801)

Khaled Sobhan, New Mexico State University

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Marriott

Testing, Specifications, and Modeling of Corrosion in Concrete Structures

John Philip Broomfield, Broomfield Consultants, United Kingdom, presiding

Sponsored by Committee on Corrosion

Testing Calcium Nitrite Corrosion Inhibitor in Concrete: North Carolina Department of Transportation's Experience, (02-2191)

William M. Medford, North Carolina Department of Transportation

Field Assessment of Linear Cracking of Concrete Bridge Decks and Chloride Penetration, (02-3654)

Richard Edwin Weyers, Michael C. Brown, Trevor J. Kirkpatrick, Ryan Michael Weyers, and David D. Mokarem, Virginia Polytechnic Institute and State University; Michael M. Sprinkel, Virginia Transportation Research Council

Impact of Specification Changes on Chloride-Induced Corrosion, (02-2334)

Trevor J. Kirkpatrick and Richard Edwin Weyers, Virginia Polytechnic Institute and State University; Michael M. Sprinkel, Virginia Transportation Research Council; Christine M. Anderson-Cook, Virginia Polytechnic Institute and State University

Probabilistic Model for Chloride-Induced Corrosion Service Life of Bridge Decks, (02-2331)

Trevor J. Kirkpatrick, Richard Edwin Weyers, and Christine M. Anderson-Cook, Virginia Polytechnic Institute and State University; Michael M. Sprinkel, Virginia Transportation Research Council

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Marriott

Advances in Bridge Evaluation, Maintenance, and Repair Activities

Wallace T. McKeel Jr., Virginia Transportation Research Council, presiding

Sponsored by Committee on Structures Maintenance

Advanced Inspection Technology for Deterioration of Expressway Concrete Structures: Nondestructive Inspection Technology, (02-3456)

Tsuneo Kato, Japan Highway Public Corporation

Kentucky Transportation Cabinet Moves Its Bridge Painting Operations into the Twenty-First Century, (02-2944)

Theodore Hopewood II, University of Kentucky; Bobby W Meade, Kentucky Transportation Cabinet; Sudhir Palle, University of Kentucky

Update on Bridge Deck Joint Performance Synthesis

Ronald L. Purvis, Cambridge Systematics, Inc.

Effect of Concrete Removal Methods and Equipment on Remaining Bridge Deck Condition

Michael M. Sprinkel, Virginia Transportation Research Council

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Marriott

Instrumentation to Monitor Moisture and Freezing Effects in Soils

Thomas C. Sandford, University of Maine, presiding

Sponsored by Committee on Soils and Rock Instrumentation and Committee on Frost Action

Backcalculation of Thermal Conductivity of Tire Chips from Instrumented Test Section, (02-3860)

Dana N. Humphrey, University of Maine; Andrew J. Fiske, Geotechnical Services, Inc.;
Robert A. Eaton, U.S. Army Corps of Engineers

Soil-Nail Forces Caused by Frost, (02-3222)

Don W. Kingsbury, Malcolm Drilling Co. Inc.; Thomas C. Sandford and Dana N. Humphrey,
University of Maine

Innovative Soil Moisture Probe for In Situ Subsurface Investigations, (02-3707)

Gayle F. Mitchell, Ohio University; James Shinn, Applied Research Associates, Inc.; Kwame
Adu-Gyamfi, Ohio University

Percostation for Real-Time Monitoring of Moisture Variations, Frost Depth, and Spring Thaw Weakening, (02-3021)

Timo Pekka Saarenketo, Roadscanners, Finland; Pauli Kolisoja, Tampere University of
Technology, Finland; Kalevi Luiro, Finnish National Road Administration; Pekka Maijala,
Roadscanners, Finland; Nuutti Vuorimies, Tampere University of Technology, Finland

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Marriott

Concrete Segmental Bridge Construction

James J. Hill, Consultant, presiding

Sponsored by Committee on Construction of Bridges and Structures

Design and Construction of Smart Road over Wilson Creek, (02-3117)

Amy Kohls Karas, Figg Bridge Engineers, Inc.

Grouting of Segmental Posttensioned Bridges in America, (02-2839)

Brett Howard Pielstick, Parsons Transportation Group, Inc.

Concrete Segmental Bridge Movements, (02-3386)

J. Leroy Hulsey, University of Alaska; Rufus Bunch, Aurora Energy, LLC

Innovations Used to Build the Longest Precast Segmental Bridge in America: JFK Light Rail System, (02-2833)

Brice Urquhart, Figg Bridge Inspection, Inc.

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Shoreham

Ultrathin Whitetopping Developments

Shiraz D. Tayabji, Construction Technology Laboratories, Inc., presiding

Sponsored by Committee on Pavement Rehabilitation

Repairing Ultrathin Whitetopping: Minnesota Experience, (02-4032)

Julie M. Vandenbossche and Aaron James Fagerness, Minnesota Department of Transportation

Testing and Performance Evaluation of Ultrathin Whitetopping Pavements at Spirit of St. Louis Airport, (02-2989)

Chung-Lung Wu and Matthew Sheehan, Construction Technology Laboratories, Inc.

Curling Stress in Concrete Slab of Ultrathin Whitetopping Structure, (02-2922)

Tatsuo Nishizawa, Ishikawa National College of Technology, Japan; Yoshiki Murata, Japan Cement Association; Tatsunori Nakagawa, Ishikawa National College of Technology, Japan

Delamination Stresses at Interface of Bonded Concrete Overlays, (02-3512)

Patricia Kim Nelson and Robert Otto Rasmussen, The Transtec Group, Inc.

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Shoreham

Behavior of Steel Bridges Subjected to Lateral Loads

Ayaz H. Malik, New York State Department of Transportation, presiding

Sponsored by Committee on Steel Bridges

New San Francisco-Oakland Bay Bridge: Seismic Independent Check of Main Span

Santiago Rodriguez, T.Y. Lin International

Seismic Behavior and Design of Steel Girder Bridges

Abolhassan Astaneh-Asl, University of California, Berkeley

Reducing Lateral Seismic Loads on Long-Span Steel Bridges Using Isolation Bearings

Roy A. Imbsen, Imbsen & Associates, Inc.

How to Design a Bridge to Flutter in the Wind (and not)

John Raggett, West Wind Labs

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Shoreham

Performance of High-Density Polyethylene Pipe and Pipe Profile Stability

Timothy J. McGrath, Simpson Gumpertz & Heger Inc., presiding

Sponsored by Committee on Culverts and Hydraulic Structures and Committee on Subsurface Soil-Structure Interaction

Profile-Wall High-Density Polyethylene Pipes 1050 mm Iin Diameter Under Deep Soil Cover: Comparisons Between Field Performance Data and Analytical Predictions, (02-4038)

Shad M. Sargand and Teruhisa Masada, Ohio University; Kevin E. White, Ohio Department of Transportation; Bashar Altarawneh, Ohio University

Liner Buckling in Profiled Polyethylene Pipes, (02-3562)

Ashutosh Sutra Dhar, University of Western Ontario, Canada; Ian D. Moore, Queen's University, Kingston, Canada

Stability of Profile or Corrugated Wall Flexible Pipe, (02-2120)

James Goddard, Advanced Drainage Systems, Inc.

Performance of High-Density Polyethylene Pipe: Maintenance Engineer's Perspective, (02-2044)

Sarah Gassman, Richard Ray, and Melissa Quinton, University of South Carolina; Aaron Schroeder, Naval Facilities Engineering Service Center

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Shoreham

Small Market Airports: Impact of Evolving Regional Jet Service

Reiner Pelzer, Delaware Valley Regional Planning Commission, presiding

Sponsored by Committee on Intergovernmental Relations in Aviation and Committee on Light Commercial and General Aviation

Panel Discussion

Tulinda Larsen, BACK Aviation Solutions; Alfred Testa, Harrisburg International Airport; Byron Bohlman, Embraer USA; Steven Urllass, Federal Aviation Administration

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Shoreham

Assessing and Mitigating Infrastructure Impacts of Large Trucks

Robert M. Clarke, U.S. Department of Transportation, presiding

Sponsored by Committee on Motor Vehicle Size and Weight

Enforcement and Other Actions to Mitigate the Impacts of Large Trucks: New Approaches

Thomas J. Hillegass, Consultant

Divisible-Load Permits for Overweight Trucks on Texas Highways: An Evaluation, (02-4052)

David Luskin, Rob Harrison, C. Michael Walton, Zhanmin Zhang, and Jerry Jamieson, University of Texas, Austin

Assessing Impacts of Increasing Truck Weights in Idaho, (02-2859)

Richard J. Nielsen, Fouad M. Bayomy, and Michael Kyte, University of Idaho

Effect of Truck Weight on Bridge Network Costs

Gongkang Fu, Wayne State University

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Shoreham

In-Transit Visibility Using Integrated Information Systems

Arlene L. Dietz, U.S. Army Corps of Engineers, presiding

Sponsored by Committee on Military Transportation

Freight Information Real-Time for Transport

Bethann Rooney, Port Authority of New York and New Jersey

Now You See It, Now You Don't: Using Transponder Technology to "See" Freight Movements in Washington State

Catherine T. Lawson, State University of New York at Albany

Cargomate Logistics Information Management System

John Mohler, PAR Government Systems Corporation

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Shoreham

Aviation Deregulation: Status of International Airport Privatization

Waleed Youssef, The Berkeley Group, presiding

Sponsored by Committee on Airfield and Airspace Capacity and Delay and Committee on Light Commercial and General Aviation

Investor Perspective

Mar Nunez, Cintra, Spain

Government Perspective

Antonio Jachamowitz, The Berkeley Group

Financial Market Perspective

Adam Whiteman, Moody's Investors Service

International Survey of Performance Measurement in Airports, (02-2109)

Ian M. Humphreys, Loughborough University, United Kingdom; Graham A. J. Francis and Jackie M. Fry, The Open University, United Kingdom

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Hilton

Intelligent Vehicle Tracking and Simulation

Jon Bottom, Charles River Associates, Inc., presiding

Sponsored by Committee on Intelligent Transportation Systems

Simulating No-Passing Zone Violations on Vertical Curve of Two-Lane Rural Road, (02-2459)

Jamal Abdul Hafiz El Zarif, Antoine G. Hobeika, and Hesham A. Rakha, Virginia Polytechnic Institute and State University

Toward Anonymous Vehicle Tracking, (02-2065)

Baher Abdulhai and Seyed Tabib, University of Toronto, Canada

GENOSIM: Genetic Algorithm-Based Optimization Approach and Generic Tool for Calibration of Traffic Microscopic Simulation Parameters, (02-2131)

Baher Abdulhai and Tao Ma, University of Toronto, Canada

Unsupervised Automated Learning-Based Spatiotemporal Vehicle Tracking and Indexing for Transportation Multimedia Database Systems, (02-2521)

Shu-Ching Chen, Florida International University; Mei-Ling Shyu, University of Miami; Srinivas Peeta, Purdue University; Chengcui Zhang, Florida International University

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Hilton

Symposium on Transportation and Sustainability, Part 3: Cars and Climate--Transatlantic Coalition Near-Term Reduction of CO2 Emissions from Traffic (Part 1, Session 321; Part 2, Session 362; Part 4, Session 427; Part 5, Session 460)

Christina Schaper, Deutsche Umwelthilfe e.V., Germany, presiding

Sponsored by Committee on Transportation Energy; Task Force on Transportation and Sustainability; and Committee on Alternative Transportation Fuels

Transatlantic Coalition on Cars and Climate and Its Objective

Jurgen Resch, Deutsche Umwelthilfe e.V., Germany; Axel Friedrich, Umweltbundesamt, Germany; James M. Strock, James Strock & Co., Inc.

Best Practice for Automobile Technology from Nongovernmental Organization Perspective

John DeCicco, Environmental Defense

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Hilton

Accommodating Bicycles on Arterial Streets

Andrew Clarke, Association of Pedestrian and Bicycle Professionals, presiding

Sponsored by Committee on Bicycling and Committee on Transportation Issues in Major U.S. Cities

Accommodating Bicycles on Urban Arterials

Tom Branigan, Philadelphia Streets Department; Nick Jackson, Chicagoland Bicycle Federation; Roger Geller, City of Portland Department of Transportation

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Hilton

Cultures of Conducting Research

Laurie G. McGinnis, University of Minnesota, presiding

Sponsored by Committee on Conduct of Research

Understanding Partnering Organizations in Collaborative Research

Roberto Pietroforte, Worcester Polytechnic Institute

Organizational Differences and Their Potential to Enhance Research

Gary R. Allen, Virginia Transportation Research Council

Research Partnerships: Integration of Organizational Cultures

Robert C. Johns, University of Minnesota

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Hilton

Transit Contracting: What Is Working Here and Abroad

Lynn Ritter Otte, Multisystems, Inc., presiding

Sponsored by Committee on Transit Management and Performance

Transit Contracting Experiences and Advice from General Managers, (02-3316)

Daniel Kevin Boyle, Dan Boyle and Associates; Thomas R. Menzies, Transportation Research Board

International Perspective on Changing Structure of Urban Bus Market, (02-3967)

Brendan Michael Finn, ETTS Ltd., Singapore

Private-Sector Provider Perspective

Henry Hide, Brown & Root, United Kingdom

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Hilton

Innovations in Transportation Planning Applications

Julie K.P. Dunbar, Dunbar Transportation Consulting, presiding

Sponsored by Committee on Transportation Planning Applications

Modifications to Traditional External Trip Models

Gregory T. Giaimo, Ohio Department of Transportation

Origin and Destination Estimation in New York City Using Automated Fare System Data

James J. Barry and Robert Newhouser, MTA New York City Transit; Adam B. Rahbee, Massachusetts Institute of Technology; Shermeen Sayeda, Baruch College

Travel Demand Modeling and Conformity Determination: Atlanta Regional Commission Case Study

Guy Rousseau and Tracy Clymer, Atlanta Regional Commission

Enhancing Public Involvement Through Full Utilization of Communications Technology

Scott Russell and Jeffrey K. Herzer, HNTB Corporation

Application of Dwell-Time Functions in Transit Assignment Model, (02-3498)

Hedayat Z. Aashtiani, Sharif University of Technology, Iran; Hamid Irvani, Wilbur Smith Associates

Strategic Modeling in Rich Developing Countries: Case of Dubai, United Arab Emirates, (02-2499)

Ali A. Mekky, Alican Consultants, Canada; Nasser Ahmed Saeed, Dubai Municipality, United Arab Emirates

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Hilton

Intermodal Transit Facilities

Thomas R. Hickey, Delaware River Port Authority Transit Corporation, presiding

Sponsored by Committee on Intermodal Transfer Facilities

Creating Synergy in and Around Stations, (02-2941)

Gert-Joost Peek and Mark van Hagen, Delft University of Technology, Netherlands

Encouraging Kiss and Ride at Commuter Railroad Stations, (02-2992)

Joshua Levi Schank, Columbia University

European Perspective on Intermodal Travel

Marco Lemessi, University of Rome La Sapienza

Rebirth of San Francisco Transbay Terminal

Maria Ayerdi, Transbay Joint Powers Authority

New York City Intermodalism Options

Mark C. Walker, Parsons Brinckerhoff Quade and Douglas, Inc.

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Hilton

Return of the Streetcar

John D. Wilkins, New Jersey Transit Corporation, presiding

Sponsored by Committee on Light Rail Transit

New Portland Downtown Streetcar

Michael Collins, LTK Engineering Services

New Orleans Canal Street and Desire Lines

Jack W. Boorse, Parsons Brinckerhoff Quade and Douglas, Inc.

Historic Streetcar Operation on San Francisco E&F Lines

Ronald Niewiarowski, San Francisco Municipal Railway

Kenosha Streetcars

Harold H. Geissenheimer, Systra Consulting

Reconstruction of the 15 Girard Streetcar Line

Christopher Zearfoss, City of Philadelphia

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Hilton

Departments of Transportation Working with State Chief Information Officers: Achieving Harmony

Jeffrey L. Western, Wisconsin Department of Transportation, presiding

Sponsored by Committee on Information Systems and Technology and Committee on Strategic Management

State Department of Transportation Chief Information Officer View

C. Douglass Couto, Michigan Department of Transportation

Department of Transportation Chief Information Officer View

Thomas J. Perrone, Connecticut Department of Transportation

State Department of Transportation Chief Executive Officer View

Lowell B. Jackson, Michigan Transportation Commission

Researcher's View

Christopher Cluett, Battelle, Seattle Research Center

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Hilton

What's New in Bus Rapid Transit

Edward R. Fleishman, Federal Transit Administration, presiding

Sponsored by Committee on Bus Transit Systems

Federal Transit Administration Bus Rapid Transit Consortium

Bert Arrillaga, Federal Transit Administration

Bus Rapid Transit Conference Highlights

John Dockendorf, Pennsylvania Department of Transportation

American Public Transportation Association Bus Rapid Transit Future Plans

Joseph A. Calabrese, Greater Cleveland Regional Transit Authority

TCRP A-23: Bus Rapid Transit Developments

Samuel L. Zimmerman, Daniel, Mann, Johnson & Mendenhall

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Hilton

New Technology in Travel Surveys

Elaine R. Murakami, Federal Highway Administration, presiding

Sponsored by Committee on Travel Survey Methods

Use of Internet-Based Household Travel Diary Survey Instrument, (02-3785)

Thomas Adler and Leslie Rimmer, Resource Systems Group, Inc.; David Carpenter, Las Cruces, Dona Ana, Mesilla Metropolitan Planning Organization

Collection of Spatial Behavioral Data and Its Use in Activity Scheduling Models, (02-3545)

Marion Kreitz, Aachen University of Technology, Germany; Sean T. Doherty, Wilfrid Laurier University, Canada; Guido Rindsfueser, Aachen University of Technology, Germany

Performance Indicator Measurement Using Car Navigation Probe, (02-2969)

Kazuhiko Makimura, Institute of Behavioral Sciences, Japan

Simulation Study of Estimation of Individual Specific Values of Time Using an Adaptive Stated-Preference Survey, (02-2356)

Anthony Joseph Richardson, The Urban Transport Institute

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Tuesday, January 15, 1:30 p.m.-3:15 p.m., Hilton

Freight Issues, Needs, and Responses: A Decade of Experience After ISTE--Evolving State Department of Transportation Freight Planning Initiatives, Part 3 (Part 1, Session 315; Part 2, Session 357; Part 4, Session 437; Part 5, Session 513; Part 6, Session 551)

Randall K. Halvorson, Minnesota Department of Transportation, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning; Committee on Freight Transportation Planning and Logistics; Committee on Intermodal Freight Transport; and Committee on Ports and Channels

Minnesota Department of Transportation Experience

Randall K. Halvorson, Minnesota Department of Transportation

Ohio Department of Transportation Experience

Gordon Proctor, Ohio Department of Transportation

I-95 Mid-Atlantic Rail Study

Randy Evans, CSX Transportation, Inc.

Global Gateways Initiative

Richard Nordahl, California Department of Transportation

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Tuesday, January 15, 2:30 p.m.-5:30 p.m., Marriott

Geotechnical Engineering in Transportation, Part 2 (Part 1, Session 202) (Poster Session)

Sponsored by Committee on Cementitious Stabilization; Committee on Mineral Aggregates; Committee on Foundations of Bridges and Other Structures; Committee on Subsurface Drainage; and Committee on Engineering Geology

MP-1 Effect of Superplasticizers on Properties of Cement-Stabilized Soils, (02-2879)

Lan Wang, Linbing Wang, and Roger K. Seals, Louisiana State University, Baton Rouge; Baoshan Huang, Louisiana Transportation Research Center

MP-2 Assessment of Sulfate-Resistant Cement Stabilization Methods to Counter Sulfate-Induced Heave Problems, (02-3065)

Anand Puppala, Julie Ann Griffin, Laureano R. Hoyos, and Chomtid Suppakit, University of Texas, Arlington

MP-3 Application of Construction and Building Debris as Base and Subbase Materials, (02-2091)

Taeseon Park, Seoul National University of Technology, Korea

MP-4 Assessment of Polishing of Aggregate Microtexture by Means of Geometric Parameters, (02-2684)

Minh-Tan Do and Paul Marsac, Laboratoire Central des Ponts et Chaussées, France

MP-5 Characterization of Aggregate Shape Using Fourier Analysis and Digital Imaging Technique, (02-3395)

Dayakar Penumadu, University of Tennessee, Knoxville; Ramitha Wettimuny, Clarkson University

MP-6 Three-Dimensional Aggregate Evaluation Using X-Ray Tomography Imaging, (02-3775)

Linbing Wang, Louisiana State University, Baton Rouge; J. David Frost, Georgia Institute of Technology; Louay N. Mohammad, Louisiana State University, Baton Rouge

MP-7 Lateral Load Behavior of Piles Supporting Integral Bridges, (02-2024)

Sami Arsoy, Sakarya University, Turkey; Michael Duncan, Virginia Polytechnic Institute and State University

MP-8 Analytical Validation of Pull-Out Loading Capacity of Suction Piles in Clay, (02-2046)

Yeongki Cho, Daewoo E&C Co., Ltd., Korea; Sangchul Bang, South Dakota School of Mines and Technology

MP-9 Behavior of Piled Raft on Crest of Rock Slope, (02-3511)

Jin O Choi, Oh Sung Kwon, and Myoung Mo Kim, Seoul National University, Korea

MP-10 Comparison of Measured Hydraulic Conductivity with Predictions from Aggregate Gradation Specifications, (02-3110)

Jeffrey Stanley Stein, Andrew Wright, and Barry J. Dempsey, University of Illinois

MP-11 Geocomposite for Pavement Subsurface Drainage, (02-4068)

Barry R. Christopher, Christopher Consultants; Aigen Zhao, Tenax Corporation; Michael A. Hayden, Maine Department of Transportation

MP-12 Slope Stability of Loess Revisited, (02-2076)

Robert A. Lohnes and Bruce H. Kjartanson, Iowa State University

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Tuesday, January 15, 2:30 p.m.-5:30 p.m., Marriott

Planning for Pedestrians (Poster Session)

Sponsored by Committee on Pedestrians

MP-13 Biomechanical Response of Wheelchair Users to Decorative Crosswalks, (02-4139)

Thomas F Fugger, Jesse Lucas Wobrock, and Bryan C. Randles, Accident Research and Biomechanics, Inc.; Konstantinos Vrongistinos, California State University, Northridge

MP-14 Design Considerations in Simulating Pedestrian Environments, (02-3614)

Jody R. Naderi and Baranidharan Raman, Texas A&M University

MP-15 Pedestrian Location Identification Tools: Identifying Suburban Areas with Potentially High Latent Demand for Pedestrian Travel, (02-3748)

Anne Vernez Moudon and Paul M. Hess, University of Washington; Julie M Matlick, Washington State Department of Transportation; Nicholas Pergakes, University of Washington

MP-16 Analysis of Traffic on Multiuse Greenway Trails in Indiana, (02-2745)

Greg Lindsey and Doan Luu Bao Nguyen, Center for Urban Policy and the Environment

MP-17 Modeling Pedestrians in Transfer Stations, (02-2674)

Winnie Daamen, Holland Railconsult, Netherlands; Serge P. Hoogendoorn, Delft University of Technology, Netherlands

MP-18 Pedestrian Travel Behavior in Walking Areas by Subjective Utility Optimization, (02-2667)

Serge P. Hoogendoorn, Delft University of Technology, Netherlands

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Tuesday, January 15, 2:30 p.m.-5:30 p.m., Marriott

Measuring Pedestrian Level and Quality of Service (Poster Session)

Sponsored by Committee on Pedestrians

MP-19 Pedestrian Level of Service and Quality of Operations Assessment Methods, (02-2856)

Virginia P. Sisiopiku and Xuesong Zhang, Michigan State University; Mark R. Virkler, University of Missouri, Columbia

MP-20 Measuring Pedestrian Quality of Service for Midblock Street Crossing: Selection of Potential Determinants, (02-2367)

Xuehao Chu and Michael R. Baltes, University of South Florida

MP-21 Pedestrian Level of Service for Midblock Street Crossings: Preliminary Results, (02-2301)

Michael R. Baltes and Xuehao Chu, University of South Florida

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**Tuesday, January 15, 2:30 p.m.-5:30 p.m., Marriott
Older Persons, the Highway, and Crashes (Poster Session)**

Sponsored by Committee on Safe Mobility of Older Persons

**MP-22 Older Drivers' Perceptions of Problems at Unsignalized Intersections on Divided
Highways, (02-2365)**

Ronald W. Eck and Gary L. Winn, West Virginia University

Cohort Effects and Crashes of Elderly Drivers, (02-2292)

Juan Carlos Villalba, Edwards & Kelcey, Inc.; Adam Kirk and Nikiforos Stamatiadis,
University of Kentucky

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Tuesday, January 15, 2:30 p.m.-5:30 p.m., Marriott

Simulation, Delay, and Level-of-Service Issues in Capacity Analysis (Poster Session)

Sponsored by Committee on Highway Capacity and Quality of Service

MP-24 Multimodal Corridor Level-of-Service Analysis, (02-2058)

Richard G. Dowling, Dowling Associates; Douglas S. McLeod and Martin Guttenplan, Florida Department of Transportation

MP-25 Technique for Comparing Operation of Alternative Interchange Types, (02-2090)

James A. Bonneson and Sangsoo Lee, Texas Transportation Institute

MP-26 Development of Highway Congestion Index Using Fuzzy Set Models, (02-2229)

Manouchehr Vaziri, Sharif University of Technology, Iran

MP-27 Guidelines for Estimating Freeway Capacity at Long-Term Reconstruction Zones, (02-2272)

Ahmed Fouad Al-Kaisy, Bradley University; Fred L. Hall, McMaster University, Canada

MP-28 Variations in Capacity and Delay Estimates from Microscopic Traffic Simulation Models, (02-2296)

Zong Z Tian, Texas Transportation Institute; Thomas Urbanik II, University of Tennessee; Roelof J. Engelbrecht and Kevin N. Balke, Texas Transportation Institute

MP-29 Adaptation of HCM2000 for Planning-Level Analysis of Two-Lane and Multilane Highways in Florida, (02-2597)

Scott S. Washburn, University of Florida; Douglas S. McLeod, Florida Department of Transportation; Kenneth G. Courage, University of Florida

MP-30 Comparison of Delay on Arterials by Simulation and Highway Capacity Manual Computations, (02-2652)

Elena S. Prassas, Polytechnic University of New York

MP-31 Developing a Measure of Traffic Congestion: Fuzzy Inference Approach, (02-2770)

Khaled Hamad and Shinya Kikuchi, University of Delaware

MP-32 Using Simulation to Estimate Speed Improvements from Simple Ramp Metering at On-Ramp Junctions, (02-3342)

Sanhita Lahiri, David Plummer & Associates; Albert C. Gan and Qiong Shen, Florida International University

MP-33 Uncertainty in Operational Analysis of Two-Lane Highways, (02-3705)

R. Tapio Luttinen, TL Consulting Engineers Ltd., Finland

MP-34 Simulation of Freeway Weaving Areas, (02-3732)

Alexander Skabardonis, University of California, Berkeley

MP-35 Field Evaluation of HCM2000 Analysis Procedures for Two-Lane Highways, (02-3946)

Michael Perry Dixon, Satya Sai Kumar Sarepali, and Kevin Allen Young, University of Idaho

MP-36 Comparison of Delay from HCS, Synchro, PASSER II, PASSER IV, and CORSIM for Urban Arterial, (02-4116)

Rahim F. Benekohal and Yoassry Elzoairy, University of Illinois, Urbana-Champaign; Josh Saak, Crawford, Murphy, & Tilly, Inc.

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Tuesday, January 15, 2:30 p.m.-5:30 p.m., Hilton

Unveiling New Aspects of Travel Behavior (Poster Session)

Sponsored by Committee on Traveler Behavior and Values and Committee on Passenger Travel Demand Forecasting

HP-1 Structural Equations Analysis of Within-Household Activity and Time Allocation Between Two Adults, (02-2566)

Srinivas Meka, Ram M. Pendyala, and Mampearachchige Wasantha Kumara, University of South Florida

HP-2 Travel Behavior Analysis of South Perth Individualized Marketing Intervention, (02-2720)

Konstadinos G. Goulias, Pennsylvania State University; Werner Broeg, Socialdata GmbH, Germany; Bruce James and Colin Graham, Western Australia Transport

HP-3 Effects of Reconstruction of I-880 on Travel Behavior, (02-2153)

Joy Wilbrand Dahlgren, University of California, Berkeley

HP-4 Mobility Styles and Travel Behavior: Application of Lifestyle Approach to Leisure Travel, (02-3411)

Martin Lanzendorf, University of Utrecht, Netherlands

HP-5 Investigating Travel and User Characteristics of Toll Roads Based on Travel Survey of Central Florida Expressway System, (02-2440)

Hassan T. Abdelwahab and Mohamed A. Abdel-Aty, University of Central Florida

HP-6 Stationary and Time-Varying Patterns in Activity Diary Panel Data: Explorative Analysis Using Association Rules, (02-2172)

Bertold Keuleers and Geert Wets, University of Limburg, Belgium; Harry Timmermans, Theo Arentze, and Koen Vanhoof, Eindhoven University of Technology, Netherlands

HP-7 Aggregate Regimes and Individual Routines in Activity-Travel Patterns, (02-2326)

Aloys Borgers, Maarten Ponje, Harry Timmermans, and Peter van der Waerden, Eindhoven University of Technology, Netherlands

HP-8 Trip Time Perception and Judgment Processes in Trip-Maker Decisions Under Real-Time Traffic Information, (02-3952)

Karthik K. Srinivasan, Vanderbilt University; Hani S. Mahmassani, University of Texas, Austin

HP-9 Untangling Factors Behind Temporal Evolution of Mobility: Case of Sao Paulo, Brazil, (02-4003)

Orlando Strambi and Karin-Anne van de Bilt, Escola Politecnica, Brazil

HP-10 Comparison of Performance of Nested Logit Models and Artificial Neural Networks for Predicting Household Automobile Choices, (02-3155)

Abolfazl Mohammadian and Eric J. Miller, University of Toronto, Canada

HP-11 Neighborhood Services, Trip Purpose, and Tour-Based Travel, (02-3521)

Kevin J. Krizek, University of Washington

HP-12 On the Structure of Weekly Activity-Travel Patterns, (02-3211)

Ming S. Lee, TJKM Transportation Consultants; Michael G. McNally, University of California, Irvine

HP-13 Structural Equation Models of Day-To-Day Activity Participation and Travel Behavior in a Developing Country, (02-3418)

Jin-Hyuk Chung and Yongsung Ahn, Chung-Ang University, Korea

HP-14 Incorporating Variety-Seeking and Seasonality in Stated-Preference Modeling of Leisure Trip Destination Choice: Test of External Validity, (02-2717)

Astrid Kemperman, Aloys Borgers, and Harry Timmermans, Eindhoven University of Technology, Netherlands

HP-15 Intershopping Duration: Analysis Using Multiweek Data, (02-3012)

Chandra R. Bhat, Teresa Frusti, and Huimin Zhao, University of Texas, Austin; Stefan Schonfelder and Kay W. Axhausen, ETH Zurich, Switzerland

HP-16 Estimation of Preferred Departure Times and Changes in Departure Time Patterns, (02-3024)

Raoul Teekamp, Goudappel Coffeng BV, Netherlands; Erwin Marco Bezembinder and Dirk Hendrik van Amelsfort, Goudappel Coffeng BV, The Netherlands; Eric Cor van Berkum, University of Twente, Netherlands

HP-17 Structural Model of Automobile Demand in Korea, (02-2910)

Jin-Hyuk Chung and Dongkyu Lee, Chung-Ang University, Korea

HP-18 Analysis of Drivers' Route Choice Behavior by Data Mining Algorithms, (02-2695)

Toshiyuki Yamamoto, Ryuichi Kitamura, and Junichiro Fujii, Kyoto University, Japan

HP-19 Patricia: Predicting Activity-Travel Interdependencies Using a Suite of Choice-Based Interlinked Analyses, (02-2686)

Aloys Borgers, Harry Timmermans, and Peter van der Waerden, Eindhoven University of Technology, Netherlands

HP-20 Household Vehicle Ownership by Vehicle Type: Application of a Multivariate Negative Binomial Model, (02-2631)

Yong Zhao and Kara M. Kockelman, University of Texas, Austin

HP-21 Qualitative Methods in Travel Behavior Research, (02-2545)

Kelly J. Clifton, University of Iowa; Susan Handy, University of Texas, Austin

HP-22 Do You Go to the Movies on Your Lunch Break? Trip- and Trip-Context-Data Based Modeling of Activities, (02-2416)

Tobias Georg Kuhnimhof, University of Karlsruhe, Germany; Volker Wassmuth, PTV AG, Germany

HP-23 Comparison of Morning and Evening Commutes, (02-2251)

Charles R. Lindsey, University of Alberta, Canada; Andre De Palma, University of Cergy-Pontoise, France

HP-24 Unified Mixed Logit Framework for Modeling Revealed and Stated Preferences: Formulation and Application to Congestion Pricing Analysis in San Francisco Bay Area, (02-2128)

Chandra R. Bhat and Saul Castelar, University of Texas, Austin

HP-25 Exploration of Relationship Between Timing and Duration of Maintenance Activities, (02-2827)

Ram M. Pendyala, University of South Florida; Chandra R. Bhat, University of Texas, Austin; Abhishankar Parashar and Govardhan R. Muthyalagari, University of South Florida

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Tuesday, January 15, 2:30 p.m.-5:30 p.m., Hilton

Transportation Performance Measures (Poster Session)

Sponsored by Committee on Transportation Programming, Planning, and Systems Evaluation

HP-26 Performance Measures

Brenda Berg, TransTech Management, Inc.

HP-27 Developing Performance Measures for New Management and Operations Approach for Washington, D.C., Metropolitan Planning Organization

Robert M. Winick, Motion Maps, LLC; Andrew J. Meese, Metropolitan Washington Council of Governments

HP-28 Measuring Public Satisfaction with the Nation's Highways and Community Transportation Systems

Karen Weiss, Science Applications International Corporation

HP-29 Measuring Urban Mobility

David L. Schrank and Timothy J. Lomax, Texas Transportation Institute

HP-30 Results of Statewide Application of Quality-of-Service Measures from Transit Capacity and Quality-of-Service Manual

Tara Barteel, Florida Department of Transportation

HP-31 Measuring Travel Time Reliability

Vince P. Pearce, Federal Highway Administration

HP-32 Highway Capacity Manual: Fifty Years of Measuring Transportation System Performance

John D. Zegeer, Kittelson & Associates, Inc.

HP-33 Measuring Performance of High-Occupancy-Vehicle Facilities in the Washington, D.C., Region

Patrick Zilliacus, Metropolitan Washington Council of Governments

HP-34 Development of Performance Measures for 2001 Regional Transportation Plan for San Francisco Bay Area

Lisa A. Klein, Metropolitan Transportation Commission

HP-35 Development of Urban Accessibility Index

Lisa Weston, University of Texas, Austin

HP-36 FHWA Mobility Monitoring Program: Texas Transportation Institute and Cambridge Systematics

Shawn M. Turner, Texas Transportation Institute

HP-37 Florida Mobility Performance Measures

Anita Vandervalk, Florida Department of Transportation

HP-38 Use of Intelligent Transportation System Modeling Techniques for Transportation Decision Making

Param Sankar, Cambridge Systematics, Inc.

HP-39 What Gets Measured Gets Managed: The Gray Notebook

Daniela Bremmer, Washington State Department of Transportation

HP-40 Performance Evaluation of Florida's Transit Systems

Brenda Thompson, Victoria Park, and Joel R. Rey, University of South Florida

HP-41 Performance Programming: Providing Accountability

Jeffrey M. Ebert, Montana Department of Transportation

HP-42 Feasibility of Using Shipper Panels to Measure Performance of Transportation Services

Catherine J. Petersen, C.J. Petersen & Associates; Mark J. Berndt, Wilbur Smith Associates

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Tuesday, January 15, 3:45 p.m.-5:30 p.m., Marriott

Asphalt Pavement Density and Profilometer Issues During Construction

Ali Regimand, InstroTek, Inc., presiding

Sponsored by Committee on Flexible Pavement Construction and Rehabilitation

Determining Air Void Content of Compacted Hot-Mix Asphalt Mixtures, (02-2099)

L. K. Crouch, Audrey R. Copeland, Charles Todd Walker, and Richard Maxwell, Tennessee Technological University; Greg Duncan, Tennessee Department of Transportation; William A. Goodwin, Daniel A. Badoe, and Wayne Leimer, Tennessee Technological University

Evaluation of New Nonnuclear Pavement Density Gauge Using Field Projects, (02-2352)

Pedro Romero and Frederick Kuhnaw, University of Utah

Application of Profile Data to Detect Localized Roughness, (02-4050)

Emmanuel G. Fernando, Texas Transportation Institute

Evaluation of High-Speed Profilers for Measurement of Asphalt Pavement Smoothness in Florida, (02-2241)

Bouzid Choubane, Ronald McNamara, and Gale C. Page, Florida Department of Transportation

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Tuesday, January 15, 3:45 p.m.-5:30 p.m., Marriott

State of the Art in Dynamic Traffic Assignment Modeling for Network Operations Planning, Part 2 (Part 1, Session 373)

Edmond Chin-Ping Chang, Oak Ridge National Laboratory, presiding

Sponsored by Committee on Traffic Flow Theory and Characteristics

Evaluation of Traffic Estimation and Prediction Capabilities

Haris N. Koutsopoulos, Volpe National Transportation Systems Center; Ramachandran Balakrishnan, Srinivasan Sundaram, and Moshe E. Ben-Akiva, Massachusetts Institute of Technology

Traffic Management Strategy Evaluation in Work Zone Areas

Hani S. Mahmassani, Hayssam Sbayti, and Yi-Chang Chiu, University of Texas, Austin

Designing Traffic Information and Incident Management Systems

Victor J. Blue, New York State Department of Transportation; Constantinos Antoniou and Moshe E. Ben-Akiva, Massachusetts Institute of Technology

Integrated Corridor Management and Optimal Variable Message Sign Location

Yi-Chang Chiu, Nhan H. Huynh, and Hani S. Mahmassani, University of Texas, Austin

Decision Aid for Traffic Diversion

Michel Bierlaire, Swiss Federal Institute of Technology; Constantinos Antoniou and Moshe E. Ben-Akiva, Massachusetts Institute of Technology

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Tuesday, January 15, 3:45 p.m.-5:30 p.m., Marriott

Railroad-Highway Crossing for 2002, Part 2 (Part 1, Session 374)

Fred Coleman III, University of Illinois, Urbana-Champaign, presiding

Sponsored by Committee on Railroad-Highway Grade Crossings

Assessment and Improvement of Safety at Finnish Railway-Road Grade Crossings, (02-3607)

Veli-Pekka Kallberg, VTT Communities and Infrastructure, Finland; Matti Anila, Kirsi E Pajunen, Mikko Kallio, and Jouni Hytonen, VTT Building and Transport, Finland

Decision-Making Framework for Consideration of Grade-Separation at Rail-Highway Crossings, (02-2971)

Victoria Gitelman and Alfred-Shalom Hakkert, Transportation Research Institute, Israel

Evaluation of Alternative Detection Technologies for Trains and Highway Vehicles at Highway-Rail Intersections, (02-2511)

Anya A. Carroll and Jeffrey E. Gordon, U.S. Department of Transportation; Richard P. Reiff and Scott E. Gage, Transportation Technology Center, Inc.

Evaluation of Passive Level Crossing Report to England

Aidan Nelson, Railway Safety, England

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Tuesday, January 15, 3:45 p.m.-5:30 p.m., Marriott

Traffic Enforcement and Safety: Speed

Charles Peltier, National Highway Traffic Safety Administration, presiding

Sponsored by Committee on Traffic Law Enforcement

Optimal Speed Limits: Limits of Optimality Models, (02-2092)

Rune Elvik, Institute of Transport Economics, Norway

Feasibility of Real-Time Remote Speed Enforcement for Work Zones, (02-2318)

Michael D. Fontaine, Steven D. Schrock, and Gerald L. Ullman, Texas Transportation Institute

Role of Speeding Fine Function in Driver Coordination, (02-3200)

Randal Reed, Morgan State University

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Tuesday, January 15, 3:45 p.m.-5:30 p.m., Marriott

Soil and Fill Properties

John D. Duffy, California Department of Transportation, presiding

Sponsored by Committee on Soil and Rock Properties

Evaluation of Strength and Consolidation Parameters of Cohesive Soils from Piezocone Penetration Tests, (02-2750)

Myrad Y Abu-Farsakh, Louisiana Transportation Research Center

Road Subgrade Properties of Loessal Soil in the Memphis Area, (02-2306)

Gennaro G. Marino and Mohamed Gamal, Marino Engineering Associates

Engineering Properties of Tire-Chip-Cohesive-Soil Mixtures, (02-3001)

Chiwan Wayne Hsieh and Yu-Hsien Ho, National Pingtung University of Science and Technology, Taiwan

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Tuesday, January 15, 3:45 p.m.-5:30 p.m., Marriott

New Concrete and Old Concrete: Performance, Repair, and Reuse

Frances A. McNeal-Page, Master Builders, Inc., presiding

Sponsored by Committee on Concrete Materials and Placement Techniques

Performance of First Structure Built with High-Performance Concrete in Virginia, (02-2339)

Celik Ozyildirim, Virginia Transportation Research Council & University of Virginia

Influence of Key Parameters on Quality of Dry Shotcrete, (02-3688)

Mohamed Nagib Abou-Zeid and Elrasheid M. Elkhidir, American University in Cairo, Egypt

Effects of Strength Variations of Concrete on Physical Properties and Frost Resistance of Recycled Aggregate Concrete, (02-3084)

Rohi Mohammed Salem and Edwin G. Burdette, University of Tennessee, Knoxville; N. Mike Jackson, University of North Florida

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Tuesday, January 15, 3:45 p.m.-5:30 p.m., Marriott

Performance of Corrosion Inhibitors in Reinforced Concrete Structures

John Philip Broomfield, Broomfield Consultants, United Kingdom, presiding

Sponsored by Committee on Corrosion

Role of Corrosion Inhibitors for Controlling Corrosion in Newly Constructed Reinforced Concrete Structures

Alberto A. Sagues, University of South Florida; Rodney G. Powers, Florida Department of Transportation

Role of Corrosion Inhibitors in Controlling Corrosion of Salt-Contaminated Corroding Reinforced Concrete Structures: National Pooled-Fund Study

Michael M. Sprinkel, Virginia Transportation Research Council

Introduction to Corrosion in Concrete and Corrosion Inhibitors

Arnold M. Rosenberg, Concrete Corrosion Inhibitors Association

Evaluation of Economical and Efficient Methods for Corrosion Protection of Structural Concrete: Experimental Study and Mathematical Modeling

Bala Haran, University of South Carolina

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Tuesday, January 15, 3:45 p.m.-5:30 p.m., Marriott

Case Studies of Polymer Concrete Use by Departments of Transportation

Milton D. Anderson, Symons Corporation, presiding

Sponsored by Committee on Polymer Concretes, Adhesives, and Sealers

Thin Methacrylate Bridge Deck Overlay Projects

Thomas Wickett, Silika Resin Systems

Effect of Slab Preparation Techniques on Bond of Latex-Modified Concrete Overlays Used for Bridge Deck Repair and Maintenance, (02-3287)

Scott M. Tarr, Construction Technology Laboratories; William A. Cynecki, Dow Chemical Company; Edward K. Rice and Christopher J. Davis, CTS Cement Manufacturing Company; Matthew Sheehan, Construction Technology Laboratories, Inc.

Durability Evaluation of Concrete Crack Repair Systems, (02-3594)

George Tsiatas and Joseph S Robinson, University of Rhode Island

Protection of Existing Cracked Bridge Decks with Polymer Sealers, (02-3105)

David Meggers, Kansas Department of Transportation; Carl E. Kurt, University of Kansas

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Tuesday, January 15, 3:45 p.m.-5:30 p.m., Marriott

How Local Governments Are Responding to Government Accounting Standards Board Statement No. 34 (GASB 34)

Paul Sachs, Nichols Consulting Engineers, Chtd., presiding

Sponsored by Committee on Pavement Management Systems

As GASB Statement 34 is implemented by local agencies throughout the United States, it is apparent that many are looking at responding to the requirements differently. This panel will explore several examples of different procedures that are being applied in response to GASB Statement 34. A general discussion on GASB Statement 34 will be included, by the end of which attendees at the session will be exposed to new ideas and techniques on how to respond.

Panel Discussion

Sue McNeil, University of Illinois, Chicago; Regina McElroy, Federal Highway Administration; Doyt Y. Bolling, Utah State University

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Tuesday, January 15, 3:45 p.m.-5:30 p.m., Marriott

Reliability in Subsurface Imaging

Dimitri A. Grivas, Rensselaer Polytechnic Institute, presiding

Sponsored by Committee on Modeling Techniques in Geomechanics

Subsurface Sensing for Highway Infrastructure Condition Diagnostics: Overview of Current Applications and Future Development, (02-3987)

Sara J. Wadia-Fascetti, Northeastern University; Dimitri A. Grivas, Rensselaer Polytechnic Institute; Cameron Schultz, Institute for Infrastructure Asset Management

Use of Nondestructive Methods for Large-Scale Bridge Deck Evaluation, (02-2735)

Kenneth R. Maser, Infrasense, Inc.; Greg Debski and Alfred J. Klag, Jr., Michael Baker, Jr., Inc.; Kaz Tabrizi and Vahid Gangi, Advanced Infrastructure Design, Inc.

Use of Ground-Penetrating Radar Data for Rehabilitation of Composite Pavements on High-Volume Roads, (02-2724)

Kenneth R. Maser, Infrasense, Inc.

Evaluation of TransTech Pavement Quality Index Density Gauge at National Center for Asphalt Technology Test Track

Stuart Malley, Vulcan Materials Company

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Tuesday, January 15, 3:45 p.m.-5:30 p.m., Marriott

Nondestructive Evaluation for Lifetime Bridge Assessment: From Construction to Service

Rola L. Idriss, New Mexico State University, presiding

Sponsored by Committee on Construction of Bridges and Structures

Infrared Thermographic Analysis of Bridges: Case Study, (02-2409)

Michael C. Forde, Maxwell Clark, and David McCann, University of Edinburgh, United Kingdom

New Nondestructive Evaluation Bridge Technologies in Bridge Construction

Richard A. Livingston, Federal Highway Administration

Monitoring Prestressed High-Performance Concrete Bridge with Built-In Nondestructive Evaluation

Rola L. Idriss, New Mexico State University

Long-Term Performance Assessment of Composite Bridge

Daniel Farhey, University of Dayton

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Tuesday, January 15, 3:45 p.m.-5:30 p.m., Shoreham

Portland Cement Concrete and Asphalt Concrete Pavement Rehabilitation

Trenton M. Clark, Virginia Department of Transportation, presiding

Sponsored by Committee on Pavement Rehabilitation

Long-Term Performance of Fast-Track Full-Depth Repairs, (02-3721)

H. Thomas Yu, ERES Consultants, Inc.; Jagannath Mallela, Applied Research Associates, Inc.; Michael I. Darter, ERES Consultants, Inc.

Assessment of Retrofit Dowel Benefits in Cracked Portland Cement Concrete Pavements, (02-2254)

Jacob E. Hiller, University of Illinois, Urbana-Champaign; Neeraj J. Buch, Michigan State University

Evaluation of Performance of Full-Depth Reclamation Mixes, (02-3150)

Rajib B. Mallick and David S Bonner, Worcester Polytechnic Institute; Richard L. Bradbury and Jamie O Andrews, Maine Department of Transportation; Prithvi S. Kandhal, National Center for Asphalt Technology; Edward J. Kearney, Gorman Brothers Inc.

Development of a Mechanistic-Empirical Based Overlay Design Method for Reflective Cracking, (02-2846)

Jorge Sousa, Consulpav International; Jorge Pais, University of Minho, Portugal; Rachid Saim, Consulpav International; George B. Way, Arizona Department of Transportation; Richard Stubstad, Consulpav International

420

Tuesday, January 15, 3:45 p.m.-5:30 p.m., Shoreham

High-Performance Steel Bridge Design and Fabrication

M. Myint Lwin, Federal Highway Administration, presiding

Sponsored by Committee on Steel Bridges

High-Performance Steel: Research Front: Historical Account of Research Activities, (02-3086)

Atorod Azizinamini, University of Nebraska, Lincoln

High-Performance Steel Cost Comparison Study, (02-2821)

Richard Horton and Edward Power, HDR Engineering, Inc.; Kristi Van Ooyen, Nebraska Department of Roads; Atorod Azizinamini, University of Nebraska, Lincoln

Shop Fabrication of HPS-70W Steel

Scott Kopp, High Steel Structures, Inc.

High-Performance Steels for Highway Bridges, (02-2245)

Myint Lwin, Federal Highway Administration

421

Tuesday, January 15, 3:45 p.m.-5:30 p.m., Shoreham

Analysis of Buried Pipe to Determine Design Limits

James B. Goddard, Advanced Drainage Systems, Inc., presiding

Sponsored by Committee on Culverts and Hydraulic Structures and Committee on Subsurface Soil-Structure Interaction

Analysis of Buried Flexible Pipe Using CANDE and ANSYS, (02-2998)

Muhammad Suleiman, Terry Wipf, F. Wayne Klaiber, and Robert A. Lohnes, Iowa State University

Test Apparatus for Time-Independent Stiffness of Thermoplastic Pipe, (02-3263)

Lester H. Gabriel, James Ster, and Brett Anthony, California State University, Sacramento

Corrugated High-Density Polyethylene Pipe: Laboratory Testing and Two-Dimensional Analysis to Develop Limit States Design, (02-3416)

Ashutosh Sutra Dhar, University of Western Ontario, Canada; Ian D. Moore, Queen's University, Kingston, Canada

Minimum Cover Requirements for Large-Diameter High-Density Polyethylene Pipe Installed with Granular Backfill, (02-3280)

Priyantha Warnasuriya Jayawickrama and Aruna Lal Amarasiri, Texas Tech University; Pedro Enrique Regino, Marine Geosciences

422

Tuesday, January 15, 3:45 p.m.-5:30 p.m., Shoreham

Engineering Challenges Involved in Construction of High-Speed Ground Transportation

Brenda Myers Bohlke, PBConsult, Inc., presiding

Sponsored by Committee on Guided Intercity Passenger Transportation

Experiences with Precast Span Method on Korean High-Speed Rail Project

Kee Dong Kang, Korea High-Speed Rail Corporation; Sunduck D. Suh, Hanyang University, Korea

Engineering Challenges for a Statewide High-Speed Train System in California

Daniel Leavitt, California High-Speed Rail Authority; Kip D. Field and Paul Mosier, Parsons Brinckerhoff Quade and Douglas, Inc.

Challenges Involved in Building Maglev in a Highly Developed Corridor Between Baltimore and Washington, D.C.

John Wisniewski, Parsons Brinckerhoff Quade and Douglas, Inc.; Brenda Myers Bohlke, PBConsult, Inc.

Technical Developments of Transrapid Maglev: Shanghai, China

Robert Budell, Transrapid International, Germany; Laurence Blow, Transrapid-USA, Inc.

423

Tuesday, January 15, 3:45 p.m.-5:30 p.m., Shoreham

Challenges and Impact of Increased Border Security on Trade and Transportation

Gregg M. Ward, Detroit-Windsor Truck Ferry, Inc., presiding

Sponsored by Committee on International Trade and Transportation and Task Force on Critical Transportation Infrastructure Security

Panel Discussion

John McGowan, U.S. Customs Service; Keith S. Prager, Keith Prager & Associates, Inc.; Stephen E. Flynn, U.S. Coast Guard Academy

424

Tuesday, January 15, 3:45 p.m.-5:30 p.m., Shoreham

Alternatives to Capacity-Constrained Transportation Systems Under a Military Surge

Carl J. Seiberlich, TranSystems Corporation, presiding

Sponsored by Committee on Military Transportation

Fort to Port Transportation Infrastructure Readiness Assessment in the South Atlantic

Nuns Jain, Maritime Administration

Options in the Coastwise Segment

Rolf Marshall, Preston Gates Ellis & Rouvelas Meeds, LLP

Inland Waterway Options for National Defense

James R. McCarville, Port of Pittsburgh Commission

425

Tuesday, January 15, 3:45 p.m.-5:30 p.m., Shoreham

Airspace and Air Traffic Control Issues

Saleh A. Mumayiz, The MITRE Corporation, presiding

Sponsored by Committee on Airfield and Airspace Capacity and Delay

Factors Affecting Air Traffic Controller Workload: Multivariate Analysis Based on Simulation Modeling of Controller Workload, (02-2650)

Arnab Majumdar and Washington Yotto Ochieng, Imperial College of Science Technology and Medicine, United Kingdom

Analyses of Impact of Reduced Vertical Separation Minima on Airport System Infrastructure, (02-2776)

Paisit Herabat, Carnegie-Mellon University; Sue McNeil, University of Illinois, Chicago

Analysis of Factors Affecting Occurrence and Severity of Air Traffic Control Operational Errors, (02-4060)

Geoffrey D Gosling, University of California, Berkeley

426

Tuesday, January 15, 3:45 p.m.-5:30 p.m., Hilton

State of the Practice in Planning for Operations

Wayne Berman, Federal Highway Administration, presiding

Sponsored by Committee on Strategic Management

Panel Discussion: Issue, Challenges, and Opportunities for Moving from the State of the Practice to the State of the Art

John Mason, Science Applications International Corporation; Stephen C. Lockwood, Parsons Brinckerhoff, Inc.; Michael D. Meyer, Georgia Institute of Technology

427

Tuesday, January 15, 3:45 p.m.-5:30 p.m., Hilton

Symposium on Transportation and Sustainability, Part 4: Transportation and Urban Development (Part 1, Session 321; Part 2, Session 362; Part 3, Session 390; Part 5, Session 460)

Kenneth M. Gwilliam, World Bank, presiding

Sponsored by Committee on Transportation Energy; Task Force on Transportation and Sustainability; and Committee on Alternative Transportation Fuels

Panel Discussion

Lee J. Schipper, International Energy Agency, France; Daniel Sperling, University of California, Davis; Orlando Strambi, Escola Politecnica, Brazil; Ranjan Kumar Bose, Tata Energy Research Institute, India; Walter B. Hook, Institute for Transportation and Development Policy; Christopher Zegras, Massachusetts Institute of Technology

428

Tuesday, January 15, 3:45 p.m.-5:30 p.m., Hilton

Bicycle Commuting and Safety

Linda B. Dixon, Delaware Department of Transportation, presiding

Sponsored by Committee on Bicycling

Assessing Demand for Bicycle Commuter Travel on Shared-Use Paths, (02-2528)

Lisa M. Aultman-Hall, University of Connecticut

Cycling and the Journey to Work: Analysis of 1996 Census Results for Greater Vancouver Regional District, (02-3942)

Tamim Raad, TransLink, Canada

Estimating Risk of Collisions Between Bicycles and Automobiles at Signalized Intersections, (02-2250)

Yinhai Wang and Nancy L. Nihan, University of Washington

Investigation of Cycling Sensitivities, (02-2207)

John E. Abraham, University of Calgary, Canada; Susan McMillan, City of Calgary, Canada;
Alan T. Brownlee, City of Edmonton, Canada; John Douglas Hunt, University of Calgary,
Canada

429

Tuesday, January 15, 3:45 p.m.-5:30 p.m., Hilton

Advancing Innovation and Implementation of New Technology Through Training

Joseph S. Toole, Federal Highway Administration, presiding

Sponsored by Committee on Technology Transfer; Committee on Conduct of Research; and Committee on Winter Maintenance

More so than ever, it is important to find ways to accelerate the implementation of innovative techniques and practices in all areas of the transportation program. Training offers a powerful tool for taking these research outputs and putting them into practice. This session, which is cosponsored by the Committees on the Conduct of Research, Winter Maintenance, and Technology Transfer, will offer "success stories" of how training has worked, its importance to the transportation community, and a practical guide on how to apply it to your own research or training organization.

430

Tuesday, January 15, 3:45 p.m.-5:30 p.m., Hilton

Current Rural Transportation Research

Jon E. Burkhardt, Westat, presiding

Sponsored by Committee on Rural Public and Intercity Bus Transportation

Bringing Fixed-Route Transit Service to Small Cities and Towns: Potential Contribution of Existing Demand-Response Brokerages, (02-3069)

Lenahan L. O'Connell and Theodore H. Grossardt, Kentucky Transportation Center; Bruce S. Siria, Kentucky Transportation Cabinet

Rural Community Coordinated Transportation Services

Jon E. Burkhardt, Westat

Productivity, Efficiency, and Quality Innovations in Rural Transportation

Ken. Hosen, KFH Group

Effective Approaches to Meeting Rural Intercity Bus Transportation Needs

Frederic D. Fravel, KFH Group International

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Tuesday, January 15, 3:45 p.m.-5:30 p.m., Hilton

Land Use and Transportation

Robert T. Dunphy, Urban Land Institute, presiding

Sponsored by Committee on Transportation and Land Development

Empirical Analysis of Relationship Between Urban Form and Travel Time, (02-2932)

Tim Schwanen, Martin Dijst, and Frans M. Dieleman, Utrecht University, Netherlands

Traditional Neighborhoods and Automobile Ownership, (02-2594)

Daniel Baldwin Hess and Paul M. Ong, University of California, Los Angeles

Impacts of Infill Retail Center Development on Regional Travel Patterns, (02-2708)

Yoram Shiftan, Technion - Israel Institute of Technology; Gregory Louis Newmark, Perlstein Galit Ltd., Israel

Accessibility Indices: Connection to Residential Land Prices and Location Choices, (02-2569)

Issam Srour, Kara M. Kockelman, and Travis Dunn, University of Texas, Austin

Transit's Value-Added: Effects of Light and Commuter Rail Services on Commercial Land Values, (02-2273)

Robert Burke Cervero and Michael Duncan, University of California, Berkeley

432

Tuesday, January 15, 3:45 p.m.-5:30 p.m., Hilton

Web Design for Accessibility

Katharine M. Hunter-Zaworski, Oregon State University, presiding

Sponsored by Division A Council, Technical Activities

Need Title

Doug Wakefield, U.S. Access Board

Need Title

Greg Pisocky, Adobe Systems, Inc.

Making Your Website ADA Compliant, (02-3611)

Chuck B. Slocter, New Mexico State Highway and Transportation Department

433

Tuesday, January 15, 3:45 p.m.-5:30 p.m., Hilton

Light Rail Transit Research

John W. Schumann, LTK Engineering Services, presiding

Sponsored by Committee on Light Rail Transit

The Tram-Train: New Public Transport System, (02-2230)

Miguel Rodriguez Bugarin, Margarita Novales, and Alfonso Orro, Universidad de La Coruna, Spain

BRT or LRT, How to Decide? Los Angeles Case Study, (02-4171)

John M. Stutsman, Korve Engineering Inc.

Socioeconomic, Community-Based Approach for Developing Integrated Mass Transit Systems as Applied to Baltimore City, (02-4176)

Claudia G. Phillips and Hazel Ruth Edwards, Morgan State University

Effects of Pedestrian Treatments on Risky Behavior, (02-2887)

Joaquin T. Siques, Korve Engineering Inc.

Microsimulation Modeling and Impact Assessment of Streetcar Transit Priority Options: Toronto Experience, (02-2097)

Baher Abdulhai, University of Toronto, Canada; Amer Shalaby, Ryerson Polytechnic University, Canada; Asmus Georgi, University of Toronto, Canada

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Tuesday, January 15, 3:45 p.m.-5:30 p.m., Hilton

Advancing Transportation Applications of Information Technologies

Bin Ran, University of Wisconsin, Madison, presiding

Sponsored by Committee on Information Systems and Technology

Decision Support System for Advanced Traffic Management Through Data Fusion and Mining, (02-3694)

Lawrence A. Klein, Consultant; Ping Yi, University of Akron; Hualiang Teng, Polytechnic University of New York

Prototype Classification Tool to Support Maintenance of Traffic Signal Timing Plans, (02-2974)

Brian Lee Smith, Trisha A Hauser, and William T. Scherer, University of Virginia

Knowledge Discovery in Pavement Condition Data, (02-2733)

Vanessa Amado, University of Missouri, Columbia; Kristen L. Sanford Bernhardt, Lafayette College

Extensible Markup Language-Based Transit Timetable System, (02-2820)

Wu Sun, New Jersey Institute of Technology

Development of Extensible Markup Language-Based Specification for Traffic Software Data Interchange, (02-2542)

Kenneth G. Courage, Scott S. Washburn, and Jin-Tae Kim, University of Florida

435

Tuesday, January 15, 3:45 p.m.-5:30 p.m., Hilton

Bus Operating Strategies

David J. Sampson, Urbitran Associates, Inc., presiding

Sponsored by Committee on Bus Transit Systems

O-Bahn Busway: Adelaide's Experience, (02-2942)

Lee H. Rogers, International Transport Planning

Analysis of Florida Transit Bus Crashes, (02-2392)

Joel R. Rey, Dennis P. Hinebaugh, and Jose Manuel Fernandez, University of South Florida

Making Urban Transit Systems Sustainable Around the World: Getting Many Birds with One Bus?, (02-3573)

Lee J. Schipper, International Energy Agency, France

Platform Layout for New Britain to Hartford Busway, (02-2336)

Kari Edison Watkins and Timothy Sorenson, Wilbur Smith Associates; Norman W. Garrick, University of Connecticut

436

Tuesday, January 15, 3:45 p.m.-5:30 p.m., Hilton

At the Crossroads of Technology and Privacy

Jean L. Wolf, GeoStats and Georgia Institute of Technology, presiding

Sponsored by Committee on Travel Survey Methods; Committee on Urban Transportation Data and Information Systems; Committee on Spatial Data and Information Systems; and Committee on Photogrammetry, Remote Sensing, Surveying and Related Automated Systems

Attitudes About Privacy

Brad Edmonson, ePodunk, Inc.

Legislative Directions

Jason M. Conley, ITS America

Location Privacy

Harlan Onsrud, University of Maine

Data Accessibility

Ricardo Martinez, Georgia Institute of Technology

437

Tuesday, January 15, 3:45 p.m.-5:30 p.m., Hilton

Freight Issues, Needs, and Responses: A Decade of Experience After ISTEA--Freight and Public Involvement, Part 4 (Part 1, Session 315; Part 2, Session 357; Part 3, Session 400; Part 5, Session 513; Part 6, Session 551)

Christina S. Casgar, Foundation for Intermodal Research and Education, presiding

Sponsored by Committee on Public Involvement in Transportation; Committee on Urban Freight Transportation; Committee on Freight Transportation Planning and Logistics; Committee on Intermodal Freight Transport; and Committee on Intermodal Freight Terminal Design and Operations

Public Involvement for Freight Mobility Planing in FASTrucks

Dan Pike, Washington State Department of Transportation; Michael R. Mariano, Mariano & Associates Consulting, PLLC

Value of Freight to State of New Jersey: Explaining Freight to Nontransportation Professionals

Anne Strauss-Wieder, A. Strauss-Wieder, Inc.

Working with Affected Communities: Alameda Corridor

Arthur B. Goodwin, Alameda Corridor Transportation Authority

Common Themes in Public Outreach in Six Cases in NCHRP Report 8-34: Financing and Improving Land Access to U.S. Cargo Hubs

Isaac Shafran, Louis Berger & Associates, Inc.

Tuesday, January 15, 5:30 p.m.-9:00 p.m., Marriott

Video Theatre: Pedestrians and Bicycles

Elise Bremer-Nei, New Jersey Department of Transportation, presiding

Sponsored by Committee on Pedestrians and Committee on Bicycling

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Tuesday, January 15, 5:30 p.m.-7:30 p.m., Hilton

Dialogue with Vukan R. Vuchic: Livable Cities--Special Challenge for Transportation Professionals

Patricia V. McLaughlin, Moore Iacofano Goltsman, presiding

Sponsored by Group I Council, Transportation Systems Planning and Administration

Quality of life and economic efficiency of cities depend greatly on their transportation systems. To achieve livable cities, transportation professionals face the complex problems of contemporary society. They must balance short-term solutions with long-range plans and reconcile interests of individual users with overall system efficiency. While planning and operating complex engineering systems, they must solve economic aspects and meet broad social goals.

Success stories and destructive influences in this field will be critically reviewed. Obstacles being faced and possible solutions will be discussed. Presenting some of his personal experiences, the speaker will challenge the audience to increase their role in improving urban areas, respond to public interest, defend it, and provide leadership toward long-range goals.

Panel Discussion

Vukan R. Vuchic, University of Pennsylvania

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Tuesday, January 15, 5:30 p.m.-7:30 p.m., Hilton

Meet the Experts

Philip K. Miller, King County Department of Transportation, presiding

Sponsored by Committee on Bicycling

This session will provide an opportunity to informally meet and talk with an outstanding expert about bicycle facilities and planning.

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Tuesday, January 15, 7:30 p.m.-9:30 p.m., Marriott

Construction Warranties: State of the Practice

Stuart D. Anderson, Texas A&M University System, presiding

Sponsored by Committee on Construction Management

Michigan Department of Transportation's Experience with Construction Contract Warranties

Steven Bower, Michigan Department of Transportation

Warranties: Wisconsin Experience

Steven W. Krebs, Wisconsin Department of Transportation

Arizona SR 66 Warranty Project

Larry A. Scofield, Arizona Department of Transportation

NM-44 and US-550: Warranty Status and Department of Transportation Perspective 2002

Allan L. Whitesel, New Mexico State Highway and Transportation Department; Mickey Hines, Koch Performance Roads, Inc.

441

Tuesday, January 15, 7:30 p.m.-9:30 p.m., Marriott

Measuring, Monitoring, and Simulating Traffic Systems

James L. Powell, Parsons Transportation Group, Inc., presiding

Sponsored by Committee on Traffic Signal Systems

Monitoring Commuter Congestion on Surface Streets in Real Time, (02-3182)

H. Joseph Perrin, Peter T. Martin, and Brad G. Coleman, University of Utah

Evaluation of Video Traffic Sensors for Intersection Signal Actuation: Methods and Metrics, (02-3920)

C. Arthur MacCarley, California Polytechnic State University; Joseph Palen, California Department of Transportation

Assessment of Three Traffic Simulation Models for Diamond Interchange Analysis, (02-2287)

Sangsoo Lee, Texas Transportation Institute; Carroll J. Messer, Texas A&M University System

Signalized Intersection Simulation in CORSIM and SIMTRAFFIC, (02-3716)

Chi Xie and Emily Parkany, University of Massachusetts, Amherst

Applications of Microscopic Simulation Model for Heterogeneous Traffic at Signalized Intersections, (02-3910)

Sarosh I. Khan, University of Colorado; Pawan Maini, Fitzgerald & Halliday Inc.

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Tuesday, January 15, 7:30 p.m.-9:30 p.m., Marriott

Arrow Panel and Dynamic Sign and Signal Displays

H. Gene Hawkins Jr., Texas Transportation Institute, presiding

Sponsored by Committee on Traffic Control Devices

Arrow Panel Display Evaluation in Temporary Work Zones, (02-2354)

Andrew Stephen Griffith and Joni E. Reid, Oregon Department of Transportation

Yellow Transition Lane Control Signal Symbols for Freeway Traffic Management, (02-2976)

Melisa D. Finley and Gerald L. Ullman, Texas Transportation Institute; Kelly Parma, Lee Engineering; Nada D. Trout, Texas Transportation Institute

Effect of Speed Monitoring Displays on Entry Ramp Speeds at Rural Freeway Interchanges, (02-2571)

Geza Pesti and Patrick T. McCoy, University of Nebraska, Lincoln

Interpretations of Time-Related Dynamic Message Sign Messages by Texas Drivers, (02-3152)

Nada D. Trout, Texas Transportation Institute; Conrad L. Dudek, Texas A&M University System; Gerald L. Ullman, Texas Transportation Institute

443

Tuesday, January 15, 7:30 p.m.-9:30 p.m., Marriott

Driver Alertness: Managing for Safety

S. William Gouse, Freightliner LLC, presiding

Sponsored by Task Force on Truck and Bus Safety

On-Board Monitoring of Driver Readiness: Does One Have the Advantage?

Gerald P. Kreuger, The Wexford Group International

Behavioral Power of On-Board Safety Monitoring

Ronald R. Knipling, Federal Motor Carrier Safety Administration

444

Tuesday, January 15, 7:30 p.m.-9:30 p.m., Marriott

Aggregate Shape Characterization

Scott Shuler, Lafarge, presiding

Sponsored by Committee on Mineral Aggregates; Committee on Characteristics of Nonbituminous Components of Bituminous Paving Mixtures; and Committee on Characteristics of Bituminous-Aggregate Combinations To Meet Surface Requirements

Wavelet-Based Three-Dimensional Descriptors of Aggregate Particles, (02-3173)

Hyounkwon Kim, Carl Haas, and Alan F. Rauch, University of Texas, Austin; Craig Browne, GeoSyntec Consultants

Quantification of Coarse Aggregate Angularity Based on Image Analysis, (02-3124)

Chetana B. Rao, ERES Consultants, Inc.; Erol Tutumluer and In Tai Kim, University of Illinois, Urbana-Champaign

Two-Dimensional Image-Based Volumetric Modeling for Crushed Limestone Aggregates, (02-2089)

Larry E. Banta, West Virginia University; Ken Cheng, Rapiscan Security Products, Inc.; John Zaniwski, West Virginia University

Measurements of Aggregate Texture and Its Influence on Hot-Mix Asphalt Permanent Deformation, (02-2880)

Eyad A. Masad, Thomas Fletcher, Chandan Chandan, and Krishna Sivakumar, Washington State University

445

Tuesday, January 15, 7:30 p.m.-9:30 p.m., Marriott

Application of New Technologies and Materials to Improve Work Zone Safety

Gerald L. Ullman, Texas Transportation Institute, presiding

Sponsored by Committee on Traffic Safety in Maintenance and Construction Operations

Methodology for Assessing the Impact of Radar Transmissions on a Work Zone, (02-3888)

Marcelo Gurgel Simas de Oliveira, Georgia Institute of Technology; Jonathan L. Geisheimer and Eugene F. Grenaker, Georgia Tech Research Institute; John D. Leonard II, Georgia Institute of Technology

Use of Operational Models to Evaluate Construction Staging Plans: Case Study, (02-3789)

Peter F. Kremer, Alfred W. Kotchi, Anthony J. DeJohn, and Kyle B. Winslow, Parsons Brinckerhoff, Inc.

What Is an Appropriate Sign Sheeting Specification for Prismatic Construction and Maintenance Signs?, (02-3175)

Stephen C. Birch, Virginia Transportation Research Council

Use of Signage and Blue Tubular Markers to Improve Access to Businesses During Construction, (02-2185)

Andrew Stephen Griffith and Joni E. Reid, Oregon Department of Transportation

Distribution and Characteristics of Crashes at Different Locations Within Work Zones in Virginia, (02-2132)

Nicholas J. Garber, University of Virginia; Zhao Ming, Gannett Fleming, Inc.

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Tuesday, January 15, 7:30 p.m.-9:30 p.m., Marriott

Uncertainty in Geotechnical Design

Glen E. Miller, Iowa Department of Transportation, presiding

Sponsored by Committee on Modeling Techniques in Geomechanics and Committee on Foundations of Bridges and Other Structures

Uncertainty in 15 Load and Resistance Factor Design Phi Factors for Driven Prestressed Concrete Piles, (02-3304)

Michael C. McVay, Thai Ngyugen, and Bjorn Birgisson, University of Florida; Ching L. Kuo, PSI

Theory of Acceptance Sampling for Production Piles, (02-3698)

Gregory Baecher and Bilal Ayyub, University of Maryland; Bjorn Birgisson, University of Florida

Calibration of Load and Resistance Factor Design Resistance Factors for Drilled Shaft Design, (02-3759)

Michael C. McVay, University of Florida; Ching L. Kuo, PSI; Bjorn Birgisson, University of Florida

Uncertainty Analysis for Seismic Warning System, (02-3774)

Allen L. Jones, Steven L. Kramer, Pedro Arduino, and Marc Eberhard, University of Washington

447

Tuesday, January 15, 7:30 p.m.-9:15 p.m., Marriott

Suspended and Revoked DWI Drivers: Review of Problems They Present and Measures to Deal with Them

James Nichols, National Highway Traffic Safety Administration , presiding

Sponsored by Committee on Alcohol, Other Drugs, and Transportation and Committee on Operator Education and Regulation

Overview of the Suspended Driver Problem

James Nichols, National Highway Traffic Safety Administration

Suspended and Revoked Drivers: Review of the Problem and Effectiveness of Vehicle Sanctions

David J. DeYoung, California Department of Motor Vehicles Research Branch

Extent and Motivations for Driving While Suspended: Observational Study

Anne T. McCartt, Preusser Research Group

Problems Posed by DWI Suspended and Revoked Drivers: Emphasis on Their Failure to Reinstate

Robert B. Voas, Pacific Institute for Research and Evaluation

448

Tuesday, January 15, 7:30 p.m.-9:30 p.m., Marriott

Measuring and Predicting Factors Affecting Portland Cement Concrete Pavement Performance

Dan K. Rozycki, The Transtec Group, Inc., presiding

Sponsored by Committee on Portland Cement Concrete Pavement Construction

Investigation of Thermachron I-Button for Early-Age and Long-Term Temperature Monitoring in Concrete Pavements, (02-3231)

Shantala V. Ramaiah, SVR, Inc.; Terry Dossey and B. Frank McCullough, University of Texas, Austin

Importance of Concrete Temperature Control During Concrete Pavement Construction in Hot Weather Conditions, (02-3636)

Anton K. Schindler and B. Frank McCullough, University of Texas, Austin

Constructing High-Performance Concrete Pavements Using FHWA HIPERPAV Systems Analysis Software, (02-3348)

Robert Otto Rasmussen, J. Mauricio Ruiz, Dan K. Rozycki, and B. Frank McCullough, The Transtec Group, Inc.

Evaluation of Concrete Pavement Construction Scenarios Under Performance-Related Specifications, (02-3180)

Nasir G. Gharaibeh, Joseph A. Stefanski, and Michael I. Darter, ERES Consultants, Inc.

449

Tuesday, January 15, 7:30 p.m.-9:30 p.m., Marriott

Pavement Temperature Corrections and Field Operations

Richard N. Stubstad, Consulpav International, presiding

Sponsored by Committee on Strength and Deformation Characteristics of Pavement Sections

Calculation of Asphalt Concrete Layer Temperatures for Falling Weight Deflectometer Analysis, (02-2704)

Ake Hermansson, Swedish National Road and Transport Research Institute

Temperature Corrections of Multiload Level Falling Weight Deflectometer Deflections, (02-2458)

Hee Mun Park and Y. Richard Kim, North Carolina State University; Sunwoo Park, Federal Highway Administration

Application of Rolling Dynamic Deflectometer to Project-Level Pavement Studies, (02-3834)

Jeffrey Lik Yeung Lee and Kenneth H. Stokoe, II, University of Texas, Austin; Michael R. Murphy, Texas Department of Transportation; Dan K. Rozycki, The Transtec Group, Inc.

Automated Dynamic Cone Penetrometer for Subgrade Resilient Modulus Characterization, (02-2039)

K. P. George and Ashraf M. Abdelrahim, University of Mississippi

450

Tuesday, January 15, 7:30 p.m.-9:30 p.m., Marriott

Transportation System Management

Gary R. Erenrich, ICF Consulting, presiding

Sponsored by Committee on Transportation System Management

Outcomes of a Politically Motivated Freeway Off-Ramp Closure, (02-2192)

Panos D. Prevedouros, University of Hawaii, Manoa

Surveyed and Simulated Anticipated Behavior of Commuters During Bridge Reconstruction, (02-3141)

Emily Parkany and Yanli Zhao, University of Massachusetts, Amherst

Toll Network Capacity Calculator : Operations Management and Assessment Tool for Toll Network Operators, (02-2868)

Marguerite L. Zarrillo, University of Massachusetts, Dartmouth; A. Essam Radwan, University of Central Florida; Joseph H Dowd, University of Massachusetts, Dartmouth

Development of Congestion Management System Methodology for Indiana State Highway Network, (02-2329)

Kasem Choocharukul and Kumares C. Sinha, Purdue University; John Nagle, Indiana Department of Transportation

Public Opinion and Traffic Impacts of Roundabouts, (02-3534)

Richard A. Retting, Insurance Institute for Highway Safety; Eugene R. Russell, Kansas State University; Gregory Luttrell, Southern Illinois University, Edwardsville

451

Tuesday, January 15, 7:30 p.m.-9:30 p.m., Marriott

Quality and Durability of Design-Build Bridge Projects

Joseph Showers, Parsons Brinckerhoff Quade and Douglas, Inc.; Martin P. Burke Jr., Burgess & Niple, Limited, presiding

Sponsored by Committee on General Structures and Committee on Construction of Bridges and Structures

Concrete Technology for Oresund Bridge

Ulf Jonsson, Industrial Division, Skansa, Sweden

Bridge Quality and Durability on I-15 Salt Lake City Reconstruction Project

Stephen M. Shive, Parsons Transportation Group, Inc.

Quality and Durability on Confederation Bridge Project, Prince Edward Island, Canada

Walter Eggers, J. Muller International

Admiral Claery Bridge, Pearl Harbor, Hawaii

Michael J. Abrahams, Parsons Brinckerhoff Quade and Douglas, Inc.

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Tuesday, January 15, 7:30 p.m.-9:30 p.m., Marriott
Foundations of Traffic Flow Theory: In Memory of Gordon Newell
Hani S. Mahmassani, University of Texas, Austin, presiding
Sponsored by Committee on Traffic Flow Theory and Characteristics

Panel Discussion

Nathan H. Gartner, University of Massachusetts

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Tuesday, January 15, 7:30 p.m.-9:30 p.m., Shoreham
Predicting and Specifying Asphalt Binder Performance
Robert Q. Kluttz, Kraton Polymers, presiding
Sponsored by Committee on Characteristics of Bituminous Materials

Measuring and Defining Fatigue Behavior, (02-3237)

Hussain U. Bahia and Sadi Kose, University of Wisconsin, Madison

Surface Energy Measurement of Asphalt and Its Application to Predicting Fatigue and Healing in Asphalt Mixtures, (02-2722)

DingXin Cheng, Dallas N. Little, Robert L. Lytton, and James C. Holste, Texas A&M University System

Zero Shear Viscosity of Asphalt Binders, (02-4113)

David A. Anderson, Pennsylvania State University; Jean-Pascal Planche, Yann Michel Le Hir, and Didier Martin, Centre de Reserche Elf Solaize, France

Performance-Graded Binder Specification for Surface Treatments, (02-2205)

Roberto Barcena, Texas Transportation Institute; Amy L. Epps, Texas A&M University System; Darren Hazlett, Texas Department of Transportation

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Tuesday, January 15, 7:30 p.m.-9:30 p.m., Shoreham

Advanced Modeling of Asphalt Mixture Behavior

Jo Daniel, University of New Hampshire, presiding

Sponsored by Committee on Characteristics of Bituminous Paving Mixtures To Meet Structural Requirements

Time-Temperature Superposition for Asphalt Concrete at Large Strains, (02-3769)

Charles W. Schwartz and Nelson Gibson, University of Maryland; Richard A. Schapery, University of Texas, Austin; Yiquan Hu, University of Maryland

Micromechanical Analysis of Viscoelastic Properties of Asphalt Concretes, (02-2474)

Thomas Papagiannakis, Ala R. Abbas, and Eyad A. Masad, Washington State University

Toward Micromechanics-Based Procedure to Characterize Fatigue Performance of Asphalt Concrete, (02-2841)

Guddati N. Murthy, Zhen Feng, and Y. Richard Kim, North Carolina State University

Prediction of Viscoelastic Response and Crack Growth in Asphalt Mixtures Using Boundary Element Method, (02-3345)

Bjorn Birgisson, Boonchai Sangpetngam, and Reynaldo Roque, University of Florida

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Tuesday, January 15, 7:30 p.m.-9:30 p.m., Shoreham

Fiber-Reinforced Plastic Materials: Construction Specifications and Use in Bridge Replacements

Issam E. Harik, Kentucky Transportation Center, presiding

Sponsored by Committee on Structural Fiber-Reinforced Plastics

Model Specification for Composites for Civil Engineering Structures, (02-2847)

Lawrence C. Bank, University of Wisconsin, Madison; T. Russell Gentry, Georgia Institute of Technology; Benjamin P. Thompson and Jeffrey S. Russell, University of Wisconsin, Madison

Advanced Fiber-Reinforced Plastic-Wood Composites in Transportation Applications, (02-3484)

Habib J. Dagher, Melanie M Bragdon, and Robert F. Lindyberg, University of Maine

Long-Term Performance Assessment of Composite Bridge, (02-4043)

Manoochehr Zoghi and Daniel Farhey, University of Dayton; Dean C. Foster, Butler County Engineers Office

NCHRP's Construction Specification and Process Control Manual for Fiber-Reinforced Plastic Bonded Repair of Concrete Structures

Amir Mirmiran, North Carolina State University; Mark E. Greenwood, Owens Corning

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Tuesday, January 15, 7:30 p.m.-9:30 p.m., Shoreham

Roadside Safety Features: Simulation

James C. Kennedy Jr., Battelle Memorial Institute, presiding

Sponsored by Committee on Roadside Safety Features

Improved Truck Model for Roadside Safety Simulation, Part I: Structural Modeling, (02-2373)

John D. Reid, University of Nebraska, Lincoln; Dhafer Marzougui, National Crash Analysis Center

Improved Truck Model for Roadside Safety Simulations, Part 2: Suspension Modeling, (02-3013)

Paolo Tiso, Chuck A. Plaxico, and Malcolm H. Ray, Worcester Polytechnic Institute; Dhafer Marzougui, National Crash Analysis Center

Development of Low-Profile Work Zone Barrier Using Impact Finite Element Simulation, (02-3997)

Gary R. Consolazio, Jae H. Chung, and Kurtis R. Gurley, University of Florida

Development and Evaluation of LS-DYNA Wood Material Model for Roadside Safety Applications, (02-2956)

Yvonne D. Murray, APTEK, Inc.; John D. Reid, University of Nebraska, Lincoln

Tests and Simulation of W-Beam Rail-to-Post Connection, (02-2549)

Chuck A. Plaxico, Malcolm H. Ray, and Fausto Mozzarella, Worcester Polytechnic Institute

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Tuesday, January 15, 7:30 p.m.-9:30 p.m., Shoreham

Streamlining Government Processes

Kent Penney, Nebraska Department of Aeronautics, presiding

Sponsored by Committee on Intergovernmental Relations in Aviation and Task Force on Environmental Impacts of Aviation

Panel Discussion

Lawrence F. Cunningham, University of Colorado, Denver; Alan Thompson, Southern California Association of Governments; Lynne Sparks Pickard, Federal Aviation Administration

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Tuesday, January 15, 7:30 p.m.-9:30 p.m., Shoreham

Airport Terminal Issues

John S. Miller, Virginia Transportation Research Council, presiding

Sponsored by Committee on Airport Terminals and Ground Access

Parking Capacity Requirements for Relocated Airports: New Athens International Airport, (02-2338)

Voula Psaraki, Anthony Stathopoulos, and Costas Abakoumkin, National Technical University of Athens, Greece

User-Perceived Level-of-Service Evaluation Model for Airport Baggage Handling Systems, (02-2962)

Joanne Pagani, A. O. Abd El Halim, and Yasser Hassan, Carleton University, Canada; Said M. Easa, Lakehead University, Canada

Airport Terminal Signs: Use of Advance Guide Signs to Speed Search Times, (02-3059)

Reddy S Kichhanagari, Rosa DeRamus-Motley, Susan A. Duffy, and Donald Lloyd Fisher, University of Massachusetts, Amherst

Evaluating Performance of Baggage-Claim Facilities at Airports, (02-3324)

Jin-Ru Yen, Ching-Wu Chu, and Jo-Lan Huang, National Taiwan Ocean University

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Tuesday, January 15, 7:30 p.m.-9:30 p.m., Hilton

Innovations in Statewide and Corridor Planning

Susan P. Mortel, Michigan Department of Transportation, presiding

Sponsored by Committee on Statewide Multimodal Transportation Planning

Interregional Corridors: Prioritizing and Managing Critical Connections Between Minnesota's Economic Centers, (02-3252)

David Karl Montebello, SRF Consulting Group, Inc.

Multimodal Investment Choice Analysis for Washington State Transportation Projects: Phase 1 Results, (02-3902)

Rhonda Kae Young, Jennifer A. Barnes, and G. Scott Rutherford, University of Washington

Internet Outreach in Statewide Long-Range Planning: New Jersey Experience, (02-3755)

Pamela Lebeaux, Parsons Brinckerhoff Quade and Douglas, Inc.; Joseph Meheski, New Jersey Department of Transportation; Jennifer Stuart, Parsons Brinckerhoff Quade and Douglas, Inc.; Robin Christians, Company 39

Linkage Between Statewide Planning and Capital Programming

Thomas B. Brigham, Alaska Department of Transportation and Public Facilities

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Tuesday, January 15, 7:30 p.m.-9:30 p.m., Hilton

Symposium on Transportation and Sustainability, Part 5: Sustainable Transport and CO₂ Emissions--Two Birds with One Bus (Part 1, Session 321; Part 2, Session 362; Part 3, Session 390; Part 4, Session 427)

Walter Vergara, World Bank, presiding

Sponsored by Committee on Transportation Energy; Task Force on Transportation and Sustainability; and Committee on Alternative Transportation Fuels

Panel Discussion

Lewis M. Fulton, International Energy Agency, France; Florencia Serrania, Societat de Transportes Electricas, Mexico; James Ortner, Orange County Transportation Authority; Dana Lowell, New York City Transit; Jim de la Loza, Los Angeles County Metropolitan Transportation Authority

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Tuesday, January 15, 7:30 p.m.-9:30 p.m., Hilton

Introduction, Evaluation, and Application of Artificial Intelligence Methods

Gary S. Spring, University of Missouri, Rolla, presiding

Sponsored by Committee on Artificial Intelligence

Analyzing Different Fuzzy Traffic Signal Controllers for Isolated Intersections, (02-3450)

Maria Alice Jacques, Jarkko Niittymaki, and Matti Pursula, Helsinki University of Technology, Finland

Impact of Irrelevant Attributes on Performance of Classifier Systems in Generating Activity Schedules, (02-2072)

Elke Moons and Geert Wets, University of Limburg, Belgium; Koen Vanhoof, Eindhoven University of Technology, Netherlands; Marc Aerts, University of Limburg, Belgium; Theo Arentze and Harry Timmermans, Eindhoven University of Technology, Netherlands

Applicability of Agent-Based Modeling Concept to Modeling of Transportation Phenomena, (02-2539)

Shinya Kikuchi, University of Delaware; Jongho Rhee, Kyonggi University, Korea; Dusan Teodorovic, Virginia Polytechnic Institute and State University

Using Multivariate Adaptive Regression Splines in Pavement Roughness Prediction, (02-2522)

Nii O. Attoh-Okine and Stephen Mensah, University of Delaware; M. Nawaiseh, Florida International University

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Tuesday, January 15, 7:30 p.m.-9:30 p.m., Hilton

Waste Management in Transportation: Challenges Being Faced by Transportation Leaders

Robert E. Tatman, R.D. Zande & Associates, Inc., presiding

Sponsored by Committee on Waste Management in Transportation

Use of Accelerated Aging to Predict Future Physical and Environmental Behavior of Recycled Materials in Concrete Pavements: Comparison of Laboratory-Aged Samples with Field Pavements, (02-2452)

T. Taylor Eighmy, University of New Hampshire; Kenneth C. Hover, Cornell University; David Gress, Ray Cook, Tony Coviello, and Jean Spear, University of New Hampshire; Susannah Hobbs and Roberto Pinto, Cornell University; David Kosson and Florence Sanchez, Vanderbilt University; Hans van der Sloot, Netherlands Energy Research Foundation; Charles Korhonen, U.S. Army Corps of Engineers; Marcia Simon, Federal Highway Administration

Oil Spill Contingency Plan and Response Capabilities in Malaysia and South Florida, (02-3542)

Fazil T. Najafi and Feng Liu, University of Florida

Review of States' Environmental Policies for Using Traditional or Recycled Materials in Roadway Construction and Environmental Characteristics of Traditional Materials Used in Texas, (02-3822)

Audra Nicole Morse and Phillip T. Nash, Texas Tech University; Rebecca Davio, Texas Department of Transportation

Redeveloping Brownfields with Federal Transportation Funds, (02-3947)

William L. Schroeer, ICF Consulting; Geoffrey Anderson and Carlton Eley, Environmental Protection Agency

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Tuesday, January 15, 7:30 p.m.-9:30 p.m., Hilton

Considering Land Use as a Regional Transportation and Air Quality Solution

Michael Culp, Federal Highway Administration, presiding

Sponsored by Committee on Transportation and Land Development

Panel Discussion

Alan Clark, Houston Galveston Area Council; Dan Reuter, Atlanta Regional Commission; Mike Sims, North Central Texas Council of Governments; Gordon Garry, Sacramento Area Council of Governments; G. Bruce Douglas, Parsons Brinckerhoff Quade and Douglas, Inc.; Michael Culp, Federal Highway Administration

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Tuesday, January 15, 7:30 p.m.-9:30 p.m., Hilton

Telework and Beyond

Joanne H. Pratt, Joanne H. Pratt Associates, presiding

Sponsored by Committee on Telecommunications and Travel Behavior

Teleworkers, Trips, and Telecommunications: Technology Drives Telework But Does It Reduce Trips?, (02-3166)

Joanne H. Pratt, Joanne H. Pratt Associates

Putting in Perspective the Contribution of Transportation to Environmental Effects of Telework, (02-3360)

Erasmia Kitou, Arpad Horvath, and Eric Masanet, University of California, Berkeley

Long-Term Effects of Teleworking on Location Decisions and Travel Behavior

Carsten Gertz, Technical University of Hamburg-Harburg, Germany

Can Online Grocers Deliver? Some Logistics Considerations, (02-2605)

Iris I-Yin Lin and Hani S. Mahmassani, University of Texas, Austin

Assessing Telecommunications-Facilitated Impacts on Access, (02-3932)

Kimberly J. Wells, Claremont Graduate University Research Institute; Frank Douma, University of Minnesota

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Tuesday, January 15, 7:30 p.m.-9:30 p.m., Hilton

Bus Operations

Frank L. Spielberg, SG Associates, Inc., presiding

Sponsored by Committee on Bus Transit Systems

Design and Implementation of Bus Holding Control Strategies Under Real-Time Information, (02-2325)

Liping Fu and Xuhui Yang, University of Waterloo, Canada

Simulation Study of Pilgrim Transportation in the Nafrah Phase of Hajj Using Shuttle Buses, (02-2583)

Osama IY Abduh, Ministry of Communications, Saudi Arabia; Hussam Mohamed Soliman, King Saud University, Saudi Arabia

Modeling Approach for Transit Signal Preemption, (02-3861)

Bhuwan Bhaskar Agrawal, Northwestern University; Steven Travis Waller, University of Illinois, Urbana-Champaign; Athanasios Ziliaskopoulos, Northwestern University

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Tuesday, January 15, 7:30 p.m.-9:30 p.m., Hilton

Environmental Justice and Community Impact Assessment

George D. Mazur, Cambridge Systematics, Inc., presiding

Sponsored by Task Force on Environmental Justice in Transportation

Panel Discussion

Leigh Lane, North Carolina Department of Transportation; Marc Brenman, U.S. Department of Transportation; Greg King, California Department of Transportation; Jacquelyne Grimshaw, Center for Neighborhood Technology

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Tuesday, January 15, 7:30 p.m.-9:30 p.m., Hilton

Vehicle-Highway Automated Systems: In-Vehicle and Collision Avoidance Systems

Steven E. Shladover, University of California, Berkeley, presiding

Sponsored by Committee on Vehicle-Highway Automation

Functional Requirements and Operational Algorithms for In-Vehicle Dilemma Zone Warning System at Signalized Intersections, (02-2313)

Young J. Moon, Korea Transport Institute

Analysis of Infrastructure Collision Avoidance Concept for Straight Crossing Path Crashes at Signalized Intersections, (02-3798)

Robert Ferlis, Federal Highway Administration

Operations Concept for Inexpensive, Infrastructure-Based Collision Avoidance System for Crashes Involving Left Turns Across the Path of Opposite-Direction Traffic, (02-3846)

Bryon Joshua White and Kimberly A. Eccles, BMI

Approach to User Acceptance of New Technology, (02-4079)

Mary Donahue Stearns, Wassim G. Najm, and Linda Boyle, Volpe National Transportation Systems Center

Transmitted Bandwidth and Bit Error Probability of Safety Warning System, (02-2785)

Jonathan L. Geisheimer and Eugene F. Greneker, Georgia Tech Research Institute

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Tuesday, January 15, 7:30 p.m.-9:30 p.m., Hilton

Multidisciplinary Transportation Education: Theory and Practice

Elaine E. Joost, U.S. Department of Transportation, presiding

Sponsored by Committee on Transportation Education and Training

New Master of Science Degree Program at Massachusetts Institute of Technology, (02-3581)

Joseph M. Sussman and Cynthia Barnhart, Massachusetts Institute of Technology

Reflections on Designing an Educational Program for the Future Transportation Workforce, (02-3664)

Steven E. Polzin and Beverly G. Ward, University of South Florida

New Model for Applied University Research and Professional Development: Tren Urbano Program, (02-4005)

Jose M. Izquierdo-Encarnacion, Puerto Rico Department of Transportation and Public Works; Lydia Elena Mercado, DMJM+HARRIS; Benjamin Colucci, University of Puerto Rico, Mayaguez; Frederick P. Salvucci and Nigel H. M. Wilson, Massachusetts Institute of Technology

Pavement Design, Construction, and Materials Enterprise at Michigan Technological University, (02-4021)

George R. Dewey, James W. Boggs, Ronald Christopher Williams, and Kris G. Mattila, Michigan Technological University

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Tuesday, January 15, 7:30 p.m.-9:15 p.m., Hilton

Automobile Ownership and the Social and Economic Impacts of Travel

Amy A. O'Leary, Virginia Transportation Research Council, presiding

Sponsored by Committee on Social and Economic Factors of Transportation

Economic Impacts of Highway Relief Routes on Small Communities: Case Studies from Texas, (02-3622)

Susan Handy, Scott Kubly, and Michael Oden, University of Texas, Austin

Analysis of the Impact of Sport Utility Vehicles in the United States, (02-2523)

Stacy Cagle Davis and Lorena F. Truett, Oak Ridge National Laboratory

Automobile Ownership, Autoless Households, and Urban Traffic Parameters: Are They Related?, (02-2429)

Matthew G. Karlaftis and John Golias, National Technical University of Athens, Greece

Nonwork Travel Patterns of Low-Income Households in Austin, Texas, (02-2397)

Kelly J. Clifton, University of Iowa

Wednesday, January 16

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Wednesday, January 16, 8:00 a.m.-9:45 a.m., Marriott

Operational Analysis Tools

Haitham M. Al-Deek, University of Central Florida, presiding

Sponsored by Committee on Freeway Operations

Use of Local Lane Distribution Patterns to Estimate Missing Data Values from Traffic Monitoring Systems, (02-2965)

Brian Lee Smith and James H Conklin, University of Virginia

Freeway Performance Measurement System): Operational Analysis Tool, (02-3679)

Alexander Skabardonis, University of California, Berkeley; Tom Choe, California Department of Transportation; Pravin P. Varaiya, University of California, Berkeley

Diagnostic Freeway Measure of Effectiveness Monitoring System via Intelligent Transportation System Data, (02-2467)

Heng Wei, Ken Qingyan Yang, James C. Barbaresso, and Jeffrey R. Manring, Iteris, Inc.

Transferability of Stochastic Toll Plaza Computer Model, (02-2912)

Haitham M. Al-Deek, University of Central Florida

Evaluation of Traffic Flow Analysis Tools Applied to Work Zones Based on Flow Data Collected in the Field, (02-3402)

Jeffrey Mohror, Fuat Aktan, and Thomas Schnell, University of Iowa

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Wednesday, January 16, 8:00 a.m.-9:45 a.m., Marriott

Vision for Statistical Methods in Transportation

Clifford Spiegelman, Texas A&M University System, presiding

Sponsored by Committee on Statistical Methodology and Statistical Computer Software in Transportation Research

Vision for Statistical Methods in Transportation

Michael S. Griffith, Federal Highway Administration; Simon Washington, University of Arizona; Ashish Sen, Bureau of Transportation Statistics; Jerome Sacks, National Institute of Statistical Sciences; John E. Orban, Battelle; Clifford Spiegelman, Texas A&M University System

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Wednesday, January 16, 8:00 a.m.-9:45 a.m., Marriott

Premature Cracking in Concrete Pavements, Part 1 (Part 2, Session 540)

Dennis A. Morian, Quality Engineering Solutions, Inc., presiding

Sponsored by Committee on Basic Research and Emerging Technologies Related to Concrete and Committee on Portland Cement Concrete Pavement Construction

Experiences in Slab Cracking on I-80

Terry Nye, Pennsylvania Department of Transportation

Performance of Early Entry Dry Cut Narrow Transverse Contraction Joints in Cracking Control of Concrete Pavement, (02-3190)

Hani Titi, University of Wisconsin, Milwaukee; Masood Rasoulia, Louisiana Transportation Research Center

Contractor Issues Related to Early Slab Cracking

Bob Prisby, American Concrete Pavement Association

Mechanisms of Plain Jointed Pavement Cracking

Shelley M. Stoffels, Pennsylvania State University

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Wednesday, January 16, 8:00 a.m.-9:45 a.m., Marriott

Innovations in Work Zone Traffic Control: Putting New Concepts and Research Results into Practice, Part I (Part 2, Session 541)

Shelley J. Row, Federal Highway Administration, presiding

Sponsored by Committee on Traffic Safety in Maintenance and Construction Operations

Full Closure Success Stories: I-65 and I-64 in Kentucky

J. M. Yowell, Kentucky Transportation Cabinet

Time-Related Bidding Provisions: Concepts and Overview of New York Experience

David L. Kent, New York State Department of Transportation

Standard Safety Specifications

Larry Liberatore, National Safety Council

Status of America's Work Zones: Results of State Department of Transportation Self-Evaluations

Mary Ridgeway, FHWA Missouri Division Office

504

Wednesday, January 16, 8:00 a.m.-9:45 a.m., Marriott

Construction Options for Roads over Poor Subgrades, Part 1 (Part 2, Session 542)

Maureen A. Kestler, USDA Forest Service, presiding

Sponsored by Committee on Soil and Rock Properties; Committee on Frost Action; Committee on Low-Volume Roads; and Committee on Geosynthetics

Field Evaluation of Construction Alternatives for Roadway over Soft Subgrade, (02-3808)

Tuncer B. Edil, University of Wisconsin, Madison

Environmentally Friendly Rock Crushing

Anthony Edwards, USDA Forest Service

Expedient Road Construction over Very Soft Soil

Jeb Tingle, U.S. Army Corps of Engineers

Evaluation of Clay Stabilization with Lime and Cement Kiln Dust on Low-Volume Unpaved Roads

Glen Legere, Forest Engineering Research Institute of Canada

505

Wednesday, January 16, 8:00 a.m.-9:45 a.m., Marriott

Industry Perspectives on Hazardous Materials Transportation Safety

Dennis J. Ashworth, Chevron Phillips Chemical Company, presiding

Sponsored by Committee on Transportation of Hazardous Materials

Panelists in this session will discuss industry best practices and needs to better manage transportation safety along with the activities, actions, and needs to proactively improve the transportation of hazardous materials. The areas to be addressed include distribution risk management, emergency response, and community outreach.

Panel Discussion

Alfred LaCombe, Dupre Transport; James Tighe, Kirby Corporation; Cheryl Burke, Dupont Safety-Health-Excel Center; Mark Stehly, Burlington Northern Santa Fe Railway

506

Wednesday, January 16, 8:00 a.m.-9:45 a.m., Marriott

Next Steps for Safety in Planning, Part I (Part 2, Session 558)

Kathleen F. Hoffman, Federal Highway Administration, presiding

Sponsored by Committee on Transportation Safety Management; Committee on Statewide Multimodal Transportation Planning; and Committee on Intergovernmental Relations and Policy Processes

Safety in Planning Forums

Jill Hochman, Federal Highway Administration

Safety in Planning: State Department of Transportation Planning Perspective

Neil J. Pedersen, Maryland State Highway Administration

Safety in Planning: Metropolitan Planning Organization Perspective

Bob Kamm, Brevard Metropolitan Planning Organization

Safety in Planning: Governor's Representative for Highway Safety Perspective

Kathy Farnum, Michigan Office of Highway Safety Planning

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Wednesday, January 16, 8:00 a.m.-9:45 a.m., Marriott

Quality Control/Quality Assurance Specification Approaches

Peter Andrew Kopac, Federal Highway Administration, presiding

Sponsored by Committee on Management of Quality Assurance

Mathematical Modeling of Pavement Smoothness, (02-2223)

Richard M. Weed, New Jersey Department of Transportation

Procedure for Monitoring and Improving Effectiveness of Quality Assurance Specifications, (02-2443)

Sutharin Pathomvanich, Kasetsart University, Thailand; Fazil T. Najafi, University of Florida; Peter Andrew Kopac, Federal Highway Administration

Establishing Variability for Hot-Mix Asphalt Construction in Arkansas, (02-3169)

Kevin D. Hall and Stacy G. Williams, University of Arkansas

Development of Quality Control/Quality Assurance Specification for Structural Concrete, (02-3226)

W. James Wilde, The Transtec Group, Inc.; B. Frank McCullough and David W. Fowler, University of Texas, Austin

508

Wednesday, January 16, 8:00 a.m.-9:45 a.m., Marriott Current Topics in Managing Construction on Intermodal Projects

Orrin Riley, Orrin Riley, P.E., P.C., presiding

Sponsored by Committee on Construction Management

New Light Rail Line in Hudson and Bergen Counties, New Jersey

David Smith, STV Corporation

Freight Rail Projects for New York City

Alice Cheng, New York City Economic Development Corporation

Train to the Plane at New York's John F. Kennedy Airport

Ray Finnegan, Port Authority of New York and New Jersey

Restoring New York Harbor

Joseph Seebode, U.S. Army Corps of Engineers

509

Wednesday, January 16, 8:00 a.m.-9:45 a.m., Shoreham

Analyses and Modeling of Traffic Data

Richard B. Rogers, Texas Department of Transportation, presiding

Sponsored by Committee on Highway Traffic Monitoring

Development of Axle Load Distribution Model of Heavy Vehicles, (02-3407)

Yu-Ling Sung, Wei-Hsing Huang Huang, and Jyh-Dong Lin, National Central University, Taiwan

Comparison of Data Collected by Two Weigh-in-Motion Systems Monitoring Identical Traffic on the Same Segment of Roadway, (02-2997)

Curtis Dahlin and Margaret Chalkline, Minnesota Department of Transportation

Study of Traffic Data Needs for Saskatchewan Department of Highways and Transportation, (02-4053)

Andrew Guoxin Liu, Saskatchewan Highways and Transport, Canada; Satish Sharma, University of Regina, Canada; Tom Anderson, Saskatchewan Highways and Transport, Canada

Cumulative Traffic Prediction Method for LTPP Pavement Performance Models, (02-2221)

Christopher R. Byrum and Starr D. Kohn, Soil and Materials Engineers, Inc.

510

Wednesday, January 16, 8:00 a.m.-9:45 a.m., Shoreham

Flexible Pavement Analysis and Design

Richard W. May, Koch Materials Company, presiding

Sponsored by Committee on Flexible Pavement Design

Mechanistic Analysis of Top-Down Cracks in Asphalt Pavements, (02-2854)

Tunwin Svasdisant, Michael Robert Schorsch, Gilbert Y. Baladi, and Suwanna Pinyosunun, Michigan State University

Development of a Quick Reliability Method for Mechanistic-Empirical Asphalt Pavement Design, (02-3837)

Bruce Allen Chadbourn, Minnesota Department of Transportation

Developing Illinois' Extended Life Hot-Mix Asphalt Pavement Specifications, (02-2432)

Eric E. Harm and David L. Lippert, Illinois Department of Transportation

Methodology to Assess Impacts of Alternative Truck Configurations on Flexible Highway Pavement Systems, (02-3443)

Nabil Jamil Suleiman, University of North Dakota; Amiy Varma, North Dakota State University

511

Wednesday, January 16, 8:00 a.m.-9:45 a.m., Shoreham

Bridge Field Testing

J. Michael Stallings, Auburn University, presiding

Sponsored by Committee on Dynamics and Field Testing of Bridges

Experimental and Numerical Response of a 1915 Riveted Through-Girder Bridge, (02-2277)

Daniel Gattner Linzell, Deanna Lee Nevling, Adrian A. Kollias, and Jeffrey A. Laman, The Pennsylvania State University

Numerical Load Rating of Reinforced Concrete Compression Members as Exemplified by Connecticut Arch Bridges, (02-2889)

Wendy Lora Gottshall and Arjuna P Ranasinghe, Michael Baker, Jr., Inc.

Health Monitoring of Aged Concrete T-Beam Bridge Population in Pennsylvania, (02-3890)

F. Necati Catbas, Drexel Intelligent Infrastructure and Transportation Safety Institute; Oguzhan Hasancebi and Korhan Ciloglu, Drexel University; A. Emin Aktan, Drexel Intelligent Infrastructure and Transportation Safety Institute

Classification of Damaged and Repaired Bridge Beams Using Vibration Signatures, (02-2504)

John Shaw Owen, Steve R Pearson, Chuan Ming Tan, and Ban Seng Choo, University of Nottingham, United Kingdom

Strengthening and Testing of Church Street Bridge Pier Capbeam Using Bonded Fiber-Reinforced Plastic Composite Plates

Osman Y. Hag-Elsafi, R. Lind, and Sreenivas Alampalli, New York State Department of Transportation

512

Wednesday, January 16, 8:00 a.m.-9:45 a.m., Shoreham

Geometric Design and Safety Practices: Historical Perspective and Future Research Considerations

Karen Dixon, Georgia Institute of Technology, presiding

Sponsored by Committee on Geometric Design and Committee on Operational Effects of Geometrics

Methods Used to Acquire Geometric Design and Safety Data: Review of Current Practice and a Look Into the Future

Joseph E. Hummer, North Carolina State University

Bicyclist and Pedestrian Research Needs from an Engineering Perspective

Charles V. Zegeer, University of North Carolina, Chapel Hill

Review of Geometric Design and Safety Research: Progress to Date and Current Limitations

Douglas W. Harwood, Midwest Research Institute

Safety in Geometric Design

Ezra Hauer, University of Toronto, Canada

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Wednesday, January 16, 8:00 a.m.-9:45 a.m., Shoreham

Freight Issues, Needs, and Responses: A Decade of Experience After ISTE, Part 5: Freight Transportation and Economic Development (Part 1, Session 315; Part 2, Session 357; Part 3, Session 400; Part 4, Session 437; Part 6, Session 551)

Kathleen H. Quinn, Federal Highway Administration, presiding

Sponsored by Committee on Urban Freight Transportation; Committee on Freight Transportation Data; Committee on Transportation and Economic Development; Committee on Freight Transportation Planning and Logistics; Committee on Intermodal Freight Transport; and Committee on Intergovernmental Relations and Policy Processes

Freight and Economic Development at the Urban Planning Level

Arno Hart, Wilbur Smith Associates

Integrating Freight and Economic Development into Statewide Planning

Glen Weisbrod, Economic Development Research Group, Inc.

Linkages Between Freight Transportation Improvements and Economic Productivity and Growth

Sergio J. Ostria, ICF Consulting

514

Wednesday, January 16, 8:00 a.m.-9:45 a.m., Shoreham

Surface Freight Transportation Safety and Productivity: Mutual Coexistence?

Timothy P. Lynch, Motor Freight Carriers Association; Deborah M. Freund, Federal Motor Carrier Safety Administration, presiding

Sponsored by Committee on Freight Transport Regulation and Task Force on Trucking Industry Research

Panel Discussion

Michael H. Belzer, Wayne State University; Thomas M. Corsi, University of Maryland; Dean Croke, Circadian Technologies, Inc.; Thomas N. Hubbard, University of Chicago; Ian Savage, Northwestern University

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Wednesday, January 16, 8:00 a.m.-9:45 a.m., Shoreham

Inland Waterway Operations

Robert W. Portiss, Tulsa Port of Catoosa, presiding

Sponsored by Committee on Inland Water Transportation

Development of Generalized Waterway Simulation Model for Waterway Operation, (02-2194)

Shiaau-Lir Wang, University of Maryland; Paul M. Schonfeld, University of Maryland, College Park

Port of Pittsburgh Practicum Project: SmartBarge, (02-3725)

James R. McCarville, Port of Pittsburgh Commission

Feasibility of Container-on-Barge Network Along Texas Gulf Coast, (02-4007)

Rob Harrison and Michael Bomba, University of Texas, Austin

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Wednesday, January 16, 8:00 a.m.-9:45 a.m., Shoreham

Access Control Points and Evaluations

John W. Strahan, Kansas Department of Transportation, presiding

Sponsored by Committee on Eminent Domain and Land Use

Panel Discussion

Christopher Huffman, Kansas Department of Transportation; Brian Hutchins, Nevada Department of Transportation; Mark P. Hodgdon, New Hampshire Department of Justice; David J. Plazak, Iowa State University; Robin Marx, LandAmerica Onestop

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Wednesday, January 16, 8:00 a.m.-9:45 a.m., Shoreham

Strategic Planning for Airport Systems

Alan Thompson, Southern California Association of Governments, presiding

Sponsored by Committee on Aviation System Planning

Increasing Role of Secondary Airports in Multiairport Regions

James R. Gosnell, Southern California Association of Governments

Multimodal Integration to Connect Airports

Matthew A. Coogan, Consultant

Capacity Upgauging and Remote Parking and Bus Facilities

Richard F. Marchi, Airports Council International - North America

How Are Airport Context and Service Related to General Aviation Aircraft Operations?, (02-3286)

Peter A. Jolicoeur, Ricondo and Associates; Asad J. Khattak, University of North Carolina, Chapel Hill

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Wednesday, January 16, 8:00 a.m.-9:45 a.m., Hilton

Study of Corporate Average Fuel Economy Standards, Part 1: Effectiveness and Impact of CAFE Standards (Part 2, Session 556)

David L. Greene, Oak Ridge National Laboratory, presiding

Sponsored by Committee on Transportation Energy

Findings and Recommendations of National Research Council CAFE Study

Philip R. Sharp, Harvard University

Alternatives to CAFE

James L. Sweeney, Stanford University

Technology and Cost Analysis of the Potential to Improve Fuel Economy

K.G. Duleep, Energy and Environmental Analysis, Inc.

Potential for Fuel Economy Improvement to 2020

John B. Heywood, Massachusetts Institute of Technology

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Wednesday, January 16, 8:00 a.m.-9:45 a.m., Hilton

Pedestrian Safety: The Three E's

Michael Ronkin, Oregon Department of Transportation, presiding

Sponsored by Committee on Pedestrians

Enforcement

John Moffatt, Washington Traffic Safety Commission

Engineering

Laurie A. Gromala, City of Bellevue, Washington; Joy Riddell, Florida Atlantic University

Data-Based Approach to the 3 E's

David Henderson, Miami-Dade Metropolitan Planning Organization

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Wednesday, January 16, 8:00 a.m.-9:45 a.m., Hilton

European Union- North American Transportation Research Networks

Richard J. Weiland, Weiland Consulting Company, presiding

Sponsored by Committee on International Activities and Committee on Intelligent Transportation Systems

Thematic Networks in the European Union Research Programs

Keith Keen, David Callahan, and Juhani Jaaskelainen, European Commission, Belgium

European Union- North American Common Transportation Issues Thematic Network

STELLA Research Issues: European and North American Perspectives

Peter Nijkamp, Free University of Amsterdam, Netherlands; William R. Black, Indiana University

European Union-North American Common Transportation Issues Thematic Network

ATLANTIC Research Issues: European and North American Perspectives

John Miles, Ankerbold International Ltd., United Kingdom; Chelsea C. White, University of Michigan; William Johnson, Transport Research, Education & Development Services, Canada

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Wednesday, January 16, 8:00 a.m.-9:45 a.m., Hilton

Regulatory and Safety Issues in Ferry Operations

Raymond G. Deardorf, Washington State Ferries, presiding

Sponsored by Committee on Ferry Transportation

Controlling Air Pollution from Passenger Ferries: Cost-Effectiveness of Seven Technological Options, (02-2644)

Alex Farrell and James J. Corbett, Carnegie-Mellon University; James J. Winebrake, James Madison University

Ship Safety Issues Concerning Elderly or Disabled Passengers, (02-2968)

Claude Marin-Lamellet, INRETS-LESCOT, France

Passenger Vessel Access: Application of Advisory Committee Recommendations-- A Case Study, (02-3025)

David Scott Chapman, University of Delaware

522

Wednesday, January 16, 8:00 a.m.-9:45 a.m., Hilton

Advancing Public-Private Partnerships: New Developments

Frank J. Smith, Consultant, presiding

Sponsored by Committee on Taxation and Finance

San Miguel Parkway (SR-125)

Michael Schneider, Parsons Brinckerhoff Quade and Douglas, Inc.

SH-45 Toll Road Proposal Between Private Developers and Texas Department of Transportation

Richard Ridings, The HNTB Companies

Las Vegas Monorail

Greg Carey, Solomon Smith Barney Inc.

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Wednesday, January 16, 8:00 a.m.-9:45 a.m., Hilton

Using Archived Transit Data to Improve Operations Planning

Robert L. Bertini, Portland State University, presiding

Sponsored by Committee on Urban Transportation Data and Information Systems

Historical Perspective on Improving Transit Reliability

Herbert S. Levinson, Consultant

From Data to Quality: Using Detailed Service Information to Improve Transit Operation

Theo H. J. Muller, Delft University of Technology, Netherlands

Comparing Headway to Load Relationship Using Archived Automatic Vehicle Location and Automatic Passenger Counter Data

Steve Callas, Tri-Met

Spatial and Temporal Data Integration Using Archived Intelligent Transportation Systems Data

Thomas J. Kimpel, Portland State University

Lessons Learned: Things You Didn't Need to Think About When It Was Merely Automatic Vehicle Location

James W. Kemp, New Jersey Transit Corporation

524

Wednesday, January 16, 8:00 a.m.-9:45 a.m., Hilton

Fare Policy and Pricing

Janet E. Kraus, Mundle & Associates, Inc., presiding

Sponsored by Committee on Public Transportation Marketing and Fare Policy

Employer-Based Annual Transit Pass Programs: Survey of Current Practice in Public Transit Industry, (02-2802)

Joana Moreira Conklin, Rick Halvorsen, and Daniel M. Fleishman, Multisystems, Inc.;
Richard L. Oram, Commuter Check Services, Inc.

What Does a One-Month Free Bus Ticket Do to Habitual Drivers? Experimental Analysis of Habit and Attitude Change in Travel Mode Choice, (02-2723)

Satoshi Fujii and Ryuichi Kitamura, Kyoto University, Japan

Strategies to Increase Effectiveness of Commuter Choice Programs, (02-3940)

Michael D. Grant, Liisa Ecola, and William L. Schroeer, ICF Consulting

How Minimum Recovery Ratios Make "No Cents": Improved Financial Basis for Examining Fare Policy, (02-3661)

Clayton H. Lane, Parsons Brinckerhoff, Inc.

TCRP Fare and Marketing Research

Daniel M. Fleishman, Multisystems, Inc.

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Wednesday, January 16, 8:00 a.m.-9:45 a.m., Hilton

Impact of Information Technologies on Travel Behavior: Research Challenges and Data Needs

Susan Handy, University of Texas, Austin, presiding

Sponsored by Committee on Telecommunications and Travel Behavior and Committee on Traveler Behavior and Values

Panel Discussion

Robert J. Aiken, Cisco Systems, Inc.; Hani S. Mahmassani, University of Texas, Austin;
Patricia L. Mokhtarian, University of California, Davis; Ryuichi Kitamura, Kyoto University,
Japan

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Wednesday, January 16, 8:00 a.m.-9:45 a.m., Hilton

Use of Information Technology to Evaluate Cultural Resource Significance: Results of a Nationwide Study (NCHRP 8-40)

Gail D'Avino, Georgia Department of Transportation, presiding

Sponsored by Committee on Historic and Archeological Preservation in Transportation

Results of the NCHRP Study

Terry Klein and Mark Edwards, URS Corporation

State Department of Transportation Perspective

Robert Newbery, Wisconsin Department of Transportation

State Historic Preservation Office Perspective

Giovanna Pebbles, Vermont Division for Historic Preservation

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Wednesday, January 16, 8:00 a.m.-9:45 a.m., Hilton

Performance and Planning Issues

Peter L. Hathaway, Sacramento Area Council of Governments, presiding

Sponsored by Committee on Transportation Programming, Planning, and Systems Evaluation

New Jersey's Capital Investment Strategy: Case Study of Performance-Based Programming, (02-3061)

Mark L. Stout, New Jersey Department of Transportation

Performance Programming: Guiding Resource Allocation to Achieve Policy Objectives, (02-3722)

Sandra Straehl, Montana Department of Transportation; Lance A. Neumann, Cambridge Systematics, Inc.

Microsimulation, Freeway System Operational Assessment, and Project Selection in Southeast Wisconsin: Expanding the Vision, (02-3616)

John W. Shaw, Wisconsin Department of Transportation; Do Nam, Parsons Transportation Group, Inc.

Scenario Planning: Proposed Approach for Strategic Regional Transportation Planning, (02-3696)

Christopher Zegras and Joseph M. Sussman, Massachusetts Institute of Technology; Christopher Conklin, Vanasse, Hangen, Brustlin, Inc.

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Wednesday, January 16, 8:00 a.m.-9:45 a.m., Hilton

Current Issues in Commuter Rail Planning

Walter E. Zullig Jr., MTA Metro-North Railroad, presiding

Sponsored by Committee on Commuter Rail Transportation

Need for New Commuter Car Entranceway Design for Mixed High and Low Platforms, (02-2289)

Edward K. Morlok, University of Pennsylvania

Planning of Effective Commuter Services Using Train Performance Calculation Results, (02-2141)

Rongfang Liu, New Jersey Institute of Technology

Heuristic Analysis of Impacts of Commuter Rail Station Consolidation, (02-2299)

Cemal K. Ayvalik and Jotin Khisty, Illinois Institute of Technology

Commuter Rail Capacity Planning for Chicago Union Station Growth

R. Scott Goehri, HDR Engineering, Inc.; Andrew Cebula, CANAC, Inc.

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Wednesday, January 16, 8:00 a.m.-9:45 a.m., Hilton

Nonballasted Track for Rail Transit

William H. Moorhead, TRAMMCO, LLC, presiding

Sponsored by Committee on Rail Transit System Design

Construction DB High-Speed Rail Line, Frankfurt-Cologne

Alfred E. Shaw Jr, A. E. Shaw, Jr. Engineering

Track Construction Standards in New York City Transit Authority

Antonio Cabrera, New York City Transit Authority

Top-Down Construction and Direct Fixation

John Zuspan, Slattery Skanska Inc.

Nonballasted Track on Swiss Federal Railways

Christoph Hofmann, Swiss Federal Railways

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Wednesday, January 16, 8:00 a.m.-9:45 a.m., Hilton

Transit Capacity and Quality of Service Manual

Stephen J. Andrie, Iowa State University, presiding

Sponsored by Task Force on Transit Capacity and Quality of Service

Transit User's Perceptions of Automatic Vehicle Location Benefits, (02-4067)

Zhong-Ren Peng, University of Wisconsin, Milwaukee; Danlin Yu, University of Wisconsin, Milwaukee; Edward A. Beimborn, University of Wisconsin, Milwaukee

Quality Bus Corridors in Dublin, (02-3662)

Margaret M. O'Mahony, Trinity College Dublin, Ireland

Evaluation of Transit Operations: Data Applications of Tri-Met's Automated Bus Dispatching System, (02-2309)

James G. Strathman, Thomas J. Kimpel, and Kenneth J. Dueker, Portland State University; Richard L. Gerhart, Tri-Met

Service Quality: Developing Service Quality Index in Provision of Commercial Bus Contracts, (02-2077)

Peter R. Stopher, David A. Hensher, and Philip Bullock, University of Sydney, Australia

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Wednesday, January 16, 9:00 a.m.-noon, Marriott

Large Truck and Bus Safety Research (Poster Session)

Sponsored by Task Force on Truck and Bus Safety

MP-1 Evaluation of Truck Crashes on the National Network, (02-3793)

Janice R. Daniel, Rajat Rajbhandari, and Steven Chien, New Jersey Institute of Technology

MP-2 Commercial Truck Driver Simulation Training for Backing Maneuvers: Results of a Pilot Validation Study, (02-3985)

Gerard Meyer, Renee Slick, Daniel Peter Westra, Francois Bonhomme, Emmanuel Largent, and Nicolas Noblot, Carnegie Mellon Driver Training and Safety Institute

MP-3 Factors Influencing Truck Crashes on Roadways with Intersections, (02-3788)

Janice R. Daniel, Chuck Tsai, and Steven Chien, New Jersey Institute of Technology

MP-4 Scenario Analysis of Freight Vehicle Accident Risks in Taiwan, (02-3126)

Ming-Chih Tsai and Chien-Chih Su, National Kaohsiung First University of Science and Technology, Taiwan

MP-5 Study of Nebraska Truck Stops, Rest Areas, and Commercial Truck Drivers, (02-3277)

Aemal J. Khattak, John A. Gaber, and Sharon L. Gaber, University of Nebraska, Lincoln

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Wednesday, January 16, 9:00 a.m.-noon, Marriott

Methods and Models for Traffic Signal Optimization (Poster Session)

Sponsored by Committee on Traffic Signal Systems

MP-6 Dynamic Critical Block Length Determination with Platoon Dispersion Concept for Signal Coordination, (02-2159)

Liang-Tay Lin, Feng Chia University, Taiwan

MP-7 Neuro-Fuzzy Logic for Integrated Control of Signal Settings and Traffic Assignment, (02-2175)

Yaser E. Hawas, United Arab Emirates University

MP-8 Progression Bandwidth Optimization Using Genetic Algorithms, (02-2389)

Vijay Gopal Kovvali, Carroll J. Messer, Nadeem A. Chaudhary, and Chi-Leung Chu, Texas A&M University System

MP-9 Evaluating Effectiveness of New Features in TRANSYT-7F, Version 9.2, (02-3053)

Adel W. Sadek and Charles Mark, University of Vermont

MP-10 Dynamic Signal Coordination on Oversaturated Intersection Networks, (02-3261)

Monty Girianna and Rahim F. Benekohal, University of Illinois, Urbana-Champaign

MP-11 Evaluation of Signal Timing Optimization Software: SYNCHRO and PASSER II, (02-3315)

Suleiman A. Ashur, United Arab Emirates University

MP-12 Sensitivity Analysis of Genetic Algorithm Parameters in Traffic Signal Optimization, (02-3733)

Vijay Gopal Kovvali and Carroll J. Messer, Texas A&M University System

MP-13 Optimizing Diamond Interchanges in Oversaturated Conditions, (02-4030)

Vijay Gopal Kovvali, Carroll J. Messer, Nadeem A. Chaudhary, and Chi-Leung Chu, Texas A&M University System

Integrated Control Strategies for Surface Street and Freeway Systems, (02-2537)

Zong Z Tian, Kevin N. Balke, and Roelof J. Engelbrecht, Texas Transportation Institute; Laurence R. Rilett, Texas A&M University System

Wednesday, January 16, 9:00 a.m.-6:00 p.m., Hilton

Video Theatre: Bicycles and Pedestrians

John Madera, Delaware Valley Regional Planning Commission, presiding

Sponsored by Committee on Bicycling and Committee on Pedestrians

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Wednesday, January 16, 9:00 a.m.-noon, Hilton

Nonmotorized Transportation Research (Poster Session)

V. Setty Pendakur, University of British Columbia, Canada, presiding

Sponsored by Committee on Nonmotorized Transport and Related Issues in Developing Countries

Holistic Approach to Car-City Conundrum, (02-3539)

Mikel E Murga, LEBER, Spain

Incorporating the Nonmotorized Modes in a Mode Choice Model, (02-2709)

Suely da Penha Sanches, Federal University of Sao Carlos, Brazil; Fabiana Serra de Arruda, University of Sao Paulo, Brazil

Development of Speed-Flow Relationships for Heterogeneous Traffic, (02-3906)

Mahabubul Bari, Henry Rupiny Kerali, and J. B. Odoki, University of Birmingham, United Kingdom

Modal Shift Mechanism in Transition Period from Bicycle User to Automobile User, (02-3461)

Hiroataka Koike, Utsunomiya University, Japan; Akinori Morimoto, Yoshinori Takekoshi, and Mohsin J. Sarker, Utsunomiya University, Japan

Evaluation of Bikeways by Discriminant Analysis and Analytic Hierarchy Process, (02-3728)

Yoon-Ho Cho and Dong-hyun Lee, Chung-Ang University, Korea

Evaluating the Pedestrian Environment in Abu Dhabi, (02-2938)

Abdullah Salim Al-Kathairi, Abu Dhabi Municipality, United Arab Emirates; Rasin K Mufti and Atef M Garib, Abu Dhabi Municipality; Ibrahim El Sanhoury and Bradlee F. Williams, DeLeuw, Cather International Limited

How the Children Go to School in Taiwan: Case Study of Hsinchu City, (02-3459)

Shun-Cheng Wu, National Chiao Tung University, Taiwan; Hsin-Li Chang, National Cheng Kung University, Taiwan

Wednesday, January 16, 9:00 a.m.-noon, Hilton

Innovations in Transportation Pricing (Poster Session)

Sponsored by Committee on Taxation and Finance; Committee on Transportation and Economic Development; Committee on Transportation Economics; and Committee on Transportation Demand Management

HP-1 Road Pricing and Compensation for Delay, (02-2017)

David M. Levinson, University of Minnesota

HP-2 Updated Observations from State Route 91 Value-Priced Express Lanes, (02-2554)

Edward C. Sullivan, California Polytechnic State University

HP-3 Choice Models of Route, Occupancy, and Time of Day with Value-Priced Tolls, (02-2617)

Edward C. Sullivan, California Polytechnic State University; Jia Yan and Kenneth A. Small, University of California, Irvine

HP-4 Flexibility of Tolls for Optimal Flows in Networks with Fixed and Elastic Demand, (02-2721)

Claude Michel Penchina, University of Massachusetts, Amherst

HP-5 Using the Personal Taxation Regime to Encourage Modal Shift: International Review, (02-2796)

Stephen Potter and Marcus Paul Enoch, The Open University, United Kingdom; Tom Rye, Napier University, Scotland; Colin Black, WS Atkins, United Kingdom

HP-6 Evaluation of Road Pricing with Dynamic Network Models, (02-2970)

Fabrice Marchal, THEMA-UCP, France; Andre J. De Palma, University of Cergy-Pontoise, France

HP-7 Deriving Sound Institutional Solutions for Interurban Road Pricing Schemes in Europe, (02-3010)

Jose Manuel Viegas and Jorge Antunes, Consultores em Transportes, Portugal; Neuenschwander Rene, ECOPLAN, Switzerland

HP-8 Investigating Road Pricing with Land Use-Transport Interaction Models: Case of Auckland, New Zealand, (02-3032)

John E. Abraham and John Douglas Hunt, University of Calgary, Canada; Russell Jones, Auckland Regional Council, New Zealand

HP-9 Buying into the Bypass: Allowing Trucks to Pay to Use Ramp Meter Bypasses, (02-3042)

David M. Levinson and Satyanarayana Muthuswamy, University of Minnesota

HP-10 Road Use Pricing for Dublin?, (02-3452)

Eoin Alexander O'Cearbhaill and Margaret M. O'Mahony, Trinity College Dublin, Ireland

HP-11 Double Cordon Tolls in Urban Areas to Increase Social Welfare, (02-3531)

Georgina Santos, Cambridge University, United Kingdom

HP-12 Specification of Optimal Cordon Pricing Locations and Charges, (02-3533)

Anthony D. May, University of Leeds, United Kingdom

HP-13 Congestion Pricing's Conditional Promise: Promotion of Accessibility or Mobility?, (02-3632)

Jonathan Levine, University of Michigan; Yaakov Garb, Transport--Today and Tomorrow, Israel

HP-14 Comparison of High-Occupancy-Vehicle, High-Occupancy-Toll, and Truck-Only Lanes in Sacramento Region, (02-3648)

Caroline J. Rodier and Robert A. Johnston, University of California, Davis

HP-15 Commute Strategies, Choice Sets, and Revealed Strategy Choices in a Value-Priced Corridor, (02-3764)

Kimberley A. Mastako, California Polytechnic State University; Laurence R. Rilett, Texas A&M University System; Mark D. Hickman, University of Arizona; Edward C. Sullivan, California Polytechnic State University

HP-16 Design of User Charge for Heavy-Duty Vehicles on German Motorways Considering Objectives of Efficiency, Fairness, and Environmental Protection, (02-3806)

Werner Rothengatter and Claus Doll, University of Karlsruhe, Germany

HP-17 San Diego's I-15 Congestion Pricing: Traffic-Related Issues, (02-4169)

Janusz Supernak, San Diego State University; Jacqueline M. Golob, Jacqueline Golob Associates; Thomas F. Golob, University of California, Irvine; Christine Kaschade and Camilla Kazimi, San Diego State University; Eric N. Schreffler, ESTC; Duane L. Steffey, San Diego State University

HP-18 San Diego's I-15 Congestion Pricing: Attitudinal, Behavioral, and Institutional Issues, (02-4170)

Janusz Supernak, San Diego State University; Jacqueline M. Golob, Jacqueline Golob Associates; Thomas F. Golob, University of California, Irvine; Christine Kaschade and Camilla Kazimi, San Diego State University; Eric N. Schreffler, ESTC; Duane L. Steffey, San Diego State University

HP-19 Discrete Choice Models of Traveler Participation In Variable Pricing Programs, (02-2088)

Mark W. Burris and Ram M. Pendyala, University of South Florida; Chris Swenson, CRSPE, Inc.

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Wednesday, January 16, 9:00 a.m.-noon, Hilton

Information Technology Supporting Transportation (Poster Session)

Sponsored by Committee on Information Systems and Technology

HP-20 Application of Neural Networks and Neuro-Fuzzy Systems in Forecasting Trip Demand in Large Cities, (02-4111)

Yousef Shafahi, Sherif University of Technology, Iran; Mohamad Reza Farzaneh, Tehran University, Iran

HP-21 Exploring Artificial Neural Network Modeling Approach That Combines Accessibility and Mobility into a Single Trip Potential Index for Strategic Planning, (02-3973)

Antonio Nelson R. Silva, University of Sao Paulo, Brazil; Archimedes A. Raia Jr., Federal University of Sao Carlos, Brazil; Charlie Williams Rengifo Bocanegra, University of Sao Paulo, Brazil

HP-22 Integrated Sign Ordering System Through Networking and Rule-Based Applications, (02-3713)

Ping Yi, Yucheng Zhang, and Jianyun Li, University of Akron

HP-23 Lessons Learned in Requirements Development for Data Interoperability in a Regional Transportatio and Public Safety System, (02-3596)

Brian Lee Smith and Marc H. Evans, University of Virginia

HP-24 Measuring Variability in Traffic Conditions Using Archived Traffic Data, (02-3204)

Rod E. Turochy, Virginia Transportation Research Council; Brian Lee Smith, University of Virginia

HP-25 Investigating Incident Situation Using Data Mining, (02-2908)

Der-Hong Lee, Shin-Ting Jeng, and P. Chandrasekar, National University of Singapore

HP-26 Using Software and Internet Components for Technology Transfer of Engineering Criteria, (02-4082)

Robert Walker, U.S. Army Engineer Waterways Experiment Station; Don R. Alexander, U.S. Army Construction Engineering Research Laboratory

Wednesday, January 16, 9:00 a.m.-noon, Hilton

Modeling Transportation Networks (Poster Session)

Sponsored by Committee on Transportation Network Modeling

HP-27 Network State Estimation and Prediction for Real-Time Transportation Management Applications, (02-3659)

Moshe E. Ben-Akiva, Massachusetts Institute of Technology; Michel Bierlaire, Swiss Federal Institute of Technology; Didier Burton, Bose Corporation; Haris N. Koutsopoulos, Volpe National Transportation Systems Center; Rabi G. Mishalani, Ohio State University

HP-28 Microscopic Traffic Flow Modeling of Large Urban Networks, (02-2934)

Roland Trapp, RWTH Aachen, Germany

HP-29 Travel Time Minimization Versus Reserve Capacity Maximization in Network Design Problem, (02-2212)

Hai Yang and Judith Tau Tai Wang, Hong Kong University of Science and Technology

HP-30 Link- and Path-Based Traffic Assignment Algorithms: Computational and Statistical Study, (02-2900)

Der-Hong Lee and Yu Nie, National University of Singapore; Anthony Chen, Utah State University; Yuen Chau Leow, National University of Singapore

HP-31 Estimation of Time-Dependent Origin-Destination Demand and Route Choice from Link Flows, (02-2198)

Rong He and Alain Kornhauser, Princeton University; Bin Ran, University of Wisconsin, Madison

HP-32 Snow Emergency Vehicle Routing with Route Continuity Constraints, (02-3122)

Ali Haghani and Haiying Qiao, University of Maryland

HP-33 Travel Time Reliability with Risk-Sensitive Travelers, (02-2379)

Anthony Chen and Zhaowang Ji, Utah State University; Will Recker, University of California, Irvine

HP-34 Analytical Dynamic Traffic Assignment Model with Stochastic Network and Travelers' Perceptions, (02-3340)

Xianghong Liu, University of California, Irvine; Xuegang Ban and Bin Ran, University of Wisconsin, Madison; Pitu B. Mirchandani, University of Arizona

HP-35 Dynamic Approach to Online Traffic Modeling in Munich Metropolitan Network, (02-3448)

Filippo Logi, Marc Ullrich, and Hartmut Keller, Munich University of Technology, Germany

HP-36 Predicting Network Growth, (02-2798)

David M. Levinson and Ramachandra N. Karamalapati, University of Minnesota

HP-37 New Algorithm for Determining Minimum Time Path Trees in First-In, First-Out Time-Dependent Networks, (02-3397)

Ismail Chabini, Massachusetts Institute of Technology

HP-38 Modeling Competitive Transit and Road Traffic Information Services with Heterogeneous Endogenous Demand, (02-2211)

Hai Yang and Xiaoning Zhang, Hong Kong University of Science and Technology

HP-39 Uncoupled Method for Equilibrium-Based Linear Path Flow Estimator for Origin-Destination Trip Matrices, (02-2894)

Yu Nie and Der-Hong Lee, National University of Singapore

HP-40 Multiclass Continuous-Time Equilibrium Model for Departure Time Choice on Single Bottleneck Network, (02-3578)

Nanne J. Van Der Zijpp and Kaspar Koolstra, Delft University of Technology, Netherlands

HP-41 Combined Model for Time-Dependent Trip Distribution and Traffic Assignment, (02-2986)

Yue Li, University of Florida; Athanasios Ziliaskopoulos, Northwestern University; David E. Boyce, University of Illinois, Chicago

HP-42 Routing in Dynamic and Stochastic Transportation Network, (02-2284)

Rong He and Alain L. Kornhauser, Princeton University; Bin Ran, University of Wisconsin, Madison

HP-43 Reoptimization Algorithms for Minimum-Time Path Problems in Dynamic Networks, (02-4151)

Ismail Chabini, Massachusetts Institute of Technology

HP-44 Deterministic Semidynamic Network Assignment Model Using Transient Origin-Destination Matrices, (02-2447)

Theodore Tsekeris and Antony Stathopoulos, National Technical University of Athens, Greece

HP-45 Hybrid Dynamic Traffic Assignment Deployment Framework for Real-Time Route Guidance, (02-2279)

Srinivas Peeta, Purdue University; Chao Zhou, Sabre, Inc

HP-46 Convergence Characteristics of Equilibrium Travel Simulation Models, (02-3099)

W. Thomas Walker, Matthew T. Gates, and Glenn C. Standifer, Delaware Valley Regional Planning Commission

HP-47 Improved Genetic Algorithm-Simulation Methodology for Lane Closure Scheduling, (02-2902)

Ruey-Long Cheu and Wenteng Ma, National University of Singapore

HP-48 Development of High-Occupancy-Vehicle Lane Treatment Plan for Highway 401 in Toronto Using Microsimulation, (02-3642)

Basheer Mohammed, LEA Consulting Ltd., Canada; Amer Shalaby, Ryerson Polytechnic University, Canada; Baher Abdulhai, University of Toronto, Canada

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Wednesday, January 16, 9:00 a.m.-noon, Hilton

Bikes, Skates, and Pedestrians (Poster Session)

Sponsored by Committee on Bicycling and Committee on Pedestrians

HP-49 Inline Skate Traffic Flow Experiment, (02-2676)

Thomas Y.W. Kwan, G.D. Hamilton Associated Ltd., Canada; Vikki Ngan, Francis P.D. Navin, Joanne Ng, Stella Chow, Basse Clement, Laurel Richl, Connie Pui Ying Tang, Ven Taberbero, and Anooshi Hafezi, University of British Columbia, Canada

HP-50 Visitor Bicycle Use in Yosemite Valley, (02-2899)

Sean Albert Co, Santa Cruz County Regional Transportation Commission; Kenneth S. Kurani and Thomas Turrentine, University of California, Davis

HP-51 Simulating Pedestrian Activity Scheduling Behavior and Movement Patterns, (02-2488)

Jan Dijkstra, Joran Jessurun, and Harry Timmermans, Eindhoven University of Technology, Netherlands

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Wednesday, January 16, 10:15 a.m.-noon, Marriott

Future Directions in Highway Capacity Manual Concept of Level of Service

Adolf D. May Jr., University of California, Berkeley, presiding

Sponsored by Committee on Highway Capacity and Quality of Service

Evolution of the Concept of Level of Service

Wayne K. Kittelson, Kittelson & Associates, Inc.

Argument for Dropping Level of Service

Dennis W. Strong, Strong Concepts

Argument for Retaining Level of Service

Douglas W. Harwood, Midwest Research Institute

Discussants:

Roger P. Roess, Polytechnic University of New York; Mark Vandehey, Kittelson & Associates, Inc.

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Wednesday, January 16, 10:15 a.m.-noon, Marriott

Safety in Numbers: Critically Assessing Results of Safety Studies

Bhagwant Persaud, Ryerson Polytechnic University, Canada, presiding

Sponsored by Committee on Statistical Methodology and Statistical Computer Software in Transportation Research and Committee on Safety Data, Analysis, and Evaluation

Safety In Numbers: Critically Assessing Results of Safety Studies

Ezra Hauer and Mary L. Chipman, University of Toronto, Canada; Rune Elvik, Institute of Transport Economics, Norway

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Wednesday, January 16, 10:15 a.m.-noon, Marriott

Premature Cracking in Concrete Pavements, Part 2 (Part 1, Session 502)

Rick S. Norland, Diamant Boart, Inc., presiding

Sponsored by Committee on Basic Research and Emerging Technologies Related to Concrete and Committee on Portland Cement Concrete Pavement Construction

Characterization of Cracking Restraint at Sawcut Joints Using German Cracking Frame, (02-4107)

Shilpa Vepakomma and Dan G. Zollinger, Texas A&M University System; Jin-Hoon Jeong, Texas Transportation Institute

Early-Age Stress Development and Relaxation in Concrete Under Restrained Conditions

David A. Lange, University of Illinois, Urbana-Champaign

Influence of Concrete Strength on Cracking

W. Jason Weiss, Purdue University

Validating Top-Down Premature Transverse Slab Cracking in Jointed Plain Concrete Pavement

Will Hansen, University of Michigan

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Wednesday, January 16, 10:15 a.m.-noon, Marriott

Innovations in Work Zone Traffic Control: Putting New Concepts and Research Results into Practice, Part 2 (Part I, Session 503)

Shelley J. Row, Federal Highway Administration, presiding

Sponsored by Committee on Traffic Safety in Maintenance and Construction Operations

Recent Applications of Intelligent Transportation System Technology in Work Zones

Mark D. Robinson, SAIC

SWAT: Strategic Work-Zone Analysis Tools

Deborah Curtis, Federal Highway Administration

Quickzone: Work Zone Delay Estimation Tool

Jawad Paracha, Maryland State Highway Administration

Getting Traffic Through Major Urban Work Zones, Including Temporary Traffic Control for World Trade Center Recovery and Cleanup Effort

Craig Ruyle, New York State Department of Transportation

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Wednesday, January 16, 10:15 a.m.-noon, Marriott

Construction Options for Roads over Poor Subgrades, Part 2 (Part 1, Session 504)

Tuncer B. Edil, University of Wisconsin, Madison, presiding

Sponsored by Committee on Soil and Rock Properties; Committee on Frost Action; Committee on Low-Volume Roads; and Committee on Geosynthetics

Using Geotextiles over Poor Roadbeds

John Hopkins, Pennsylvania State University

Rapid Road Construction over Sandy Soils

Rosa Santoni, U.S. Army Corps of Engineers

Applications of Geosynthetics in Northern Minnesota

Walter Leu, Minnesota Department of Transportation

Structural Evaluation of Low-Strength Gravel Roads for Surfacing Design

Erland O. Lukanen, ERES Consultants, Inc.

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Wednesday, January 16, 10:15 a.m.-noon, Marriott

Application of Risk Factors to Transport of Hazardous Materials

Cheryl Burke, Dupont Safety-Health-Excel Center, presiding

Sponsored by Committee on Transportation of Hazardous Materials

Development of Inland Marine Transportation Risk Management Decision Support System, (02-2793)

James Pinckney Dobbins and Mark D. Abkowitz, Vanderbilt University

Nonaccident Release Risk Index Development, (02-3034)

H. R. "Skip" Elliott, CSX Transportation, Inc.; Tom Mitchell, AMEC Earth & Environmental, Inc.

Risk-Based Optimization Model to Locate Emergency Response Units for Dangerous Goods Movements, (02-2547)

Ghada Hamouda, Frank F. Saccomanno, and Liping Fu, University of Waterloo, Canada

Heuristic Algorithms for Solving Hazardous Materials Logistical Problems, (02-3802)

Konstantinos G. Zografos and Konstantinos N. Androutsopoulos, Athens University of Economics and Business, Greece

Routing Hazardous Materials with Stochastic, Dynamic Link Attributes: Case Study, (02-2375)

Tsung-Sheng Chang, Linda K. Nozick, and Mark A. Turnquist, Cornell University

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Wednesday, January 16, 10:15 a.m.-noon, Marriott

Traffic Enforcement: Work Zone, Crash Site Management, and Safety

Glenn A. Hansen, Howard County Police Department, presiding

Sponsored by Committee on Traffic Law Enforcement

Survey of State Law Enforcement Personnel on Work Zone Enforcement Practices, (02-3255)

Steven D. Schrock, Gerald L. Ullman, and Nada D. Trout, Texas Transportation Institute

Injury Crashes: Role of Law Enforcement, (02-2543)

Robert J. Eger III, University of Wisconsin, Milwaukee

Checklist for Highway Crash Site Management, (02-3994)

Jennifer R. Walton and Monica L. Barrett, Kentucky Transportation Center

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Wednesday, January 16, 10:15 a.m.-noon, Marriott

Quality Control/Quality Assurance Testing and Associated Variability

Gary L. Robson, American Concrete Pavement Association, presiding

Sponsored by Committee on Management of Quality Assurance

Variability of Concrete Materials Data in Long-Term Pavement Performance Program, (02-2439)

Shiraz D. Tayabji and Chung-Lung Wu, Construction Technology Laboratories, Inc.

Rotary Loaded Wheel Testing for Hot-Mix Asphalt Quality Control, (02-3820)

Chris Edgar, Regis Engineering Solutions, Inc.

Maturity Method Applied to Highway Construction: Kentucky Experience, (02-3999)

J. P. Mohsen, University of Louisville; Bernard L. Roach and Dav T. Kessinger, Kentucky Transportation Cabinet

Laboratory and Field Analysis of TransTech Model 300 Pavement Quality Indicator for Determining Asphalt Pavement Density, (02-4055)

John Joseph Hausman, ERES Consultants, Inc.; William G. Buttlar, University of Illinois, Urbana-Champaign

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Wednesday, January 16, 10:15 a.m.-noon, Marriott

Owner-Controlled Insurance Programs

Gerald Yakowenko, Federal Highway Administration, presiding

Sponsored by Committee on Construction Management

This session will provide an overview of the effectiveness of owner-controlled or wrap-up insurance programs currently being used by various transportation agencies on large construction projects.

Panel Discussion

Cliff J. Schexnayder, Arizona State University; George W. Tinker, Colorado Department of Transportation; Roy Mendelsohn, Parsons Brinckerhoff, Inc.; John Formosa, Federal Highway Administration; Art Herzog, Herzog Contracting Corporation

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Wednesday, January 16, 10:15 a.m.-noon, Shoreham

Equipment and Other Factors Affecting Traffic Monitoring

Alan Chachich, Massachusetts Institute of Technology, presiding

Sponsored by Committee on Highway Traffic Monitoring

Evaluation of Weigh-in-Motion for Intelligent Transportation System-Commercial Vehicle Operations Applications Using WESTA, (02-4184)

Curtis F. Berthelot and Derek B. Baker, University of Saskatchewan, Canada; Brian Taylor, International Road Dynamics, Inc.

Changes in Trucking That Affect Pavements, (02-3383)

Jerry J Hajek, ERES Division of Applied Research Associates, Canada; John R. Billing, Consultant, Canada

Encapsulant Material Effects on Fiber-Optic Traffic Sensor Response, (02-3003)

Paul J. Cosentino, Florida Institute of Technology; George William Criss IV, Boeing Company

Event Data-Based Traffic Detector Validation Tests, (02-3656)

Benjamin A. Coifman, Ohio State University

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Wednesday, January 16, 10:15 a.m.-noon, Shoreham

Flexible Pavement Performance Prediction

Jerry J. Hajek, ERES Division of Applied Research Associates, Canada, presiding

Sponsored by Committee on Flexible Pavement Design

WesTrack Fatigue Performance Prediction Using Miner's Law, (02-3311)

Bor-Wen Tsai, John T. Harvey, and Carl L. Monismith, University of California, Berkeley

Effect of Temperature Averaging on Predicted Pavement Life, (02-2640)

Gang Zuo, University of Tennessee, Knoxville; Roger W. Meier, University of Memphis; Eric C. Drumm, University of Tennessee, Knoxville

Prediction Models of Cracking, Roughness, and Raveling Developed in Brazil, (02-2386)

Jo'o Menescal Fabricio, ECL-Engenharia, Consultoria e Economia S.A., Brazil; Jo'o Pessoa Magalh'es, ECL-Engenharia, Consultoria e Economia S.A.; Cesar Queiroz, World Bank

Calibration of HDM-4 Structural Cracking Models for Asphalt Pavements, (02-2973)

Hernan de Solminihac, Pontificia Universidad Catolica de Chile

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Wednesday, January 16, 10:15 a.m.-noon, Shoreham

Recent Advances in Nondestructive Evaluation for Bridges

Steven B. Chase, Federal Highway Administration, presiding

Sponsored by Committee on Dynamics and Field Testing of Bridges

Recent Advances in Microimpulse Radar Tomography of Concrete Structures

Michael Scott, Wiss, Janney, Elstner Associates, Inc.

High-Energy Radiography of Bridges Using Portable X-Ray Linear Accelerator

Habeeb H. Saleh, Wiss, Janney, Elstner Associates, Inc.

Stress Concentration of Common Bridge Details Using Thermoelastic Imaging

Paul Fuchs, Fuchs Consulting

Acoustic Monitoring of Highway Structures

Michael Higgins, Pure Technologies Ltd.

Recent Developments in Fiber-Optic Sensors

Brooks Childers, Luna Innovations

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Wednesday, January 16, 10:15 a.m.-noon, Shoreham

Goals for Improving the Relationship Between Highway Geometric Design and Safety

John M. Mason Jr, Pennsylvania State University, presiding

Sponsored by Committee on Geometric Design and Committee on Operational Effects of Geometrics

Research Protocols and Aggregation of Data and Research

Jerome W. Hall, University of New Mexico

Canadian Experience in Safety Audits and Operational Safety Reviews and View of "Missing Links" after Release of Canadian Geometric Design Guide

John B.L. Robinson, Delphi Systems, Inc., Canada

Swedish Road Design and Safety from Vision Zero Perspective

Anders Lie, Swedish National Road Administration

United Kingdom Experiences and Future of Road Safety Audit Policy

John Smart, Highway Agency, United Kingdom

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Wednesday, January 16, 10:15 a.m.-noon, Shoreham

Freight Issues, Needs, and Responses: A Decade of Experience After ISTEA, Part 6: Public- and Private-Sector Responses (Part 1, Session 315; Part 2, Session 357; Part 3, Session 400; Part 4, Session 437; Part 5, Session 513)

Emil Frankel, U.S. Department of Transportation, presiding

Sponsored by Committee on Urban Freight Transportation; Committee on Freight Transportation Planning and Logistics; Committee on Intermodal Freight Transport; Committee on Freight Transportation Data; Committee on Intergovernmental Relations and Policy Processes; and Committee on Transportation and Economic Development

Financing Improved Landside Access to U.S. Cargo Hubs

Anne Strauss-Wieder, A. Strauss-Wieder, Inc.; Isaac Shafran, Louis Berger & Associates, Inc.

Public- and Private-Sector Responses

Michael W. Wickham, Roadway Express, Inc.; Robert E. Martinez, Norfolk Southern Corporation; Ronald Bates, City of Los Alamitos, California; Jean C. Godwin, American Association of Port Authorities; R. Leo Penne, American Association of State Highway and Transportation Officials

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Wednesday, January 16, 10:15 a.m.-noon, Shoreham

Full International Truck Operations Across the Mexican Border: Impacts on Drivers and Motor Carriers

Michael H. Belzer, Wayne State University, presiding

Sponsored by Task Force on Trucking Industry Research and Committee on Freight Transport Regulation

Panel Discussion

Timothy P. Lynch, Motor Freight Carriers Association; Todd Spencer, Owner-Operator Independent Drivers Association, Inc.; Michael Conyngham, International Brotherhood of Teamsters

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Wednesday, January 16, 10:15 a.m.-noon, Shoreham

U.S. Navigation Investment Needs for the Next 20 Years

John S. Doyle Jr., Waterways Work, presiding

Sponsored by Committee on Inland Water Transportation and Committee on Ports and Channels

The National Dredging Needs or Ports and Harbors Study

Philip J. Thorpe, Institute for Water Resources

Review of Inland Navigation Needs: Shipper and Carrier Perspectives

W. Norbert Whitlock, American Commercial Barge Line LLC

An Understandable, Powerful Planning Model for the International Lake Ontario-St Lawrence River Study

William J. Werick, USACE Institute for Water Resources

Budget Realities: Balancing the Corps Program with National Priorities

Barry Holliday, U.S. Army Corps of Engineers

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Wednesday, January 16, 10:15 a.m.-noon, Shoreham

Application of Advanced Traveler Information Technology to the Challenge of Airport Access

Matthew A. Coogan, Consultant, presiding

Sponsored by Committee on Airport Terminals and Ground Access

Passenger Information Strategies in Narita Airport's E-Airport Project

Ken Murayama, Narita Airport Authority, Japan

Strategies to Get Ticketing Information to the Passenger: Heathrow Express, Gatwick Express, and Stansted Express

Jeremy Job, Heathrow Express, United Kingdom

Development of Information Technology Solutions in Marketing of Arlanda Express

Jan Lundin, Nocom Travelutions AB, Sweden

Bringing Airport Information to the Rail Platform: Understanding User's Need for Passenger Information at Newark Airport Rail Station

Jerome M. Lutin, New Jersey Transit Corporation

A Response: The Role of Airports

Steven Van Beek, Airports Council International - North America

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Wednesday, January 16, 10:15 a.m.-noon, Shoreham

Modeling the Response of the Aviation System to Demand Management Strategies

Shomik Raj Mehndiratta, Charles River Associates, Inc., presiding

Sponsored by Committee on Aviation System Planning

Will Demand Management of Airport Operations Help Achieve Public Transportation Policy Objectives

John M. Rodgers, Federal Aviation Administration

Can Demand Management of Airport Operations be Implemented Under Existing Law, Grant Assurances, and Contracts

David L. Bennett, Federal Aviation Administration

Lessons from the LaGuardia Experience

Scott P. Lewis, Palmer & Dodge, LLP

Analyzing the Impact of Slot Controls: The case of San Francisco International Airport, (02-4101)

Shomik Raj Mehndiratta, Mark R. Kiefer, and George Eads, Charles River Associates, Inc.

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Wednesday, January 16, 10:15 a.m.-noon, Hilton

Study of Corporate Average Fuel Economy Standards, Part 2: Fuel Economy and Safety (Part 1, Session 518)

Noble Bowie, National Highway Traffic Safety Administration, presiding

Sponsored by Committee on Transportation and Air Quality

National Research Council CAFE Committee Majority's View

Adrian K. Lund, Insurance Institute for Highway Safety

National Research Council CAFE Committee Dissenting View

David L. Greene, Oak Ridge National Laboratory

Panel Discussion

Hans Joksch, University of Michigan Transportation Research Institute; Kenneth Campbell, Oak Ridge National Laboratory

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Wednesday, January 16, 10:15 a.m.-noon, Hilton

Critical Infrastructure Data Access Policy

David R. Fletcher, Geographic Paradigm Computing, Inc., presiding

Sponsored by Committee on Spatial Data and Information Systems

Balancing Need for Accessible Spatial Data with Security Concerns: Preliminary Thoughts from New York City

Ann B. Johnson, ESRI

Geographical Dimensions of Terrorism: Research Agenda for the Discipline

Douglas Richardson, Association of American Geographers

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Wednesday, January 16, 10:15 a.m.-noon, Hilton

Next Steps for Safety in Planning, Part 2 (Part I, Session 506)

Peter E. Plumeau, Wilbur Smith Associates, presiding

Sponsored by Committee on Transportation Safety Management; Committee on Statewide Multimodal Transportation Planning; and Committee on Intergovernmental Relations and Policy Processes

Safety in Planning Forums

Jill Hochman, Federal Highway Administration

Safety in Planning: State Department of Transportation Planning Perspective

Neil J. Pedersen, Maryland State Highway Administration

Safety in Planning: Metropolitan Planning Organization Perspective

Bob Kamm, Brevard Metropolitan Planning Organization

Safety in Planning: Governor's Representative for Highway Safety Perspective

Kathy Farnum, Michigan Office of Highway Safety Planning

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Wednesday, January 16, 10:15 a.m.-noon, Hilton

Data Quality: Examples in Traffic Data, Safety, and Military Applications

Kim Hajek, Texas Department of Transportation, presiding

Sponsored by Committee on Statewide Transportation Data and Information Systems

Real-Time Traffic Measurement from Single-Loop Inductive Signatures, (02-4148)

Seri Oh, Stephen G. Ritchie, and Cheol Oh, University of California, Irvine

Data Quality Evaluation of Integrated Data Repository on Motor Carrier Safety, (02-3960)

Piyushimita Thakuria and Jung Taek Lee, University of Illinois, Chicago

Lessons Learned in Requirements Development for Data Interoperability in a Regional Transportation and Public Safety System, (02-3571)

Marc H. Evans, University of Virginia

Using Spatial Information Technology to Enhance Military Transportation, (02-3495)

Jon Pollack, GeoDecisions; Paul Allred, Military Traffic Management Command; Patrick Michael Wright, GeoDecisions

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Wednesday, January 16, 10:15 a.m.-noon, Hilton

Ferry Planning and Market Analysis

Raymond G. Deardorf, Washington State Ferries, presiding

Sponsored by Committee on Ferry Transportation

Fast Vehicle Ferries for Alaska Marine Highway System, (02-3221)

Linda J. Dailey, The Glostien Associates, Inc.

Ferry Market Analysis: National Parks of New York Harbor, (02-3749)

Melissa M. Laube and Michael G Dyer, Volpe National Transportation Systems Center

Washington State Ferries Travel Demand Model Development and Forecasting Analysis Programs: Ten-Year Perspective, (02-4178)

Youssef Dehghani and Murli K. Adury, Parsons Brinckerhoff Quade and Douglas, Inc.; Mark Bradley, Mark Bradley Research & Consulting; Celine K. Gihring, Washington State Ferries

Ferry Service Response to Events of 09/11/01

Tom Hannan, Port Authority of New York and New Jersey

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Wednesday, January 16, 10:15 a.m.-noon, Hilton

Innovative Finance: Moving from Concept to Reality

Suzanne H. Sale, Arizona Department of Transportation, presiding

Sponsored by Committee on Taxation and Finance

National Scorecard on Results to Date

Ronald Marino, Salomon Smith Barney Inc.

State Perspective on Successful Strategies

Heather Dugan, Colorado Department of Transportation

Beyond Leveraging: Quantifying the Benefits of Innovative Finance

Jennifer Mayer, Federal Highway Administration

Finetuning the "Toolbox": Proposals for Reauthorization

Lowell Clary, Florida Department of Transportation

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Wednesday, January 16, 10:15 a.m.-noon, Hilton

Archiving and Use of Traffic Management Center Data

Shawn M. Turner, Texas Transportation Institute, presiding

Sponsored by Committee on Urban Transportation Data and Information Systems

Costs and Benefits of Using Intelligent Transportation Systems as Alternative Data Source: Case Study, (02-3872)

Patricia S. Hu, Rick Goeltz, and Richard L. Schmoyer, Oak Ridge National Laboratory

Simple Approach to Archiving Operations Data: Case Study in Austin, Texas, (02-2393)

Shawn M. Turner, Texas Transportation Institute

How Traffic Management Center Data Can Be Used to Measure and Improve Performance, (02-3885)

Joy Wilbrand Dahlgren, University of California, Berkeley; Shawn M. Turner, Texas Transportation Institute; Reinaldo C. Garcia, California Partners for Advanced Transit and Highways

Generating Performance Measures from Portland's Archived Advanced Traffic Management System Data, (02-3938)

Robert L. Bertini, Portland State University; David J. Lovell, University of Maryland, College Park; Monica Leal, Portland State University

Archiving Real-Time Incident Data: Archive Data User Service Application in Metropolitan Atlanta Area, (02-3738)

Weimin Huang and John D. Leonard II, Georgia Institute of Technology

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Wednesday, January 16, 10:15 a.m.-noon, Hilton

Market Research and Customer Travel Patterns

Karla H. Karash, Multisystems, Inc., presiding

Sponsored by Committee on Public Transportation Marketing and Fare Policy

Using Location-Stamped Farebox Data to Estimate Passenger Miles, Origin-Destination Patterns, and Loads, (02-2466)

David S. Navick and Peter G. Furth, Northeastern University

How Best to Serve Seniors on Existing Transit Services, (02-2603)

David Koffman, Nelson\Nygaard Consulting Associates; Roger Salstrom, San Jose State University

Management Awareness of Transit Passenger Needs, (02-2155)

Parviz A. Koushki, Omar I. Al-Saleh, Saleh Yaseen Ali, and Mai Al-Lumaia, Kuwait University

Travelers' Stated Choices for Public Transport, (02-2074)

Eric Molin, Delft University of Technology, Netherlands; Harry Timmermans, Eindhoven University of Technology, Netherlands

Evaluation of the Role of Marketing in Public Transportation Organizations, (02-3206)

J. Joseph Cronin, Jr., Florida State University

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Wednesday, January 16, 10:15 a.m.-noon, Hilton

State-Level Telework Programs: Where Do We Go from Here?

John S. Niles, Global Telematics, presiding

Sponsored by Committee on Telecommunications and Travel Behavior and Committee on Statewide Multimodal Transportation Planning

Panel Discussion

Gil Weidenfeld, Maryland Department of Transportation; Darryl Anderson, Minnesota Department of Transportation; Kathy King, Oregon Office of Energy; John Corbett, Arizona Department of Transportation; Robert Otto, State of Texas Energy Conservation Office

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Wednesday, January 16, 10:15 a.m.-noon, Hilton

Tribal, State, and Federal Governments Working Together to Meet Cultural and Transportation Needs

Pamela S. Stephenson, Federal Highway Administration, presiding

Sponsored by Committee on Historic and Archeological Preservation in Transportation

Discussion of Treaty Rights and Relationship Among Tribe, State, and Federal Governments

D. Fred Matt, Tribal Council

Panel Discussion

Dale Paulson, FHWA Montana Division; Loren Frazier, Montana Department of Transportation; Joe Hovenkotter, Confederated Salish and Kootenai Tribes

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Wednesday, January 16, 10:15 a.m.-noon, Hilton

Interjurisdictional Aspects of Performance Measurement

Peter E. Plumeau, Wilbur Smith Associates, presiding

Sponsored by Committee on Intergovernmental Relations and Policy Processes; Committee on Statewide Multimodal Transportation Planning; and Subcommittee on Performance Measures

Selection of Performance Measures in Arizona

Mary Lynn Tischer, Arizona Department of Transportation

Challenges of Performance Measurement by Nonimplementing Agencies

Craig Secrest, TransTech Management, Inc.

Approaches to Measuring Transportation Performance in Three New England States

Harry E. Strate, Wilbur Smith Associates

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Wednesday, January 16, 10:15 a.m.-noon, Hilton

Commuter Rail Service Performance Under Varying Institutional Structures

Ruby A. Siegel, SYSTRA Consulting, Inc., presiding

Sponsored by Committee on Commuter Rail Transportation

Track Sharing Between Commuter Trains and High-Speed Rail in Northeast Corridor, (02-2387)

John G. Allen, Chicago Regional Transportation Authority

Coordination Issues Affecting Amtrak and New Jersey Transit in Penn Station Business Plan

Monica Barrow, SYSTRA Consulting, Inc.

Role Reversed: Metro-North Railroad as Host, Amtrak High-Speed Rail as Tenant

Robert C. MacLagger, MTA Metro-North Railroad

Allocating Track Maintenance Costs, (02-3812)

Randolph R. Resor and Pradeep K Patel, Zeta-Tech Associates, Inc.

Comparative MBTA Commuter Performance on Amtrak- and CSX-Shared Corridors

David C. Wilcock, Vanasse, Hangen, Brustlin, Inc.

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Wednesday, January 16, 10:15 a.m.-noon, Hilton

Transit System Updates

Earle M. Hughes, Edwards & Kelcey, Inc., presiding

Sponsored by Committee on Rail Transit System Design

Washington Metropolitan Area Transit Authority's Largo Town Center

James R. Haggins, Washington Metropolitan Area Transit Authority

MTA's West Side Access

Anthony Jaffa, New York City Transit Authority

New Jersey Transit's Camden-Trenton Line

John Sutton, New Jersey Transit Corporation

Minneapolis' Hiawatha Light Rail

Robert P. Sands, Edwards & Kelcey, Inc.

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Wednesday, January 16, 10:15 a.m.-noon, Hilton

Transit Capacity and Quality of Service Research

Michael S. Townes, Hampton Roads Transit, presiding

Sponsored by Task Force on Transit Capacity and Quality of Service

Transit Agency Perspective on Transit Capacity and Quality of Service Manual

William G. Barker, VIA Metropolitan Transit

Recommendations for Second Edition of Transit Capacity and Quality of Service Manual, (02-3390)

Tunde Balvanyos, University of California, Berkeley

Florida's Transit Level-of-Service Software and Pedestrian Access

Tara Bartee and Jon Ausman, Florida Department of Transportation

Update on Second Edition of Transit Capacity and Quality of Service Manual

Alan R. Danaher, Kittelson & Associates, Inc.

Wednesday, January 16, Noon-2:00 p.m., Marriott

Chairman's Luncheon

The Chairman's Luncheon (\$44 ticket) is open to all Annual Meeting registrants. The program will include a summary address by 2001 Executive Committee Chairman John M. Samuels, introduction of new Executive Committee members and officers, a featured speaker, and presentation of TRB's most prestigious awards. Advance registration is advised. Balcony seating is available for attendees who do not register for the lunch.

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Wednesday, January 16, 1:30 p.m.-3:15 p.m., Hilton

Highway Noise Modeling

Judith L. Rochat, Volpe National Transportation Systems Center, presiding

Sponsored by Committee on Transportation-Related Noise and Vibration

Using FHWA Traffic Noise Model to Assess Noise Reflections off Underside of Elevated Bridge Structures, (02-4125)

Darlene D. Reiter and William Bowlby, Bowlby & Associates, Inc.

Comparison of Measured and Modeled Sound Levels in Vicinity of Traffic Noise Barriers, Part B: Modeling, (02-3799)

Roger L. Wayson, John M. MacDonald, and Wayne Arner, University of Central Florida;
Winfield M. Lindeman and Mariano Berrios, Florida Department of Transportation

Comparison of Measured and Modeled Sound Levels in Vicinity of Traffic Noise Barriers, Part A: Measurements, (02-3409)

Roger L. Wayson, John M. MacDonald, and Wayne Arner, University of Central Florida;
Winfield M. Lindeman and Mariano Berrios, Florida Department of Transportation

Application of Boundary Element Method to Prediction of Highway Noise Barrier Performance, (02-4081)

Sanghoon Suh, Luc Mongeau, and J. Stuart Boton, Purdue University

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Wednesday, January 16, 2:30 p.m.-4:00 p.m., Marriott

Operations in the 21st Century: View from the Summit, Part 1 (Part 2, Session 600)

Francis B. Francois, Consultant, presiding

Sponsored by Joint Subcommittee on Transportation Operations

Transportation Operations Action Plan

Francis B. Francois, Consultant

National Summit on Transportation Operations: Goals for the Future

Christine M. Johnson, Federal Highway Administration

Legislative and Funding Alternatives

Stephen C. Lockwood, Parsons Brinckerhoff, Inc.

Organizational and Institutional Changes

Joseph M. Sussman, Massachusetts Institute of Technology

Traffic Congestion and Travel Reliability, (02-2810)

Timothy J. Lomax and Shawn M. Turner, Texas Transportation Institute; Mark E. Hallenbeck, University of Washington; Richard A. Margiotta, Cambridge Systematics, Inc.

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Wednesday, January 16, 2:30 p.m.-4:00 p.m., Marriott

Identifying Types of Injury Patterns Resulting from Motorcycle Crashes

Joseph Carra, National Highway Traffic Safety Administration, presiding

Sponsored by Committee on Safety Data, Analysis, and Evaluation and Committee on Motorcycles and Mopeds

Motorcycle Crashes and Injury Outcomes Using Linked Data: Results from Maine CODES Project

Karl Finison, Maine Health Information Center

Using CODES Linked Data to Identify Injury Patterns from Motorcycle Crashes in Pennsylvania

Mike Allen, HealthcareData.com, LLC

Using CODES Linked Data and State's Geographic Information System to Identify and Locate Injury Patterns from Motorcycle Crashes in South Carolina

Mary Pease, South Carolina State Budget & Control Board

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Wednesday, January 16, 2:30 p.m.-4:00 p.m., Marriott

Tests to Assess Future Durability of Field Concrete, Part 1 (Part 2, Session 602)

Will Hansen, University of Michigan, presiding

Sponsored by Committee on Durability of Concrete and Committee on Basic Research and Emerging Technologies Related to Concrete

Test Method to Appraise Future Durability of New Concrete Bridge Decks, (02-2873)

Ozgur Yaman, Recep Birgul, and Haluk M. Aktan, Wayne State University; Nataliya Hearn, University of Windsor, Canada ; John F. Staton, Michigan Department of Transportation

Alkali-Silica Reaction Resistance of High-Volume Fly Ash Cementitious Systems Using Modified ASTM C 1260 , (02-3826)

Chang-Seon Shon, Dan G. Zollinger, and Shondeep L. Sarkar, Texas Transportation Institute

Influence of Cement Composition on AASHTO T 277 Rapid Chloride Ion Permeability: Recommended Changes to the Method, (02-4158)

Della M. Roy, Paul J. Tikalsky, Barry Scheetz, James L. Rosenberger, Tara L. Krize, and Raafat Isaak Malek, Pennsylvania State University

574

Wednesday, January 16, 2:30 p.m.-4:00 p.m., Marriott

Managing the Safety of Motor Carriers

George L. Reagle, Federal Highway Administration, presiding

Sponsored by Task Force on Truck and Bus Safety

Analysis of Commercial Vehicle Driver Traffic Conviction Data to Identify High-Safety-Risk Motor Carriers, (02-3572)

Brenda Michelle Lantz, Upper Great Plains Transportation Institute; Michael W. Blevins, Federal Motor Carrier Safety Administration

Development of Carrier Selection Methodology for Intrastate Compliance Review in Wisconsin, (02-3246)

Robert L. Smith Jr. and Emil Juni, University of Wisconsin, Madison

Geographic Information System-Based Truck Accident Information and Management System for New Jersey Roadways, (02-3158)

Steven Chien, Guancheng Li, and Janice R. Daniel, New Jersey Institute of Technology

575

Wednesday, January 16, 2:30 p.m.-4:00 p.m., Marriott

Development of Automated Systems for Steel Bridge Fabrication, Part 1 (Part 2, Session 604)

Tom Siewert, National Institute of Standards and Technology, presiding

Sponsored by Committee on Fabrication and Inspection of Metal Structures

State of the Art in Steel Bridge Fabrication in the United States

Bob Kase, High Steel Structures, Inc.

Automated Fabrication at Caterpillar International

Jutla Tarsem, Caterpillar Inc.

Automation for Competitive Advantage on Rion-Antirion Bridge

John O'Neil, Cleveland Bridge, United Kingdom

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Wednesday, January 16, 2:30 p.m.-4:00 p.m., Marriott

Fluorescence and Retroreflectivity Issues in Signing Materials

Carl K Andersen, Federal Highway Administration, presiding

Sponsored by Committee on Signing and Marking Materials

Fluorescent Orange Sign Sheeting Evaluation by State Department of Transportation, (02-3398)

Mark James Poppe, Arizona Department of Transportation; Craig A. Roberts, Northern Arizona University; Seth W Chalmers, Task Engineering Co., Inc.

Statistical Analysis of Fluorescent Orange Sign Sheeting Using Expert Panel, (02-2152)

Craig A. Roberts, Northern Arizona University; Mark J Poppe, Arizona Department of Transportation; Seth W Chalmers, Task Engineering Co., Inc.

Minimum Retroreflectivity Values for Overhead Guide Signs and Street Name Signs, (02-3075)

Paul J. Carlson and H. Gene Hawkins Jr., Texas Transportation Institute

Comparison of Observed Sign Retroreflectivity Values with Proposed FHWA Minimums, (02-2502)

Luke Jacob Nuber and Darcy Bullock, Purdue University

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Wednesday, January 16, 2:30 p.m.-4:00 p.m., Marriott

Drugs Other Than Alcohol and Driving

Claude Dussault, Societe de l'assurance automobile du Quebec, Canada; Han de Gier, Utrecht University, Netherlands, presiding

Sponsored by Committee on Alcohol, Other Drugs, and Transportation

What Happened After ROSITA?

John S. Oliver, University of Glasgow, Scotland

Cannabis and Driving in Quebec: Recent Developments

Maxime Brault, Societe de l'assurance automobile du Quebec, Canada

Development of a New Traffic Law for Drugs Other Than Alcohol in the Netherlands

Han de Gier, Utrecht University, Netherlands

Transportation Safety and Potentially Sedating or Impairing Medications

Mitchell A. Garber, National Transportation Safety Board

Prevalence of Medicinal Drug Use Among Vehicle Crash Victims Admitted to a Trauma Center

Carl A. Soderstrom, University of Maryland

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Wednesday, January 16, 2:30 p.m.-4:00 p.m., Marriott

Tunneling Safety and Risk Management

Harald Wagner, D2 Consult Ltd. Inc., Austria, presiding

Sponsored by Committee on Tunnels and Underground Structures

Safety Aspects to Flexible NATM Versus Stiff Shotcrete Linings, (02-3982)

Jean Launay, Vinci Construction, France

Risk Management: Illustrated Contribution of Insurers and Reinsurers, (02-3474)

Bruno Porro, Swiss Reinsurance Company

Geotechnical Safety Management During Design and Construction of Shallow Tunnels, (02-2680)

Peter Schubert, IC - Consulente, Austria; Georg Michael Vavrovsky, Eisenbahn - Hochleistungsstrecken AG, Austria; Nejad Ayaydin, IGT ZT GmbH, Austria

Risk Analysis Methodology for Underground Mass Transit Projects, (02-2916)

Davorin Kolic, D2 Consult Ltd. Inc., Austria

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Wednesday, January 16, 2:30 p.m.-4:00 p.m., Marriott

Context-Sensitive Design

Scott D. Bradley, Minnesota Department of Transportation, presiding

Sponsored by Committee on Landscape and Environmental Design

Context-Sensitive Design: Looking into the Future

Sally G. Oldham, Oldham Historic Properties, Inc.

Context Sensitivity for Transportation Professionals in the 21st Century

R. Gregg Albright, California Department of Transportation

Context-Sensitive Design for Older Roads Built in the 1940s, 1950s, and 1960s

Douglas L. Mann, HNTB Corporation

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Wednesday, January 16, 2:30 p.m.-4:00 p.m., Shoreham

Optimizing Properties and Characteristics of Asphalt Mixtures

R. Michael Anderson, Asphalt Institute, presiding

Sponsored by Committee on Characteristics of Bituminous Paving Mixtures To Meet Structural Requirements

Effect of Aggregate Structure on Rutting Potential of Dense-Graded Asphalt Mixtures, (02-2779)

Bensa Nukunya and Reynaldo Roque, University of Florida; Yusuf A. Mehta, Pennsylvania State University

Asphalt Mixture Design Concepts: Bailey Method, (02-3629)

William R. Vavrik, Applied Research Associates, Inc.; William J. Pine, Heritage Research Group; Samuel H. Carpenter, University of Illinois, Urbana-Champaign

Rutting of Asphalt Pavements in Manitoba and Relationship to Strength and Deformation Properties, (02-3532)

Myron Thiessen and Ahmed Shalaby, University of Manitoba, Canada; Leonnie Kavanagh, Manitoba Department of Transportation and Government Services, Canada

Shear Properties as Viable Measures for Characterization of Permanent Deformation of Asphalt Concrete Mixtures, (02-3835)

Stephen N. Goodman, Canadian Strategic Highway Research Program (C-SHRP); Yasser Hassan and A. O. Abd El Halim, Carleton University, Canada

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Wednesday, January 16, 2:30 p.m.-4:00 p.m., Shoreham

Pavement Response and Modeling

Jacob Uzan, Technion - Israel Institute of Technology, presiding

Sponsored by Committee on Strength and Deformation Characteristics of Pavement Sections

Validation of Structural Pavement Response Models Using Mn/ROAD Data, (02-3752)

Angel Mateos, CEDEX, Spain; Mark B. Snyder, Concrete Paving Association of Minnesota

Analytically Based Approach to Rutting Prediction, (02-3327)

Carl L. Monismith, John T. Harvey, and Lorina Popescu, University of California, Berkeley;
John A. Deacon, University of Kentucky; Irwin Guada, University of California, Berkeley

Pavement Response to Dual and New Wide-Base Tires at the Same Tire Pressure, (02-2612)

Imad L. Al-Qadi and Amara Loulizi, Virginia Polytechnic Institute and State University;
Ibrahim Mustafa Janajreh, Michelin Americas R&D Corporation; Thomas E. Freeman,
Virginia Transportation Research Council

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Wednesday, January 16, 2:30 p.m.-4:00 p.m., Shoreham

Plan of Action for Scour-Critical Bridges, Part 1 (Part 2, Session 610)

Peter F. Lagasse, Ayres Associates, presiding

Sponsored by Committee on Hydrology, Hydraulics, and Water Quality

Overview and Updates to Hydraulic Engineering Circulars 18, 20, and 23

Peter F. Lagasse, Ayres Associates

Changes to Coding Guide (Items 60 and 113)

Jorge E. Pagan-Ortiz, Federal Highway Administration

Approach to Developing a Plan of Action

Jorge E. Pagan-Ortiz and J. Sterling Jones, Federal Highway Administration

583

Wednesday, January 16, 2:30 p.m.-4:00 p.m., Shoreham

Graduated Driver Licensing: Teens and Their Parents

Daniel R. Mayhew, Traffic Injury Research Foundation, Canada, presiding

Sponsored by Committee on Operator Education and Regulation and Committee on Alcohol, Other Drugs, and Transportation

SP-1 Parental Views of and Experience with Michigan's Graduated Driver Licensing Program

Jean T. Shope, University of Michigan

SP-2 Responses of Teenagers and Their Parents to California's Graduated Licensing System

Allan F. Williams, Insurance Institute for Highway Safety

SP-3 New Developments in Graduated Licensing in North Carolina

Rob Foss, University of North Carolina

SP-4 Do Frequent Persuasive Communications During the Permit Period Increase Attitudes and Practices Regarding Parental Management of Teen Driving at Licensure?

Bruce Simons-Morton and Jessica Hartos, National Institute of Child Health and Human Development

584

Wednesday, January 16, 2:30 p.m.-4:00 p.m., Shoreham

Air Cargo: Adapting Our Facilities to Meet Growing Demand

Rachel R. Weinberger, URS Corporation, presiding

Sponsored by Committee on Airport Terminals and Ground Access

Impacts of New and Emerging Customer Requirements on Air Cargo

Anne Strauss-Wieder, A. Strauss-Wieder, Inc.

Infrastructure Limitations and Opportunities

Ray D. Keiser, Keiser & Associates, Inc.

Intermodalism: Local Landside Issues

James E. Larsen, Port Authority of New York and New Jersey

585

Wednesday, January 16, 2:30 p.m.-4:00 p.m., Shoreham

Out of Space: Finding New Ways to Make Port Terminals More Efficient

Arthur B. Goodwin, Alameda Corridor Transportation Authority, presiding

Sponsored by Committee on Intermodal Freight Terminal Design and Operations and Committee on Ports and Channels

Petri Net Modeling and Analysis of Automated Container Terminal Using Automated Guided Vehicle Systems, (02-2047)

Petros Ioannou, University of Southern California

Using Online Information to Estimate Container Movements for Day-to-Day Marine Terminal Operations, (02-2298)

Alexios Sideris, New Jersey Institute of Technology; Maria P. Boile, Rutgers University; Lazar N. Spasovic, New Jersey Institute of Technology

Modeling Internal Transport System in a Container Port, (02-2816)

Rodrigo A. Garrido, Pontificia Universidad Catolica de Chile; Felipe Allendes, SDG, Chile

Managing Containers in a Marine Terminal: Assessing Information Needs, (02-4058)

Elizabeth G Jones, University of Nebraska, Lincoln; C. Michael Walton, University of Texas, Austin

586

Wednesday, January 16, 2:30 p.m.-4:00 p.m., Shoreham

Watching This Space: A Dramatic Year in European Freight and Intermodal Transportation

Bryan Stone, Stone Intermodal Consulting, Switzerland, presiding

Sponsored by Committee on Intermodal Freight Transport

Report on European Intermodal Reference Center

Lars Sjoestedt, European Centre for Transportation and Logistics, Germany

Results of European Scan on Freight Transport

Michael D. Meyer, Georgia Institute of Technology

Implications for Mexico

Oscar de Buen, Secretaria de Comunicaciones y Transportes, Mexico

Implications for Canada

Emile di Sanza, Transport Canada

587

Wednesday, January 16, 2:30 p.m.-4:15 p.m., Hilton

Political and Institutional Issues in Value Pricing, Part 1: What Have We Learned? (Part 2, Session 615)

Lee W. Munnich Jr., University of Minnesota, presiding

Sponsored by Committee on Transportation and Economic Development; Committee on Taxation and Finance; and Committee on Transportation Economics

A Pricing Glossary: Responding to the Hard Questions

William R. Stockton, Texas Transportation Institute

Public Perceptions of Value Pricing

Kris Cella, Cella & Associates, Inc.

Road Pricing and Elected Officials

Chris Swenson, CRSPE, Inc.

Organizational Responses to Value Pricing

David H. Ungemah, UrbanTrans Consultants, Inc.

588

Wednesday, January 16, 2:30 p.m.-4:00 p.m., Hilton

Pedestrian Crash Analysis Tools

Ron Van Houten, Center for Education and Research in Safety, Canada, presiding

Sponsored by Committee on Pedestrians

Session uses a Recorder format, i.e. moderator summarizes papers then the authors form a panel for discussion among themselves and with the audience.

The Promise and Perils of Pedestrian Crash Mapping: A Study of Eight Florida Counties, (02-3841)

Ruth L. Steiner, John-David Moss, and Richard Schneider, University of Florida

Pedestrian Collision Models For Urban Intersections, (02-3609)

Craig Allan Lyon and Bhagwant Persaud, Ryerson Polytechnic University, Canada

Effectiveness of pedestrian safety treatments for "hit-along-roadway" crashes, (02-3109)

Chandler Duncan, BRW, Inc.; Asad J. Khattak and Ronald G. Hughes, University of North Carolina, Chapel Hill

Factors Associated with Pedestrian Crash Risk: Integrating Risk Perceptions and Police-Reported Crashes, (02-2041)

Robert James Schneider, Sprinkle Consulting Inc.; Asad J. Khattak and Rhonda M Ryznar, University of North Carolina, Chapel Hill

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Wednesday, January 16, 2:30 p.m.-4:00 p.m., Hilton

Voice-Based Interactions and Driver Distraction

John D. Lee, University of Iowa, presiding

Sponsored by Committee on Vehicle User Characteristics

Impact of Cognitive Distraction on Driver Visual and Vehicle Control

Joanne L. Harbluk and Ian Noy, Transport Canada; Moshe Eizenman, El Mar Inc., Canada

Examination of Voice and Manual Input for In-Vehicle Information Systems

Thomas A. Ranney, National Transportation Research Center; Elizabeth N. Mazzae, National Highway Traffic Safety Administration

Everyday Driving: What Are the Distractions?

Jane C. Stutts, University of North Carolina, Chapel Hill

Why Do Cell Phone Conversations Interfere with Driving?

David Strayer, University of Utah

590

Wednesday, January 16, 2:30 p.m.-4:00 p.m., Hilton

New Horizons in Time Use and Activity Pattern Analysis

Ram M. Pendyala, University of South Florida, presiding

Sponsored by Committee on Traveler Behavior and Values

Analysis of Life-Style Choices: Neighborhood Type, Travel Patterns, and Activity Participation, (02-3424)

Kevin J. Krizek and Paul Waddell, University of Washington

Modeling Individuals: Activity-Travel Rescheduling Heuristics, (02-2173)

Chang-Hyeon Joh, Theo Arentze, and Harry Timmermans, Eindhoven University of Technology, Netherlands

Workers' Day Scheduling and Opportunities for Conducting Nonwork Activities and Travel, (02-2121)

Tim Schwanen and Martin Dijst, Utrecht University, Netherlands

Road Capacity and Allocation of Time, (02-2010)

David M. Levinson, University of Minnesota; Seshasai Kanchi, ICF Consulting

Utility-Maximizing Model of Household Time Use for Independent, Shared, and Allocated Activities Incorporating Group Decision Mechanisms, (02-2081)

Junyi Zhang, Institute of Social Infrastructure Planning, Japan; Harry Timmermans and Aloys Borgers, Eindhoven University of Technology, Netherlands

591

Wednesday, January 16, 2:30 p.m.-4:15 p.m., Hilton

Transportation Fuel Transitions, Part 1: Small and Near (Part 2, Session 620)

Danilo J. Santini, Argonne National Laboratory, presiding

Sponsored by Committee on Transportation Energy and Committee on Alternative Transportation Fuels

Retrospective Look at Use of Natural Gas Vehicles to Help Reduce Emissions While Maintaining Mobility During Atlanta Olympics

Dennis Smith, U.S. Department of Energy

Transportation Transitions: What Can We Learn from the Ongoing Fuels Transition?

Thomas H. White and Barry D. McNutt, U.S. Department of Energy

Managing Transition to Sustainable Transport Through Strategic Niche Management

Bolie Elzen, University of Twente, Netherlands

Adaptive Management of Technological Change: Strategy for Introducing Hydrogen into Transportation

Alex Farrell, David W. Keith, and James Corbett, Carnegie-Mellon University

592

Wednesday, January 16, 2:30 p.m.-4:30 p.m., Hilton

Commercial Fleet and Transit Modeling

Ali Haghani, University of Maryland, presiding

Sponsored by Committee on Transportation Network Modeling

Dynamic Truckload Truck Routing and Scheduling in Oversaturated Demand Situations, (02-2790)

Yongjin Kim, Hani S. Mahmassani, and Patrick Jaillet, University of Texas, Austin

Mixed Integer Programming Formulations for Groundside Routing Problem in Intermodal Express Package Industry, (02-2619)

Faith Jordan Ludders, Hani S. Mahmassani, and Patrick Jaillet, University of Texas, Austin

Asymptotically Optimal Algorithm for Dynamic Traveling Repair Problem, (02-2311)

Xiangwen Lu, Amelia C. Regan, and Sandra Irani, University of California, Irvine

Relative Performance of Heuristics for Dynamic Traveling Salesman Problem, (02-3859)

Amelia C. Regan, Jiri Herrmann, and Xiangwen Lu, University of California, Irvine

Value of Different Categories of Information in Estimating Freight Origin-Destination Tables, (02-2430)

Alejandro Rios, Linda K. Nozick, and Mark A. Turnquist, Cornell University

Design and Operational Concepts of High Coverage Point-to-Point Transit System, (02-4006)

Cristian E. Cortes and R. Jayakrishnan, University of California, Irvine

593

Wednesday, January 16, 2:30 p.m.-4:00 p.m., Hilton

Diesel Multiple Units

David O. Nelson, KKO & Associates, Inc., presiding

Sponsored by Committee on Commuter Rail Transportation

New Ottawa Service

Serges Lavigne, OC Transpo, Canada

Hurdles Encountered in Producing FRA-Compliant Diesel Multiple Unit

Thomas Janaky, Colorado Railcar

Update of Inventory of Potential North American Diesel Multiple Unit Applications

Frank A. Guzzo, Siemens Transportation Systems, Inc.

594

Wednesday, January 16, 2:30 p.m.-4:00 p.m., Hilton

Status of U.S. Department of Transportation's Intelligent Vehicle Initiative

Raymond Resendes, Federal Highway Administration, presiding

Sponsored by Committee on Vehicle-Highway Automation

Light Vehicle Update

David L. Smith, National Highway Traffic Safety Administration

Commercial Vehicle Update

Timothy Johnson, Federal Motor Carrier Safety Administration

Transit Update

Brian Cronin, Federal Transit Administration

Cross-Cutting Platform Update

Robert Ferlis, Federal Highway Administration

595

Wednesday, January 16, 2:30 p.m.-4:00 p.m., Hilton

Highlights of 8th International Conference on Automated People Movers

Wayne D. Cottrell, University of Utah, presiding

Sponsored by Committee on Major Activity Center Circulation Systems

Automated People Mover as Medium-Capacity Transit System

David L. Shen, Florida International University

Automated People Movers: Major Upgrades to the Offer of Public Transport

Lawrence J. Fabian, Transit Pulse/Trans. 21

Airport People Mover Systems Planned and Under Construction

Hal Lindsey, Lea + Elliott

Automated People Mover Research Needs

Wayne D. Cottrell, University of Utah

596

Wednesday, January 16, 2:30 p.m.-5:30 p.m., Hilton

Environmental Justice (Poster Session)

Sponsored by Task Force on Environmental Justice in Transportation; Committee on Statewide Multimodal Transportation Planning; and Committee on Public Involvement in Transportation

HP-1 New Jersey's State Long-Range Transportation Plan: Techniques for Identifying and Targeting Underrepresented Groups

James B. Lewis, New Jersey Department of Transportation

HP-2 How Jacksonville Succeeded in African-American Outreach

Judy Aranda, Parsons Brinckerhoff Quade and Douglas, Inc.

HP-3 New Mexico's Tribal-State Transportation Summit

James Kozak, New Mexico State Highway and Transportation Department

HP-4 Outreach to Nontraditional Stakeholders for California's Statewide Transportation Plan

Nathan Smith, California Department of Transportation

HP-5 AC Transit's Community Outreach Program

James Gleich, Alameda/Contra Costa Transit District

HP-6 Tribal-State Consultation for Section 106 Process

James Rost, Iowa Department of Transportation

HP-7 Environmental Justice Techniques for Demographic and Transportation Analysis in Duluth, MN

Holly Butcher, Metropolitan Interstate Committee - MIC

HP-8 And Justice for All: Environmental Justice Policy Statement, Implementation Strategies, Evaluation, and Monitoring Process

Karen Morris, Delaware Valley Regional Planning Commission

HP-9 NCHRP 8-36A(11) Overview: Technical Methods to Support Analysis of Environmental Justice Issues

John H. Suhrbier, Cambridge Systematics, Inc.

HP-10 NCHRP 8-41: Effective Methods for Environmental Justice Assessment

David J. Forkenbrock, University of Iowa

HP-11 Ohio's Guidance on Environmental Justice in Transportation Planning

Libby Rushley, Ohio Department of Transportation

HP-12 Integrating Community Expectations into Technical Analysis Procedures

Andrew Chesley, San Joaquin Council of Governments

HP-13 Environmental Justice Techniques for Georgia Statewide Transportation Plan

Julie Colby, Cambridge Systematics, Inc.

HP-14 Environmental Justice in Transportation Planning Process: Southern California Perspective

Nancy Pfeffer, Southern California Association of Governments

HP-15 Better Identification of Environmental Justice Neighborhoods Through Housing Data, School Enrollment Data, and Modeling

Philip Wheeler AICP, Rochester/Olmstead Council of Governments

HP-16 Environmental Equity and Trucking: Case of South Bronx Waste Transfer Facility
Rae Zimmerman, New York University

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Wednesday, January 16, 3:30 p.m.-5:15 p.m., Hilton

Transportation-Related Noise Issues

John R. Jaeckel, HNTB Corporation, presiding

Sponsored by Committee on Transportation-Related Noise and Vibration

Comparison of Transverse Tined and Longitudinal Diamond Ground Pavement Texturing for Newly Constructed Concrete Pavement, (02-4090)

Paul Burge, Acentech Incorporated; Keith Travis, Parsons Transportation Group, Inc.; Zoltan Rado, Pennsylvania State University

Analysis of Diffracted Multiple Reflected Ray Paths for Noise Barrier Access Areas, (02-3795)

Shailaja Tamvada and Lloyd Herman, Ohio University

Defining Reasonable and Feasible Traffic Noise Abatement: Consideration of a Quantitative Approach, (02-2852)

Win Lindeman, Florida Department of Transportation

Measurement, Modeling, and Mitigation of Arterial Traffic Noise in Medium-Sized Urban Area, (02-2048)

Bapatla P Chandrasekhar, Regional Engineering College, Warangal, India; Parviz A. Koushki and Mohammed A Ali, Kuwait University; CSRK Prasad, Regional Engineering College, Warangal, India

598

Wednesday, January 16, 4:30 p.m.-6:00 p.m., Marriott

Visibility Modeling

Frank Schieber, University of South Dakota, presiding

Sponsored by Committee on Visibility

Model of Overhead Sign Luminance Need for Legibility, (02-4117)

Andrew James Holick and Paul J. Carlson, Texas Transportation Institute

Computational Vision Model-Based Method to Address Work Zone Conspicuity, (02-4083)

Joseph E Barton, James R. Misener, and Theodore Elliot Cohn, University of California, Berkeley

Measurement of Motorist's Relative Visibility Index Through Video Images, (02-3262)

Tack Mu Kwon, University of Minnesota, Duluth

Testing Adverse Visibility Information System Evaluation, (02-3140)

H. Joseph Perrin, Peter T. Martin, Brad G. Coleman, and Blake G. Hansen, University of Utah

599

Wednesday, January 16, 4:30 p.m.-6:00 p.m., Marriott

New Advances in Portland Cement Concrete Equipment Technology

Nick Yaksich, Construction Industry Manufacturers Association, presiding

Sponsored by Committee on Construction Equipment and Committee on Portland Cement Concrete Pavement Construction

Changing Width Paver on the Move

Chapin B. Sipherd, CMI Corporation

New Advances in Three-Dimensional Control Systems

Kurt Schibli, Laser Alignment

MCP13: Revolution in Concrete Mixing Plants

Ronald M. Guntert Jr., Guntert & Zimmerman Construction Division, Inc.

600

Wednesday, January 16, 4:30 p.m.-6:00 p.m., Marriott

Operations in the 21st Century:View from the Summit, Part 2 (Part 1, Session 571)

Stephen C. Lockwood, Parsons Brinckerhoff, Inc., presiding

Sponsored by Joint Subcommittee on Transportation Operations

Overview

Stephen C. Lockwood, Parsons Brinckerhoff, Inc.

New Institutions for Regional Operations

Craig Roberts, PBS&J

Local Government Challenges

John Mason, Science Applications International Corporation

New Mission for State Departments of Transportation

Anne P. Canby, Consultant

Performance as the Core of Operations

Michael D. Meyer, Georgia Institute of Technology

601

Wednesday, January 16, 4:30 p.m.-6:00 p.m., Marriott

Crash Measurement and Tools

Jeffrey F. Paniati, Federal Highway Administration, presiding

Sponsored by Committee on Safety Data, Analysis, and Evaluation

Development of Prototype Geographic Information System Application for Intersection Traffic Accidents, (02-4040)

Dewan Masud Karim, Nippon Hodo Company Limited, Japan; Shintaro Terabe, University of Tokyo, Japan

Feasibility of Driver Judgment as a Basis for Crash Avoidance Database Development, (02-3695)

David L. Smith, National Highway Traffic Safety Administration ; Wassim G. Najm, Volpe National Transportation Systems Center; Richard A. Glassco, Mitretek Systems, Inc.

Analysis of Crash Precursors on Instrumented Freeways, (02-3790)

Chris C. Lee, Frank F. Saccomanno, and Bruce Hellinga, University of Waterloo, Canada

Development of Road Safety Risk Index, (02-2814)

Paul C. de Leur, Insurance Corporation of British Columbia, Canada; Tarek Sayed, University of British Columbia, Canada

Using Simulation to Assess Safety and Operational Impacts of Increasing Traffic Signal Density, (02-2340)

Kendall P. Drummond, Rummel, Klepper & Kahl; Lester A. Hoel, University of Virginia; John S. Miller, Virginia Transportation Research Council

602

Wednesday, January 16, 4:30 p.m.-6:00 p.m., Marriott

Tests to Assess Future Durability of Field Concrete, Part 2 (Part 1, Session 573)

Haluk M. Aktan, Wayne State University, presiding

Sponsored by Committee on Durability of Concrete and Committee on Basic Research and Emerging Technologies Related to Concrete

Using Epifluorescence Optical Microscopy to Identify Causes of Portland Cement Concrete Distress: Case Study, (02-3201)

Lawrence L. Sutter, Thomas John Van Dam, and Karl R. Peterson, Michigan Technological University; Kurt D. Smith, Applied Pavement Technology, Inc.

Development of Rational Test Methodology for Association of American Railroads, (02-3844)

Chang-Seon Shon, Dan G. Zollinger, and Shondeep L. Sarkar, Texas Transportation Institute

Rapid Migration Test as Alternative to AASHTO T277 for Evaluating Chloride Permeability of Concrete

Robert Douglas Hooton, University of Toronto, Canada

603

Wednesday, January 16, 4:30 p.m.-6:00 p.m., Marriott

Traffic Safety Management Research

Leanna Depue, Central Missouri State University, presiding

Sponsored by Committee on Transportation Safety Management

Application of Predictive Models and Geographic Information System for Planning-Level Countywide Safety Analysis, (02-3671)

Jeffrey C. Barnett and Jill Campo, CH2M Hill

Developing Systematic Framework for Proactive Road Safety Planning, (02-2808)

Paul C. de Leur, Insurance Corporation of British Columbia, Canada; Tarek Sayed, University of British Columbia, Canada

Toward Improved Traffic Safety: Road-Use Perception and Behavior in Estonia, (02-2544)

Siim Soot, University of Illinois, Chicago; Dago Antov, IB Stratum, Estonia

Addressing High-Risk Groups in Seatbelt Campaigns, (02-2778)

Jay K. Lindly, David Brown, and Daniel S. Turner, University of Alabama

604

Wednesday, January 16, 4:30 p.m.-6:00 p.m., Marriott

Development of Automated Systems for Steel Bridge Fabrication, Part 2 (Part 1, Session 575)

Tom Siewert, National Institute of Standards and Technology, presiding

Sponsored by Committee on Fabrication and Inspection of Metal Structures

Need for Standardization in Automation: AASHTO-NSBA Steel Bridge Collaboration Update

Kenneth F. Hurst, Kansas Department of Transportation

Welding Applications for Automated Bridge Fabrication

Lon Yost, Lincoln Electric Company

National Efforts Toward Automation in Steel Bridge Fabrication

Stewart Chen, State University of New York, Buffalo

605

Wednesday, January 16, 4:30 p.m.-6:00 p.m., Marriott

Criteria for Evaluating Pavement Marking Material Performance

Mujeeb A Basha, American Association of State Highway and Transportation Officials, presiding

Sponsored by Committee on Signing and Marking Materials

Evaluation of Various Pavement Marking Technologies to Increase Visibility for Older Drivers, (02-3365)

Thomas Schnell, University of Iowa; Phillip J. Ohme, Wingcast

Establishing Crash-Based Retroreflectivity Threshold, (02-2061)

Nasser K. Abboud, BRW/URS; Brian L. Bowman, Auburn University

Development of Pavement Management System: Laboratory and Field Assessment of Factors Affecting Retroreflectivity in Pavement Paints, (02-3056)

Michael Joseph Rich and Robert E. Maki, Michigan State University; Jill G. Morena, Michigan Department of Transportation

Cost- and Longevity-Based Scheduling of Paint and Thermoplastic Striping, (02-2170)

Nasser K. Abboud, BRW/URS; Brian L Bowman, Auburn University

606

Wednesday, January 16, 4:30 p.m.-6:00 p.m., Marriott

Tunnel Planning, Design, and Rehabilitation

Mohammad Irshad, Parsons Transportation Group, Inc., presiding

Sponsored by Committee on Tunnels and Underground Structures

Boston Physical Development Planning of Central Artery/Tunnel (CA/T) Project, (02-4167)

Romin Koebel, Boston University Metropolitan College

Risk Analysis as Design Tool in Fire-Safety Retrofit of Two Italian Tunnels, (02-3442)

Armando Mammino, S.I.G.E.S. s.a.s., Italy; Luigi Tonon, Consultant, Italy; Fulvio Tonon, Consultant

Prediction of Settlement in Existing Tunnel Caused by Second of Twin Tunnels, (02-2729)

Michael Lloyd Cooper, David N Chapman, and Christopher D.F. Rogers, University of Birmingham, United Kingdom

Innovative Methods in Tunnel Rehabilitation, (02-2866)

Bijan Khaleghi, Washington State Department of Transportation; JoAnn Schueler, Transportation Improvement Board

607

Wednesday, January 16, 4:30 p.m.-6:00 p.m., Marriott

Road Roughness and Its Effects

James C. Wambold, CDRM, Inc., presiding

Sponsored by Committee on Surface Properties - Vehicle Interaction

Correlation Between Longitudinal Roughness and User Perception in Urban Areas, (02-3643)

Francesca LaTorre, University of Florence, Italy; Lorenzo Ballerini and Neri di Volo, University of Florence

Ride Quality Assessment Using Pavement Profiling Devices, Part 2: Profile Analysis, (02-3522)

Tahar El-Korchi and Jason Bacon, Worcester Polytechnic Institute; Matthew Turo and Mike Ecmejian, Massachusetts Highway Department

Index for Evaluating Initial Overlay Smoothness Using Measured Profiles, (02-3296)

Emmanuel G. Fernando, Texas Transportation Institute

Development of New Profile-Based Truck Dynamic Load Index , (02-2737)

Karim Chatti and Doseung Lee, Michigan State University

608

Wednesday, January 16, 4:30 p.m.-6:00 p.m., Shoreham

Advanced Techniques for Laboratory Characteristics of Asphalt Mixtures

Leslie Ann Myers, ERES Consultants, Inc., presiding

Sponsored by Committee on Characteristics of Bituminous Paving Mixtures To Meet Structural Requirements

Application of Digital Image Correlation Method to Mechanical Testing of Asphalt-Aggregate Mixtures, (02-2758)

Youngguk Seo and Y. Richard Kim, North Carolina State University; Matthew W. Witzczak, Arizona State University; Ramon Bonaquist, Advanced Asphalt Technologies, LLC

Standardized Procedure for Analysis of Dynamic Modulus, |E*|, Data to Predict Asphalt Pavement Distresses, (02-3037)

Aroon Shenoy, Federal Highway Administration; Pedro Romero, University of Utah

Dynamic Modulus of Asphalt Concrete Using Hollow Cylinder Tensile Tester, (02-4112)

William G. Buttlar, Jason Bauer, and Daniel S. Sherman, University of Illinois, Urbana-Champaign

Determining Low-Temperature Fracture Toughness of Asphalt Mixtures, (02-3771)

Mihai O. Marasteanu and Joseph F. Labuz, University of Minnesota; Shongtao Dai, Minnesota Department of Transportation; Xue Li, University of Minnesota

609

Wednesday, January 16, 4:30 p.m.-6:00 p.m., Shoreham

Interpretation of Falling Weight Deflectometer Data and Backcalculation

Glenn J. Rix, Georgia Institute of Technology, presiding

Sponsored by Committee on Strength and Deformation Characteristics of Pavement Sections

Effective Tool for Enhancing Static Backcalculation of Pavement Moduli, (02-3196)

Bojan B. Guzina and Robert Henry Osburn, University of Minnesota

New Condition Assessment Procedure for Asphalt Pavement Layers Using Falling Weight Deflectometer Deflections, (02-3745)

Bing Xu, Ranji Ranjathan, and Y. Richard Kim, North Carolina State University

Development of Relationships Between Falling Weight Deflectometer Deflections and Asphalt Pavement Layer Condition Indicators, (02-3729)

Bing Xu, Ranji Ranjathan, and Y. Richard Kim, North Carolina State University

610

Wednesday, January 16, 4:30 p.m.-6:00 p.m., Shoreham

Plan of Action for Scour-Critical Bridges, Part 2 (Part 1, Session 582)

Peter F. Lagasse, Ayres Associates, presiding

Sponsored by Committee on Hydrology, Hydraulics, and Water Quality

HEC 23 Matrix for Selecting Countermeasures

Peter F. Lagasse, Ayres Associates

Risk-Based Countermeasure Design

David R. Pearson, GKY & Associates, Inc.

Innovative Approaches to Countermeasure Design

Peter F. Lagasse, Ayres Associates

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Wednesday, January 16, 4:30 p.m.-6:00 p.m., Shoreham

Developments in Freight Transportation Research

Frank Southworth, Oak Ridge National Laboratory, presiding

Sponsored by Committee on Freight Transportation Data

Truck Trip Generation Data: Synthesis of Current Practice, (02-3410)

Michael J. Fischer, Cambridge Systematics, Inc.; Myong Han, Jack Faucett Associates

Data Requirements for Truck Project Impact Evaluation, (02-3588)

Kazuya Kawamura, University of Illinois, Chicago; Anusha Seethraman, Urban Transportation Center

Using Vessel Freight Data to Forecast Heavy Truck Movements at Seaports, (02-2919)

Haitham M. Al-Deek, University of Central Florida

Comparison of Distance Estimates for Commodity Flow Survey Based on Great Circle Distance Versus Network-Based Distances, (02-2570)

Mohammad Qureshi, University of Missouri, Rolla; Ho-Ling Hwang and Shih-Miao Chin, Oak Ridge National Laboratory

612

Wednesday, January 16, 4:30 p.m.-6:00 p.m., Shoreham

Underage Drinking: What's the Magnitude of the Problem?

James C. Fell, Pacific Institute for Research and Evaluation, presiding

Sponsored by Committee on Alcohol, Other Drugs, and Transportation and Committee on Operator Education and Regulation

SP-1 Prevalence and Amount of Underage Drinking in College Using Breath Test Surveys of Students

Robert D. Foss, University of North Carolina, Chapel Hill

SP-2 Comparison of Youth Drinking Rates and Problems: European Countries and the United States

Joel Grube, Prevention Research Center

SP-3 Summary of Recent Research on Prevalence of Underage and High-Risk Drinking by College Students

William DeJong, Education Development Center, Inc

SP-4 How Can We Deal with the Underage Drinking Problem?

Susan A. Ferguson, Insurance Institute for Highway Safety; David F. Preusser, Preusser Research Group; Kathryn Stewart, Policy and Safety Analysis International

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Wednesday, January 16, 4:30 p.m.-6:00 p.m., Shoreham

Airport Systems and Operations Issues

Saleh A. Mumayiz, The MITRE Corporation, presiding

Sponsored by Committee on Airfield and Airspace Capacity and Delay

Modeling Economic Impacts of Adverse Weather into Enroute Flights, (02-3114)

Chuanwen Quan, PB Aviation, Inc.; Antonio A. Trani, Virginia Polytechnic Institute and State University

Time-Dependent Network Assignment Strategy for Taxiway Routing at Airports, (02-3660)

Hojong Baik, Hanif D. Sherali, and Antonio A. Trani, Virginia Polytechnic Institute and State University

Early Failure in Airport Concrete Pavement and Its Rehabilitation: Case Study of Incheon International Airport, (02-3058)

Michael T. McNerney, DMJM Aviation; Yoon-Ho Cho and Jae-hoon Lee, Chung Ang University, Korea; Young-kug Nam, Incheon University, Korea

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Wednesday, January 16, 4:30 p.m.-6:00 p.m., Shoreham

Developments in European Intermodal Freight Movement on Land and Water

Bryan Stone, Stone Intermodal Consulting, Switzerland, presiding

Sponsored by Committee on Ports and Channels

Innovative Transshipment Technologies Investigated for Implementation in Seaports and Barge Terminals, (02-3030)

Athanasios Theocharis Ballis and Anthony Stathopoulos, National Technical University of Athens, Greece

Expansion of Port of Rotterdam: Framework for Evaluation, (02-3467)

Sander Dekker and Robert J. Verhaeghe, Delft University of Technology, Netherlands

Integrating Freight Transport with Intelligent Transportation Systems: Some European Issues and Priorities, (02-3460)

George Giannopoulos, Aristotle University of Thessaloniki, Greece

Innovative Transshipment in Combined Transport Sector in Europe: Inventory and Expert System Approach, (02-3057)

Athanasios Theocharis Ballis and John Golias, National Technical University of Athens, Greece

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Wednesday, January 16, 4:30 p.m.-6:15 p.m., Hilton

Political and Institutional Issues in Value Pricing, Part 2: Addressing Challenges Through Public Involvement (Part 1, Session 587)

Marti Dilley, Alaska Department of Transportation and Public Facilities, presiding

Sponsored by Committee on Taxation and Finance; Committee on Transportation and Economic Development; and Committee on Transportation Economics

San Diego Managed Lane Case Study

David Schumacher, San Diego Metropolitan Transit Development Board

Panel Discussion

Margaret Campbell Jackson, Howard/Stein-Hudson Associates; Marcy S. Schwartz, CH2M Hill

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Wednesday, January 16, 4:30 p.m.-6:00 p.m., Hilton

Bicycle Crashes: Injury Research from the CODES States

Barhara Rhea, National Highway Traffic Safety Administration, presiding

Sponsored by Committee on Safety Data, Analysis, and Evaluation and Committee on Bicycling

Bicycle Crashes: Injury Research from the Codes States

Timothy Kerns, University of Maryland; Karl E. Kim, University of Hawaii, Manoa; Wayne Bigelow, Center for Health Systems Research & Analysis; Shereen Brynildsen, New York State Department of Health; Steve Davidson, Georgia Department of Health

617

Wednesday, January 16, 4:30 p.m.-6:00 p.m., Hilton

Data Research and Advanced Transportation Technology Needs for National Parks and Public Lands

Stephen Albert, Montana State University, presiding

Sponsored by Task Force on Transportation Needs for National Parks and Public Lands

Overview of National Park Service Data Collection Needs

Kevin Percival, U.S. National Park Service

Status of Intelligent Transportation Systems in the National Park Service

Gary Ritter, Volpe National Transportation Systems Center

Overview of Transportation Improvements and Data Needs for U.S. Forest Service

Joel Krause, U.S. Forest Service

Overview of Geographic Information Systems Applications and Data Needs for Parks Canada

Michael Seaby, Public Works and Government Services, Canada

618

Wednesday, January 16, 4:30 p.m.-6:00 p.m., Hilton

Intelligent Vehicle Initiative and Human Factors

Thomas A. Ranney, National Transportation Research Center, presiding

Sponsored by Committee on Vehicle User Characteristics and Committee on Vehicle-Highway Automation

Effect of Warning Timing on Collision Avoidance Behavior in Stationary Lead Vehicle Scenario, (02-3746)

Daniel V. McGehee and T Lopes, University of Iowa

Investigation of Behavioral Adaptation to Lane Departure Warnings, (02-2454)

Christina Margaret Brown and Y. Ian Noy, Transport Canada

Effect of False Forward Collision Warnings on Driver Responses, (02-2274)

Kenneth Gish and Michael Mercadante, TransAnalytics, LLC; Michael Perel, National Highway Traffic Safety Administration ; Frank S. Barickman, National Highway Traffic Safety Administration U.S. Department of Transportation

Driver Behavior and Performance Using Infrared Night Vision Enhancement System, (02-2355)

Kenneth Gish and Michael Shoulson, TransAnalytics, LLC; Michael Perel, National Highway Traffic Safety Administration

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Wednesday, January 16, 4:30 p.m.-6:00 p.m., Hilton

Travel Behavior Decision-Making Processes Under Scrutiny

Konstadinos G. Goulias, Pennsylvania State University, presiding

Sponsored by Committee on Traveler Behavior and Values

Role of History in Modeling Activity Type Choice and Activity Duration for Commuters, (02-3591)

Krishnan Kasturirangan, Northwestern University; Ram M. Pendyala, University of South Florida; Frank S. Koppelman, Northwestern University

Application of Stochastic Learning Automata for Modeling Departure Time and Route Choice Behavior, (02-2529)

Kaan M. A. Ozbay and Aleek Datta, Rutgers University; Pushkin Kachroo, Virginia Polytechnic Institute and State University

Household Activity Rescheduling in Response to Automobile Reduction Scenarios, (02-4012)

Sean T. Doherty, Wilfrid Laurier University, Canada

Effects of Forced Behavioral Change on Script-Based Travel Mode Choice, (02-2742)

Satoshi Fujii, Kyoto University, Japan; Tommy Garling, Gotenborg University, Sweden

Hey, Honey, Where Do We Go Today? Decision-Making and Routines in the Context of Leisure Travel, (02-3757)

Martin Lanzendorf, University of Utrecht, Netherlands

Responses to Centre Street Bridge Closure: Where the Disappearing Travelers Went, (02-2491)

John Douglas Hunt, University of Calgary, Canada; Alan T. Brownlee, City of Edmonton, Canada; Kevin Stefan, University of Calgary, Canada

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Wednesday, January 16, 4:30 p.m.-6:00 p.m., Hilton

Transportation Fuel Transitions, Part 2: Large and Far (Part 1, Session 591)

David L. Greene, Oak Ridge National Laboratory, presiding

Sponsored by Committee on Alternative Transportation Fuels and Committee on Transportation Energy

Comparing Benefits and Impacts of Hybrid Electric Vehicle Options

Robert Graham, Electric Power Research Institute

Gaseous Natural Gas-Based Fuels in U.S. Transportation for the Next 50 Years: Four Pathways

Danilo J. Santini, Argonne National Laboratory

Estimates of Costs of Some Hydrogen Fuel Infrastructure Options

Marianne Millar Mintz, Argonne National Laboratory

Assessment of Platinum Availability for Advanced Fuel Cell Vehicles, (02-3528)

Sujit Das and Bruce E Tonn, Oak Ridge National Laboratory

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Wednesday, January 16, 4:30 p.m.-6:00 p.m., Hilton

Modeling Dynamic Networks

Ismail Chabini, Massachusetts Institute of Technology, presiding

Sponsored by Committee on Transportation Network Modeling

Combinatorial User Optimal Dynamic Traffic Assignment Algorithm, (02-3031)

Steven Travis Waller, University of Illinois, Urbana-Champaign; Athanasios Ziliaskopoulos, Northwestern University

Faster Algorithms for Dynamic Traffic Assignment, Part I: Parametric, (02-2197)

Robert B. Dial, Volpe National Transportation Systems Center

Algorithm for Finding the K-Acyclic Shortest Paths with Logical Constraints and Its Application to Route Enumeration Problem, (02-3981)

Nanne J. Van Der Zijpp and Stella Catalano, Delft University of Technology, Netherlands

Best Routing Policy Problem in Stochastic Time-Dependent Network, (02-4069)

Song Gao and Ismail Chabini, Massachusetts Institute of Technology

Dynamic Procedure for Short-Term Prediction of Traffic Conditions, (02-3796)

Wei-Hua Lin, University of Arizona; Qingying Lu, Virginia Polytechnic Institute and State University; Joy Wilbrand Dahlgren, University of California, Berkeley

Identifying Multiple and Reasonable Alternative Routes: Efficient Vector Labeling Approach, (02-3047)

Dongjoo Park, Asian Institute of Technology, Thailand; Laurence R. Rilett, Texas A&M University System

622

Wednesday, January 16, 4:30 p.m.-6:00 p.m., Hilton

Approaches to Measuring Congestion by Mode

Alan E. Pisarski, Consultant, presiding

Sponsored by Committee on National Transportation Data Requirements and Programs

Air Congestion

George L. Donohue, George Mason University

Rail Congestion

Joel P. Palley, Federal Railroad Administration

Transit Congestion

Richard P. Steinmann, Federal Transit Administration

Highway Congestion

Timothy J. Lomax, Texas Transportation Institute

Multimodal View

Richard R. Kowalewski, Bureau of Transportation Statistics

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Wednesday, January 16, 4:30 p.m.-6:00 p.m., Hilton

Using Vehicle-Infrastructure Cooperation to Improve Safety and Efficiency

Robert Ferlis, Federal Highway Administration, presiding

Sponsored by Committee on Vehicle-Highway Automation

Work Plan and Status of Intelligent Vehicle Initiative Infrastructure Consortium Research

Steven E. Shladover, University of California, Berkeley

Status of Cooperative Vehicle-Highway Automation Systems Pooled Fund Research Project

Ron De Leon, California Department of Transportation

Deployment of Infrastructure to Support Cooperative Services for Specialty Vehicles

William Gardner, Minnesota Department of Transportation

Emerging Prospects for Communication Systems to Support Intersection Collision Avoidance

Broady Cash, ARINC

624

Wednesday, January 16, 4:30 p.m.-6:00 p.m., Hilton

TCSP: Innovative Strategies for Making Transportation-Land Use Connection

Felicia Young, Federal Highway Administration, presiding

Sponsored by Committee on Transportation and Land Development

Panel Discussion

Hannah Twaddell, Thomas Jefferson Planning District Commission; Patricia Rincon-Kallman, City of Houston Planning and Development; Gwen S. Anderson, Union Station Transport Development Company

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Wednesday, January 16, 7:30 p.m.-9:30 p.m., Marriott

Asphalt Pavement Construction Quality Control

E. Ray Brown, National Center for Asphalt Technology, presiding

Sponsored by Committee on Flexible Pavement Construction and Rehabilitation

Precision Statements for Ignition Oven Using Plant-Produced Mix, (02-2756)

Gregory A Sholar, Gale C. Page, and James A. Musselman, Florida Department of Transportation

Examination of Aggregate Degradation and Effect on Volumetric Properties, (02-2755)

Gregory A Sholar, Gale C. Page, and James A. Musselman, Florida Department of Transportation

Statistics for Superpave Hot-Mix Asphalt Construction Quality Control/Quality Assurance Data, (02-3425)

Frazier Parker Jr., Auburn University; M. Shabbir Hossain, Texas Tech University

Comparison of Fine Aggregate Specific Gravity Results and Variability Using Vacuum Sealing and Saturated Surface Dry Methods, (02-2801)

Kevin D. Hall, University of Arkansas

626

Wednesday, January 16, 7:30 p.m.-9:30 p.m., Marriott

Superpave Gyrotory Compactor: Issues and Solutions

Thomas P. Harman, Federal Highway Administration, presiding

Sponsored by Committee on General Issues in Asphalt Technology

History and Future Challenges of Gyrotory Compaction (1939-2001), (02-2512)

Thomas P. Harman and John Bukowski, Federal Highway Administration; Francis Moutier, Laboratoire Central des Ponts et Chaussées, France; Gerald Huber, Heritage Research Group; Robert B. McGennis, Koch Materials Company

Target and Tolerance Study for Angle of Gyration used in Superpave Gyrotory Compactor , (02-3891)

Ghazi G. Al-Khateeb, Charles Paugh, Thomas P. Harman, Kevin Stuart, and John D'Angelo, Federal Highway Administration

Benchmarking of Superpave Gyrotory Compactor Internal Angle of Gyration

Michael Huner, National Center for Asphalt Technology

Preliminary Findings of National Cooperative Highway Research Program Project 9-16

R. Michael Anderson, Asphalt Institute

627

Wednesday, January 16, 7:30 p.m.-9:30 p.m., Marriott

Quality Control of Improved Soils

Nazli Yesiller, Wayne State University, presiding

Sponsored by Committee on Soil and Rock Properties

Quality Management of Base and Subgrade Materials, (02-3683)

Soheil Nazarian and Deren Yuan, University of Texas, El Paso; Miguel Arellano, Texas Department of Transportation

Use of Amperage and Treatment Time Monitoring to Evaluate Stone Column Effectiveness, (02-2818)

Kyle M. Rollins, Brigham Young University; Eric Giles, G.C. Wallace, Inc.

Resilient Modulus of Minnesota Road Research Project Subgrade Soil, (02-3163)

Shongtao Dai and John Zollars, Minnesota Department of Transportation

Characteristics of Geogrid-Reinforced Aggregate Under Cyclic Load, (02-4091)

Jianjun Leng and Mohammed A. Gabr, North Carolina State University

628

Wednesday, January 16, 7:30 p.m.-9:30 p.m., Marriott

Miscellaneous Structural Issues

James E. Siebels, CH2M Hill, presiding

Sponsored by Committee on General Structures

Predicting Deflections in Concrete-Filled Grid Deck Panels, (02-2286)

Clark P Mangelsdorf, University of Pittsburgh; Tod H Baker, Westinghouse Electric Corporation; James A Swanson, University of Cincinnati

Static Measurement of Beam Deformations via Close-Range Photogrammetry, (02-2520)

David Villegas Jauregui, Kenneth R. White, Clinton B Woodward, and Kenneth Leitch, New Mexico State University

Forensic Investigation of Failed Mast Arms of Traffic Signal Support Structures, (02-2853)

Genda Chen, University of Missouri, Rolla; Michael Gary Barker, University of Missouri, Columbia; Scott Mickenzie, Houghton International, Inc.; Christopher Ramsay, University of Missouri, Rolla; Joseph L Alderson, Missouri Department of Transportation; Lokeswarappa R. Dharani, University of Missouri, Rolla

Evaluation and Selection of Bridge Expansion Joint Using Fuzzy Logic Expert System, (02-3128)

Shiou-San Kuo, University of Central Florida

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Wednesday, January 16, 7:30 p.m.-9:30 p.m., Marriott

Joint Research and Coupling Systems in Pipes

John M. Kurdziel, North Star Concrete Company, presiding

Sponsored by Committee on Culverts and Hydraulic Structures

Joint Design and Analysis for 36-in. Corrugated High-Density Polyethylene Pipe, (02-4134)

Tim Toliver, Hancor, Inc.

Coupling Systems for Corrugated Steel Pipe, (02-4092)

Brian C. Roberts, National Corrugated Steel Pipe Association

Design of Profile Gaskets, (02-2828)

John M. Kurdziel, Press-Seal Gasket Corporation

Development of New Small-Diameter Drainage Pipe, (02-3310)

Roger L. Brockenbrough, R. L. Brockenbrough & Associates, Inc.

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Wednesday, January 16, 7:30 p.m.-9:30 p.m., Marriott

Seismic Design and Analysis of Bridges

Ayaz H. Malik, New York State Department of Transportation, presiding

Sponsored by Seismic Design of Bridges

Cost Comparison of Typical Highway Bridge Designed for 2 Percent and 10 Percent Probability of Exceedance Earthquakes with Consideration of Abutment Slope Stability, (02-2428)

Jeffrey J.F. Ger, David Straatmann, Shyam Gupta, and Paul Porter, Missouri Department of Transportation

Modeling the Response of Reinforced Concrete Bridge Beam-Column Joints Subjected to Earthquake Loading, (02-3889)

Laura Nicole Lowes, University of Washington

Use of Response Modification Factors in Seismic Retrofit of Long-Span Steel Bridges

Abolhassan Astaneh-Asl, University of California, Berkeley

Developments in Seismic Design and Analysis of Bridges

Roy A. Imbsen, Imbsen & Associates, Inc.

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Wednesday, January 16, 7:30 p.m.-9:30 p.m., Shoreham Best Paper Award Winners from 5th International Conference on Managing Pavements

Roger E. Smith, Texas Transportation Institute, presiding

Sponsored by Committee on Pavement Management Systems

Plan for Nova Scotia Transportation Management Information System

Lynne Cowe Falls, University of Calgary, Canada

Second Generation Pavement Management System for Ministry of Transportation of Ontario

Thomas J. Kazmierowski, Ministry of Transportation of Ontario, Canada

Development of Quality Assurance and Control Procedures for Network-Level Contract Pavement Surface Condition Surveys

Lynne Cowe Falls, University of Calgary, Canada

Pavement Management Applications in Contract Maintenance

Kathryn A. Zimmerman, Applied Pavement Technology, Inc.

Pavement Performance Modeling: Approach in State of Maryland

Adel Hedfi, Axiom Decision Systems, Inc.

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Wednesday, January 16, 7:30 p.m.-9:30 p.m., Shoreham

Geometric Design Considerations

Joel P. Leisch, Consultant, presiding

Sponsored by Committee on Geometric Design

Local Optimization of Intersections for Highway Alignments, (02-2712)

Eungcheol Kim, University of Maryland, College Park; Manoj K. Jha, Maryland State Highway Administration; David J. Lovell and Paul M. Schonfeld, University of Maryland, College Park

Influence of Vertical Alignment on Horizontal Curve Perception: Phase I--Examining the Hypothesis, (02-2166)

Shaun Bidulka and Tarek Sayed, University of British Columbia, Canada; Yasser Hassan, Carleton University, Canada

Methodology to Calculate Sight Distance at Skewed Intersections Considering Driver's Position, (02-3487)

YoungTae Son, Myongji University, Korea; SangGu Kim, Korea Highway Corporation; JinKak Lee, Myongji University, Korea

Three-Dimensional Visualization Approach for Illustrating Esthetic Concepts for Design of Highways, (02-3677)

Tomasz P. Janikula and Norman Garrick, University of Connecticut

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Wednesday, January 16, 7:30 p.m.-9:30 p.m., Shoreham

Aircraft and Airport Infrastructure Compatibility

Michael T. McNerney, DMJM Aviation, presiding

Sponsored by Committee on Aircraft/Airport Compatibility

Integrated Simulation Method to Evaluate Impact of New Large Aircraft on Passenger Flows at Airport Terminals, (02-4046)

Chiung Yu Chiu and C. Michael Walton, University of Texas, Austin

New Large Aircraft and Impact on Airside Infrastructure of Existing Airports, (02-3956)

Thomas J. Haag, Washington Infrastructure Services, Inc.; Amiy Varma, North Dakota State University

New Aircraft Overrun Database, (02-2966)

Robert E. Caves, Loughborough University, United Kingdom

Development of Deterioration Prediction Models for Airfield Rigid Pavements, (02-2359)

Young-Chan Suh, Dong-Yeob Park, and Kyoung-Young Jeong, Hanyang University, Korea

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Wednesday, January 16, 7:30 p.m.-9:30 p.m., Hilton

Evaluating Share-the-Road Initiatives

J. Scott Osberg, AAA Foundation for Traffic Safety, presiding

Sponsored by Committee on Bicycling

Evaluation of Share-the-Road Programs

J. Scott Osberg, AAA Foundation for Traffic Safety; William W. Hunter, University of North Carolina, Chapel Hill

MP-23 Evaluation of Combined Bicycle Lane and Right-Turn Lane in Eugene, Oregon, (02-2320)

William W. Hunter, University of North Carolina, Chapel Hill

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Wednesday, January 16, 7:30 p.m.-9:30 p.m., Hilton

Intelligent Transportation Systems and Travel Time Data Collection

Robert T. Sicko, RTS Planning, presiding

Sponsored by Committee on Urban Transportation Data and Information Systems

Statistical Comparison of Travel Time Estimates Obtained from Intelligent Transportation Systems and Instrumented Test Vehicles, (02-2124)

William Eisele, Texas Transportation Institute; Laurence R. Rilett, Texas A&M University System

Estimating Corridor Travel Time Mean, Variance, and Covariance with Intelligent Transportation Systems Link Travel Time Data, (02-2126)

William Eisele, Texas Transportation Institute; Laurence R. Rilett, Texas A&M University System

Estimating Travel Time Summary Statistics of Larger Intervals from Smaller Intervals Without Storing Individual Data, (02-3043)

Dongjoo Park, Asian Institute of Technology, Thailand; Laurence R. Rilett, Texas A&M University System

Transit Vehicles as Traffic Probe Sensors, (02-2228)

Daniel J. Dailey, University of Washington

Reconsideration of Sample Size Requirements for Field Traffic Data Collection Using Global Positioning System Devices, (02-2129)

Shuo Li and Karen Zhu, Indiana Department of Transportation; Boudewijn H. W van Gelder, Purdue University; John Nagle and Carl Tuttle, Indiana Department of Transportation

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Wednesday, January 16, 7:30 p.m.-9:15 p.m., Hilton

Survey Issues in Today's Environment

Nancy McGuckin, Consultant, presiding

Sponsored by Committee on Travel Survey Methods

Design Characteristics of National Travel Surveys, (02-2217)

Uwe Alfred Kunert, Jutta Kloas, and Hartmut Kuhfeld, German Institute of Economic Research

Abu Dhabi Travel Behavior Survey Design, Procedures, and Results, (02-2929)

Abdullah Salim Al-Kathairi, Abu Dhabi Municipality, United Arab Emirates; Rasin K Mufti and Atef M Garib, Abu Dhabi Municipality; Bradlee F. Williams and Ibrahim El Sanhoury, DeLeuw, Cather International Limited

Case for Standardizing Household Travel Surveys, (02-2171)

Peter R. Stopher, University of Sydney, Australia; Chester G. Wilmot, Louisiana State University, Baton Rouge

Analysis of Nonresponse in London Area Travel Survey 2001 Pilot Household Travel Diary Survey, (02-3615)

John W. Polak, Imperial College of Science Technology and Medicine, United Kingdom

Thursday, January 17

700

Thursday, January 17, 8:00 a.m.-9:45 a.m., Marriott

Improving Durability and Environmental Friendliness of Hot-Mix Asphalt in Pavements, Part 1 (Part 2, Session 717)

Anne Stonex, Consultant, presiding

Sponsored by Committee on Characteristics of Nonbituminous Components of Bituminous Paving Mixtures; Committee on Characteristics of Bituminous-Aggregate Combinations To Meet Surface Requirements; and Committee on General Issues in Asphalt Technology

Effect of Wearing Surface Characteristics on Measured Pavement Skid Resistance and Texture, (02-2445)

Gerardo Flintsch, Imad L. Al-Qadi, and Robin Davis, Virginia Polytechnic Institute and State University; Kevin K. McGhee, Virginia Transportation Research Council

Coarse Versus Fine-Graded Superpave Mixtures: Comparative Evaluation of Resistance to Rutting, (02-2403)

Prithvi S. Kandhal and Larry Allen Cooley Jr., National Center for Asphalt Technology

Louisiana Experience with Crumb-Rubber-Modified Hot-Mix Asphalt Pavement, (02-2620)

Baoshan Huang, Louisiana Transportation Research Center; Louay N. Mohammad, Louisiana State University, Baton Rouge; Phillip S. Graves, Louisiana Transportation Research Center; Chris Abadie, Louisiana Department of Transportation and Development

Effect of Fine Aggregate Angularity on Compaction and Shearing Resistance of Asphalt Mixtures, (02-3239)

Anthony David Stakston, Hussain U. Bahia, and Jared Joseph Bushek, University of Wisconsin, Madison

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Thursday, January 17, 8:00 a.m.-9:45 a.m., Marriott

Incident Management

Sherif Ishak, Louisiana State University, presiding

Sponsored by Committee on Freeway Operations

Successful Strategies for Alternate Route Plan Deployment, (02-3639)

Walter M. Dunn, Jr., Robert A. Reiss, and Steven P. Latoski, Dunn Engineering Associates

Successful Incident Management on a Major Reconstruction Project, (02-3871)

Phil Charles, University of Queensland, Australia; Robert Higgins, Queensland Department of Main Roads, Australia

Evaluation of Freeway Diversion Route Plans Using Microscopic Simulation and Real-Time Data: Case of Idaho's Treasure Valley Corridor, (02-3391)

Ahmed Abdel-Rahim, University of Idaho; Mandar Khanal, Boise State University

Optimal Locations for Freeway Emergency Response Vehicles, (02-2952)

Jenish Joseph and Gang-Len Chang, University of Maryland

Mobile Sensor and Sample-Based Algorithm for Freeway Incident Detection, (02-2486)

Ruey-Long Cheu, Hongtu Qi, and Der-Hong Lee, National University of Singapore

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Thursday, January 17, 8:00 a.m.-9:45 a.m., Marriott

Personal Digital Assistant Software Applications in Construction

Richard C. Hanley, Connecticut Department of Transportation, presiding

Sponsored by Committee on Applications of Emerging Technology

AASHTO TRNS-PORT SitePad Personal Digital Assistant Software

Charles J. Conley, American Association of State Highway and Transportation Officials

Assessing Value of Using Handheld Computers in Construction

Kamel S. Saidi and Carl Haas, University of Texas, Austin

Providing Documentation for Construction and Maintenance of Transportation Infrastructure Using Handheld Computers, (02-2200)

Trefor Williams, Rutgers University

Implementation of Personal Digital Assistant Devices for Superpave Field Data Collection

Richard C. Hanley, Connecticut Department of Transportation

703

Thursday, January 17, 8:00 a.m.-9:45 a.m., Marriott

Real-Time Traffic Prediction and Modeling for Advanced Traffic Management System

Siamak A. Ardekani, University of Texas, Arlington, presiding

Sponsored by Committee on Traffic Flow Theory and Characteristics

Multivariate State-Space Approach for Urban Traffic Flow Modeling, (02-2465)

Matthew G. Karlaftis and Anthony Stathopoulos, National Technical University of Athens, Greece

General Purpose Methodology for Link Travel Time Estimation Using Multiple Point Detection of Traffic, (02-3991)

Cristian E. Cortes, Riju Lavanya, Jun-Seok Oh, and R. Jayakrishnan, University of California, Irvine

Reconstruction of False and Missing Data Using First-Order Traffic Flow Model, (02-3543)

Jean-Patrick A.R. Lebacque, INRETS, France

Dynamic Programming Approach for Online Freeway Flow Propagation Adjustment, (02-3420)

Xuesong Zhou and Hani S. Mahmassani, University of Texas, Austin

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Thursday, January 17, 8:00 a.m.-9:45 a.m., Marriott

Pedestrian Design Guidance

Cara Seiderman, City of Cambridge, presiding

Sponsored by Committee on Pedestrians

MP-1 New Pedestrian Provisions in MUTCD 2000

W. Scott Wainwright, Federal Highway Administration

MP-2 New Rulemaking and Guidance on Accessibility in Public Rights-of-Way

Jerry Markesino, Portland Office of Transportation; John N. LaPlante, T. Y. Lin BASCOR;
Jennifer Toole, AICP, SCI; Peggy Greenwell, U.S. Access Board; Barbara McMillen, U.S.
Department of Transportation

MP-3 Questions and Discussion

Cara Seiderman, City of Cambridge

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Thursday, January 17, 8:00 a.m.-9:45 a.m., Marriott

Geotechnical Applications of Time Domain Reflectometry and Fiber-Optic Sensors

Edward J. Hoppe, Virginia Transportation Research Council, presiding

Sponsored by Committee on Soils and Rock Instrumentation

Measuring Nonlocalized Soil Deformation Using Time Domain Reflectometry, (02-3717)

Charles E. Pierce, Yoshimasa Fujiyasu, and Cary McAlister, University of South Carolina

Factors Affecting Determination of Subgrade Water Content from Multisegment Time Domain Reflectometry Probes, (02-3359)

Gang Zuo, Wesley C. Wright, N. Randy Rainwater, Eric C. Drumm, and Ronald E. Yoder,
University of Tennessee, Knoxville

Pile Monitoring During Pushdown, Pullout, and Flexion Test Using Fiber-Optic Sensors, (02-2701)

Branko Glisic and Daniele Inaudi, SMARTEC SA, Switzerland; Claire Nan, RouteAero
Technology and Engineering, Taiwan

Geomeasurements with Metallic Time Domain Reflectometry Cable Technology for Infrastructure Surveillance, (02-2562)

Charles H. Dowding, Northwestern University

706

Thursday, January 17, 8:00 a.m.-9:45 a.m., Marriott

Long-Span Metal and Concrete Culverts

Ian D. Moore, University of Western Ontario, Canada, presiding

Sponsored by Committee on Subsurface Soil-Structure Interaction and Committee on Culverts and Hydraulic Structures

Finite Element Modeling of Reinforced Concrete Arch Under Live Load, (02-2867)

Eric Paul Mastroianni, Simpson Gumpertz & Heger, Inc.; Timothy J. McGrath, Simpson Gumpertz & Heger Inc.

Field Measurements of Long-Span Corrugated Steel Culvert Replacing Corroded Concrete Bridge, (02-3415)

Jan Vaslestad, Viacon, Norway; Arkadiusz Madaj, Poznan Institute of Technology, Poland; Leszek Janusz, Viacon, Poland

Instrumentation for Structural Evaluation of Con-Arch Culvert System, (02-3224)

Nicholas J. LaFronz and Michael Rucker, AMEC Earth & Environmental, Inc.

Limit States Design Equations for Large-Span Metal Culverts

Timothy J. McGrath, Simpson Gumpertz & Heger Inc.; Ian D. Moore, Queen's University, Kingston, Canada

707

Thursday, January 17, 8:00 a.m.-9:45 a.m., Marriott

What a Difference a CODES Makes

Karl Finison, Maine Health Information Center, presiding

Sponsored by Committee on Safety Data, Analysis, and Evaluation

Using CODES Linked Data to Evaluate Maine Crashes Involving Older Drivers

Karl Finison, Maine Health Information Center

Issues Related to Use of CODES Linked Data to Demonstrate Airbag Effectiveness

Mike Allen, HealthcareData.com, LLC

Using CODES Linked Data to Evaluate Significance of Driver Medical Conditions in Crash Outcome in Utah, 1992-1996.

Michael Dean, Intermountain Injury Control Research Center; Larry Cook, Utah CODES

708

Thursday, January 17, 8:00 a.m.-9:45 a.m., Marriott

Fiber-Reinforced Plastic Bonded Repair Applications and Evaluation

Mohsen Shahawy, SDR Engineering Consultants, Inc., presiding

Sponsored by Committee on Structural Fiber-Reinforced Plastics

Rehabilitation and Load Testing of Historical Bridges In Georgia Utilizing Composite Materials, (02-3878)

Paul V. Liles, Georgia Department of Transportation; Mohsen Shahawy, SDR Engineering Consultants, Inc.

Repair and Strengthening of Severely Damaged 32-Year-Old Prestressed Concrete Bridge Girders with Externally Bonded Fiber-Reinforced Plastic, (02-3401)

Calvin Eugene Reed and Robert J. Peterman, Kansas State University

Retrofit of Three-Span Slab Bridge with Four Different Fiber-Reinforced Plastic Systems, (02-3167)

Bahram M. Shahrooz, University of Cincinnati; Serpil Boy, LJB Engineers

Effectiveness of Fiber-Reinforced Plastic Laminates for Strengthening Concrete T-Beam Bridges, (02-2773)

Osman Y. Hag-Elsafi, Jonathan Kunin, and Sreenivas Alampalli, New York State Department of Transportation

709

Thursday, January 17, 8:00 a.m.-9:45 a.m., Shoreham

Concrete Bridges and Precast Concrete Substructures

Michael P. Culmo, CME Associates, Inc., presiding

Sponsored by Committee on Concrete Bridges

Thirty Years of Segmental Concrete Bridge Design and Construction Lessons Learned, (02-4168)

James M. Barker, HNTB Corporation

Instrumentation Plan and Early-Age Monitoring of High-Performance Concrete Bridge Girders in Missouri, (02-4063)

John J. Myers, Yumin Yang, and Ji Shen, University of Missouri, Rolla

Precast Posttensioned Abutment System for Rapid On-Site Construction, (02-2727)

Andrew Scanlon and Alex Aswad, Pennsylvania State University; James Stellar, Patel Chen Associates, Inc.

Grouted Connection Tests in Development of Precast Bent Cap System, (02-2581)

Eric Matsumoto, California State University, Sacramento; Michael E. Kreger, University of Texas, Austin; Mark Waggoner, Walter F. Moore and Associates; Guclu Sumen, Nelson Architectural Engineers, Inc.

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Thursday, January 17, 8:00 a.m.-9:45 a.m., Shoreham

Hydrologic Issues Related to Wetlands and Stream Stability

Wilbert O. Thomas Jr, Michael Baker, Jr., Inc., presiding

Sponsored by Committee on Hydrology, Hydraulics, and Water Quality

Wetlands Mitigation: Issues and Solutions

Michael Rolband, Wetlands Studies and Solutions, Inc.

Modeling Frequency and Duration of Tidal Inundations for Estuarine Restoration in Southwest Washington

Alan Wald, Washington State Department of Transportation

Hydrologic Design for Wetlands

Roger Kilgore, Kilgore Consulting and Management

Comparison of Bankfull Flows Using Partial Duration and Annual Maximum Flood Series

Jeffrey Knaub, Maryland State Highway Administration

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Thursday, January 17, 8:00 a.m.-9:45 a.m., Shoreham

Impact of Changing Aircraft Fleets on the Aviation System

Geoffrey David Gosling, University of California, Berkeley, presiding

Sponsored by Committee on Aviation System Planning

Implications of the NASA Small Aircraft Transportation System for Composition of the Future General Aviation Fleet

Jack F. Sheehan, AGATE Alliance Association, Inc.

Investigating Accessibility of Florida's Suburban and Rural Population to Commercial Air Transportation with respect to National Aeronautics and Space Administration Small Aircraft Transportation System Program, (02-2425)

Seth Bennett Young, Embry-Riddle Aeronautical University

Modeling of Aircraft Rotation in Multiple-Airport Environment, (02-2364)

Cheng-Lung Wu, Taipei Shung-San Airport, Taiwan; Robert E. Caves, Loughborough University, United Kingdom

712

Thursday, January 17, 8:00 a.m.-9:45 a.m., Hilton

Emerging Methods and Practices in Travel Modeling

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

Sponsored by Committee on Passenger Travel Demand Forecasting

Prediction of Recreational Travel Using Genetically Designed Regression and Time Delay Neural Network Models, (02-2377)

Pawan Lingras, Saint Mary's University, Canada; Satish C. Sharma and Ming Zhong, University of Regina, Canada

How Much Do I Pay to Drive? Modeling Expected Ownership and Operating Cost of Vehicles, (02-3229)

Abolfazl Mohammadian and Eric J. Miller, University of Toronto, Canada

Automobile Ownership Analysis Using Ordered Probit Models, (02-3597)

You-Lian Chu, Parsons Transportation Group, Inc.

Microsimulation in Travel Demand Modeling: Lessons from New York Best Practice Model, (02-3668)

Peter S. Vovsha, Eric Petersen, and Robert Donnelly, Parsons Brinckerhoff, Inc.

Managing Competition in Microsimulation: Implications for Destination Choice and Nonmotorized Modeling, (02-3697)

Eric Petersen, Peter S. Vovsha, and Robert Donnelly, Parsons Brinckerhoff, Inc.

713

Thursday, January 17, 8:00 a.m.-9:45 a.m., Hilton

Intelligent Systems for Parking and Emergency Services

Richard J. Weiland, Weiland Consulting Company, presiding

Sponsored by Committee on Intelligent Transportation Systems

Mathematical Formulation of Deterministic and Stochastic Parking Reservation Systems with Fixed Costs, (02-3445)

Kyriacos Constantinou Mouskos, City College of New York; David Bernstein, James Madison University; John Tavantzis, New Jersey Institute of Technology

Feasibility Study of Parking Information System in New York City, (02-3332)

Hualiang Teng and John C. Falcocchio, Polytechnic University of New York; Raman K. Patel, PB Farradyne, Inc.; Jose Ulerio and Yi Qi, Polytechnic University of New York

CORBA-Based Distributed Geographic Information Systems for Transportation for Emergency Medical Services, (02-3033)

Ta-Yin Hu, Feng-Chia University, Taiwan

714

Thursday, January 17, 8:00 a.m.-9:45 a.m., Hilton

Dynamic Traffic Assignment

Athanasios Ziliaskopoulos, Northwestern University, presiding

Sponsored by Committee on Transportation Network Modeling

Hybrid Real-Time Dynamic Traffic Assignment Approach for Robust Network Performance, (02-2923)

Yi-Chang Chiu and Hani S. Mahmassani, University of Texas, Austin

Adaptive Speed Estimation Using Transfer Function Models for Real-Time Dynamic Traffic Assignment Operation, (02-2753)

Nhan H. Huynh and Hani S. Mahmassani, University of Texas, Austin; Hossein Tavana, Continental Airlines

Dynamic Network Traffic Assignment and Simulation Methodology for Advanced System Management Applications, (02-3560)

Hani S. Mahmassani, University of Texas, Austin

Dynamic Network User Equilibrium with State-Dependent Time Lags, (02-3718)

Terry L. Friesz, George Mason University

Analytical Models of Dynamic Traffic Assignment Problem, (02-3381)

David E. Boyce, University of Illinois, Chicago; Der-Horng Lee, National University of Singapore; Bin Ran, University of Wisconsin, Madison

Foundations of Dynamic Traffic Assignment: Past, Present, and Future, (02-2861)

Athanasios Ziliaskopoulos, Northwestern University; Srinivas Peeta, Purdue University

715

Thursday, January 17, 8:00 a.m.-9:45 a.m., Hilton

Advances in Video Technology and Traffic Data Collection

Marsha Anderson Bomar, StreetSmarts, presiding

Sponsored by Committee on Urban Transportation Data and Information Systems

Effects of Observer's Position on Operating Speeds in Speed Data Collection, (02-3761)

Marcus A Brewer and Kay Fitzpatrick, Texas Transportation Institute

Dynamic Camera Calibration in Support to Intelligent Transportation Systems, (02-3851)

Daniel J. Dailey and Suree Pumrin, University of Washington

Effect of Field Setup on Traffic Data Collection Accuracy Using Machine Vision Technology, (02-3552)

Sunita Nadella, LAW-PCS; Lloyd Herman, Ohio University

Effects of Ambient Light, Camcorder Settings, and Automated License Plate Reader Settings on Plate Transcription Rates, (02-3092)

Michael Plotnikov and Paul W Shuldiner, University of Massachusetts, Amherst

Video License Plate Data Reduction, (02-2475)

Rajeev Gupta and Jon D. Fricker, Purdue University; David P. Moffett, Vutar Technologies

Cleaning of Matched Registration Number Plate Data, (02-2069)

Stephen D. Clark, University of Leeds, United Kingdom; Susan Grant-Muller and Haibo Chen, Institute for Transport Studies

716

Thursday, January 17, 8:00 a.m.-10:45 a.m., Hilton

Transportation Finance, Part 1: Public Policy (Part 2, Session 730)

Suzanne H. Sale, Arizona Department of Transportation, presiding

Sponsored by Committee on Taxation and Finance

Who Benefits from the Budget of the Dutch Ministry of Transport?, (02-3444)

Francis Cheung, Ministry of Transport, Public Works, and Water Management, Netherlands

Highway Costs and Efficient Mix of State and Local Funds, (02-2752)

David M. Levinson and Bhanu Murali Krishna Yerra, University of Minnesota

Segment Profitability Analysis of Arizona's State Highway System, (02-2028)

John Semmens, Arizona Department of Transportation; Eric Matranga, Arizona State University

Review of Virginia Department of Transportation's Business Relocation Process, (02-2330)

Cherie A. Kyte, Amy A. O'Leary, and Michael A. Perfater, Virginia Transportation Research Council

Thursday, January 17, 8:30 a.m.-5:00 p.m., Marriott

**W49 Motor Carrier Safety Research and Technology : 2nd Annual Workshop,
Plenary Sessions**

Phyllis E. Young, Federal Motor Carrier Safety Administration, presiding

Explore research and technology needs for motor carrier safety, including current and potential programs and strategies for implementation. The workshop offers presentations and breakout discussion groups. The \$20 ticket fee includes a box lunch. The program is organized by the Federal Motor Carrier Safety Administration.

Thursday, January 17, 8:30 a.m.-5:00 p.m., Marriott

W49 Motor Carrier Safety Research and Technology: 2nd Annual Workshop

Phyllis E. Young, Federal Motor Carrier Safety Administration, presiding

Explore research and technology needs for motor carrier safety, including current and potential programs and strategies for implementation. Presentations and breakout discussion sessions are included.

**Thursday, January 17, 9:00 a.m.-5:00 p.m., Hilton
W50 Tutorial on Fuel-Cell Vehicles**

This tutorial workshop will be an independent, non-commercial short course on fuel cell vehicle (FCV) technology and policy, organized by ITS-Davis. The two-day event will provide government officials, environmental non-government organizations, transportation researchers, industry and other stakeholders with a basic understanding of FCV technology, fuels, markets, environmental impacts, and policy. Sponsored by the Committees on Transportation Energy and Alternative Transportation Fuels; the University of California at Davis Institute of Transportation Studies (ITS-Davis); and the W. Alton Jones Foundation

**Thursday, January 17, 9:30 a.m.-11:30 a.m., Hilton
International Survey Methods Conference**
Sponsored by Committee on Travel Survey Methods

717

**Thursday, January 17, 10:15 a.m.-noon, Marriott
Improving Durability and Environmental Friendliness of Hot-Mix Asphalt in
Pavements, Part 2 (Part 1, Session 700)**

Dean A. Maurer, Pennsylvania Department of Transportation, presiding
*Sponsored by Committee on Characteristics of Bituminous Materials; Committee on
Characteristics of Nonbituminous Components of Bituminous Paving Mixtures; and
Committee on Characteristics of Bituminous-Aggregate Combinations To Meet Surface
Requirements*

Influence of Asphalt Tack Coat Materials on Interface Shear Strength, (02-3301)

Louay N. Mohammad and Md A. Raqib, Louisiana State University, Baton Rouge; Baoshan
Huang, Louisiana Transportation Research Center

**Effect of Crumb Rubber Particle Size and Content on Low-Temperature Rheological
Properties of Binders, (02-2240)**

Peter E. Sebaaly and Venu Gopal, University of Nevada, Reno; Jon Epps, Granite
Construction, Inc.

**Analysis of Statistical Distribution of Failure Stress Values Determined Using Superpave
Direct Tension Test, (02-3892)**

Raj N. Dongre, Dongre Laboratory Services, Inc.; Charles E. Antle, Pennsylvania State
University

Hot-Mix Asphalt Smoke and Emission Potential, (02-3144)

Mary Stroup-Gardiner and Cliff Lange, Auburn University

718

Thursday, January 17, 10:15 a.m.-noon, Marriott

Ramp Metering

Marguerite L. Zarrillo, University of Massachusetts, Dartmouth, presiding

Sponsored by Committee on Freeway Operations

Evaluation of Ramp Control Effectiveness in Two Twin Cities Freeways, (02-2675)

John Hourdakis and Panos G. Michalopoulos, University of Minnesota

Evaluating Ramp Meters: Evidence from Twin Cities Ramp Meter Shut-Off, (02-2167)

David M. Levinson, Lei Zhang, Shantanu Das, and Atif Sheikh, University of Minnesota

Adaptive Fuzzy Systems for Traffic-Responsive and Coordinated Ramp Metering, (02-3516)

Klaus Bogenberger and Hartmut Keller, Munich University of Technology, Germany; Stephen G. Ritchie, University of California, Irvine

Development of Simulation Laboratory for Evaluating Ramp Metering Algorithms, (02-3427)

Lianyu Chu, Xianghong Liu, and Will Recker, University of California, Irvine; H. Michael Zhang, University of California, Davis

Developing Control Strategies for Freeway Merging Points Under Congested Traffic Situations Using Modeling and Simulation Approach, (02-2490)

Majid Sarvi and Masao Kuwahara, University of Tokyo, Japan; Avi Ceder, Technion - Israel Institute of Technology

719

Thursday, January 17, 10:15 a.m.-noon, Marriott

Smart Structures

Richard G. Griffin Jr., Colorado Department of Transportation, presiding

Sponsored by Committee on Applications of Emerging Technology

Application of Smart Structure Technologies in Transportation Programs

Steven B. Chase, Federal Highway Administration

Using Bragg Grating Sensors in Three-Span Prestressed Concrete Girder Structure and a Quay Wall

Wim Moerman, Flanders at Ghent University, Belgium

Nanostrain-Level High-Channel Measuring Systems

Michael D. Todd, U.S. Naval Research Laboratory

Dynamic Similarity and Its Effects in Health Monitoring of Complex, Hybrid Structures

Douglas Adams, Purdue University

720

Thursday, January 17, 10:15 a.m.-noon, Marriott

Measurement of Traffic Characteristics and Calibration of Traffic Simulation Models

Nathan H. Gartner, University of Massachusetts, presiding

Sponsored by Committee on Traffic Flow Theory and Characteristics

Multiple Car-Following Data Using Real-Time Kinematic Global Positioning System, (02-4137)

Gemunu Senadeera Gurusinghe, University of Peradeniya, Sri Lanka; Takashi Nakatsuji, Hokkaido University, Japan; Yoichi Azuta, Civil Engineering Research Institute of Hokkaido, Japan; Prakash Ranjitkar, Underground Engineering Services, Thailand; Yordphol Tanaboriboon, Asian Institute of Technology, Thailand

Comparison and Calibration of INTEGRATION and CORSIM Steady-State Car-Following Behavior, (02-2143)

Hesham Ahmed Rakha, Virginia Polytechnic Institute and State University; Brent Crowther, Kimley-Horn and Associates

Headway Models for Low- to High-Volume Highway Traffic, (02-3541)

Sedigheh Sadeghgosseini and Rahim F. Benekohal, University of Illinois, Urbana-Champaign

Artificial Neural Network Application to Estimation of Vehicle Headways in Freeway Sections, (02-3372)

Adel Abdennour and Ali Saeed Al-Ghamdi, King Saud University, Saudi Arabia

Freeway Calibration and Applications of PARAMICS Model, (02-3803)

Yonnel Gardes, California PATH Program; Adolf D. May Jr., Joy Wilbrand Dahlgren, and Alexander Skabardonis, University of California, Berkeley

Application of Car-Following Systems to Queue Discharge Problem at Signalized Intersections, (02-2838)

Stephen L. Cohen, Consultant

721

Thursday, January 17, 10:15 a.m.-noon, Marriott

Pedestrian Safety Research

Michael J. Cynecki, City of Phoenix, presiding

Sponsored by Committee on Pedestrians

Research on Improving Motorist Safety at Crosswalks on Roads with Uncontrolled Approach, (02-2744)

Ron G. Van Houten and J.E. Louis Malenfant, Center for Education and Research in Safety, Canada; David Rice-Smith, Nova Scotia Department of Transportation and Public Works, Canada; Dave McCusker, Halifax Regional Municipality, Canada

Sidewalk Cross-Slope Design: Analysis of Accessibility for Persons with Disabilities, (02-2471)

Kara M. Kockelman, Lydia Heard, Young-Jun Kweon, and Thomas W. Rioux, University of Texas, Austin

Pedestrian Visibility at Night: Evaluating a Method of Teaching Young Drivers to Be Safer Pedestrians, (02-3819)

Johnell O. Brooks, Richard A. Tyrrell, and Heather M. Olson, Clemson University

Walking Experiment Under Icy Conditions, (02-3466)

Yoko Shintani, Hokkaido Development Engineering Center, Japan; Fumihiro Hara, Hokkaido Development Engineering Center, Inc., Japan; Kyoichi Hori and Makoto Yuri, Hokkaido University, Japan

722

Thursday, January 17, 10:15 a.m.-noon, Marriott

Instrumentation and Testing of Bridge Foundations

Sreenivas Alampalli, New York State Department of Transportation, presiding

Sponsored by Committee on Soils and Rock Instrumentation and Committee on Dynamics and Field Testing of Bridges

Pore Pressure Response of Liquefied Sand in Full-Scale Lateral Pile Load Tests, (02-3631)

Scott A. Ashford and Thomas Jay Weaver, University of California, San Diego; Kyle M. Rollins, Brigham Young University

Using Tiltmeters to Monitor Pier Movement: Case Study, (02-3485)

Kenneth Monroe Berry, URS Corporation; Gregory B. Heckel, Illinois Department of Transportation

Control and Monitoring of Bridge Abutment Stabilization Project, (02-2891)

Robert Y. Liang, University of Akron; Gene Geiger and Jawdat Siddiqi, Ohio Department of Transportation

Applicability of Abutment Stiffness Model to Large-Scale Field Test, (02-2007)

Raj V. Siddharthan, University of Nevada, Reno; Mahmoud El-Gamal, Professional Service Industries, Inc.; Magdy El-Desouky and Mohey El-Mously, University of Nevada, Reno

723

Thursday, January 17, 10:15 a.m.-noon, Marriott

Performance of Thermoplastic and Long-Span Corrugated Pipes and Condition Rating Culverts

James J. Hill, Consultant, presiding

Sponsored by Committee on Culverts and Hydraulic Structures

Performance Evaluation of High-Density Polyethylene Culvert Pipe, (02-2042)

Sarah Gassman, University of South Carolina; Aaron Schroeder, Naval Facilities Engineering Service Center; Richard Ray, University of South Carolina

Factors for Rating the Condition of Culverts for Repair or Replacement Needs, (02-2122)

Joel Cahoon, Jodi L. Carson, and Dan Baker, Montana State University

Performance of Thermoplastic Culvert Pipe Under Highway Vehicle Loading, (02-3193)

Timothy J. McGrath and Steven J. Dello Russo, Simpson Gumpertz & Heger, Inc.; John Boynton, Minnesota Department of Transportation

724

Thursday, January 17, 10:15 a.m.-noon, Marriott

Identifying Sites with Promise for Safety Improvements and Evaluation of Countermeasures

Bhagwant Persaud, Ryerson Polytechnic University, Canada, presiding

Sponsored by Committee on Safety Data, Analysis, and Evaluation

Screening the Road Network for Sites with Promise, (02-2182)

Ezra Hauer, University of Toronto, Canada; Jake Kononov and Bryan K Allery, Colorado Department of Transportation; Michael S. Griffith, Federal Highway Administration

Systematic Identification of High-Crash Locations, (02-3195)

Reginald R. Souleyrette, Ali R. Kamyab, and Zachary Hans, Iowa State University; Aemal J. Khattak, University of Nebraska, Lincoln; Keith K. Knapp, Iowa State University

Methodologies Used to Analyze Collision Experience Associated with Speed Limit Changes on Selected California Highways, (02-3183)

Reed Gibby, Curt Haselton, Thomas C. Ferrara, and Ahmad Khorashadi, California State University, Chico

Analysis of Serious Crashes and Potential Countermeasures on North Carolina Highways, (02-2706)

Herman F. Huang, University of North Carolina, Chapel Hill; Robert James Schneider, Sprinkle Consulting Inc.; Charles V. Zegeer and Asad J. Khattak, University of North Carolina, Chapel Hill; James Kevin Lacy, University of North Carolina

Effectiveness of Intersection Safety Improvements Using Crash Reduction Factors and Benefit-Cost Ratios, (02-3011)

Gary B. Thomas, Texas Transportation Institute; Daniel J. Smith, Iowa State University; Tom Welch, Iowa Department of Transportation

725

Thursday, January 17, 10:15 a.m.-noon, Shoreham

Topics in Steel Bridges

Charles Seim, T.Y. Lin International, presiding

Sponsored by Committee on Steel Bridges

Complex Steel Design and Fabrication: Newark Airport Monorail Extension, (02-4024)

Michael Hebor and Kenneth Wright, HDR Engineering, Inc.

Shear Panel Behavior in High-Performance Steel Hybrid Girders, (02-2664)

Michael Gary Barker, University of Missouri, Columbia

Reliability of Girder Bridges Considering Edge-Stiffening and Diaphragms, (02-2726)

Christopher D Eamon, Mississippi State University; Andrzej S. Nowak, University of Michigan

Girder Differential Deflection and Distortion-Induced Fatigue in Steel Bridges, (02-3412)

Evan Berglund and Arturo E. Schultz, University of Minnesota

726

Thursday, January 17, 10:15 a.m.-noon, Shoreham

Advances in Water Quality Research

John J. Sansalone, Louisiana State University, presiding

Sponsored by Committee on Hydrology, Hydraulics, and Water Quality

Relative Performance of Structural Stormwater Best Management Practices, (02-2444)

Michael Barrett, University of Texas; Steve Borroum, California Department of Transportation

Characteristics of Stormwater Runoff from California Department of Transportation Facilities, (02-4065)

Masoud Kayhanian, University of California, Davis; Linda Hollingsworth, Law Engineering & Environmental Services, Inc.

Research Needs That Address Transportation Water Quality, (02-2264)

G. Kenneth Young and Stuart M. Stein, GKY & Associates, Inc.; Marjie Zeff, URS Corporation

Role of Pavement Surface Drainage and Dry Deposition on Geospatial Distribution of Metal Elements in Highway Surficial Soils, (02-3848)

John J. Sansalone, Louisiana State University

727

Thursday, January 17, 10:15 a.m.-noon, Shoreham

Effect of Recent Changes in Air Travel on Efforts to Streamline Airport Development Process

Burr Stewart, Seattle-Tacoma International Airport, presiding

Sponsored by Committee on Aviation System Planning and Task Force on Environmental Impacts of Aviation

Panel Discussion

Katherine Andrus, Akin, Gump, Strauss, Hauer & Field LLP; R. John Hansman Jr., Massachusetts Institute of Technology; Bonnie A. Wilson, Airports Council International - North America

728

Thursday, January 17, 10:15 a.m.-noon, Hilton

Integrated Land Use-Transportation Modeling: Accessibility and Uncertainty Propagation Considerations

Eric J. Miller, University of Toronto, Canada, presiding

Sponsored by Committee on Passenger Travel Demand Forecasting and Committee on Transportation and Land Development

Analysis of Activity-Based Accessibility, (02-3760)

Xiaoqing Dong, Northwestern University; Moshe E. Ben-Akiva and John L. Bowman, Massachusetts Institute of Technology

Incorporating Nonmotorized Mode and Neighborhood Accessibility in Integrated Land Use and Transportation Model System, (02-3396)

Paul Waddell, University of Washington; Firouzeh Nourzad, Urban Analytics

Influence of Urban Form and Land Use on Mode Choice: Evidence from 1996 Bay Area Travel Survey, (02-3323)

Michael K. Reilly, University of California, Berkeley

Uncertainty Propagation in Integrated Land Use-Transportation Modeling Framework: Output Variation via UrbanSim, (02-2739)

Anant Pradhan and Kara M. Kockelman, University of Texas, Austin

Flexible Modeling Strategies for Assessment of Transportation Influence on Accessibility, (02-2588)

Sharada Vadali, Texas Transportation Institute

729

Thursday, January 17, 10:15 a.m.-noon, Hilton

Transportation Networks

Anthony Chen, Utah State University, presiding

Sponsored by Committee on Transportation Network Modeling

Building Our Way Out of Congestion?, (02-2895)

Kate Sanderson and Gary A. Davis, University of Minnesota

Calibration and Evaluation of MITSIMLab in Stockholm, (02-3347)

Moshe E. Ben-Akiva, Angus Davol, and Tomer Toledo, Massachusetts Institute of Technology; Haris N. Koutsopoulos, Volpe National Transportation Systems Center; Wilco Burghout and Ingmar Andreason, Royal Institute of Technology, Sweden; Tobias Johansson and Christer Lundin, GFK, Sweden

Emergence of Private Advanced Traveler Information Service Providers and Its Effect on Traffic Network Performance, (02-3988)

Jun-Seok Oh and R. Jayakrishnan, University of California, Irvine

Internodal Delay Issues in Long-Range, Adaptive Traffic Forecasts, (02-2450)

Alan J. Horowitz, University of Wisconsin, Milwaukee

Determining Critical Arcs for Collecting Real-Time Travel Information, (02-2406)

Baiyu Yang, American Airlines; Elise D. Miller-Hooks, Pennsylvania State University

Algorithms for Single-Origin Minimum Time Path Problems in Networks with Piecewise Linear Time-Dependent Link Travel Time Functions, (02-3380)

Ismail Chabini, Massachusetts Institute of Technology

730

Thursday, January 17, 10:45 a.m.-12:30 p.m., Hilton

Transportation Finance, Part 2: Toll Roads (Part 1, Session 716)

Frank J. Smith, Consultant, presiding

Sponsored by Committee on Taxation and Finance

Toll Rate and Related Factors in China's Highways, (02-2736)

Yuan-Hua Jia, Northern Jiaotong University, People's Republic of China; Zong Z. Tian, Texas Transportation Institute

Toll Road Concessions in Argentina: What Can Be Learned, (02-2411)

Jose Luis Nicolini, Consultant

Methodology for Feasibility Study of Toll Road Construction, (02-2280)

Mahmoud P. Saffarzadeh, Ministry of Roads and Transportation, Iran

Beggar Thy Neighbor: Empirical Model of Toll Choice, (02-2020)

David M. Levinson, University of Minnesota

Committee Meetings

E0000

Executive Committee

John M. Samuels, chair; Tuesday, 2:00 p.m.-3:00 p.m., new member orientation (Members Only), Marriott, Park Tower Suite 8206; Tuesday, 3:30 p.m.-6:30 p.m., Special Session (Members Only), Marriott, Delaware; Tuesday, 6:30 p.m.-9:30 p.m., Reception/Dinner (Members Only), Marriott, Medici; Wednesday, 8:30 a.m.-11:45 a.m., Business Meeting (Members Only), Marriott, Delaware; Wednesday, 2:30 p.m.-4:30 p.m., Business Meeting (Members Only), Marriott, Delaware; Wednesday, 6:15 p.m.-9:00 p.m., (members and invited guests only), Marriott, Wardman Suite 6300

SC001

Subcommittee for NRC Oversight

Lester A. Hoel, chair; Wednesday, 7:00 a.m.-8:30 a.m., Breakfast (Members Only), Marriott, Congressional

Technical Activities

A0000

Division A Council, Technical Activities

Harold R. Paul, chair; Sunday, 12:00 p.m.-4:00 p.m., (Members Only), Marriott, Congressional

Group 1 - Transportation Systems Planning and Administration

A1000

Group 1 Council, Transportation Systems Planning and Administration

Michael S. Bronzini, chair; Sunday, 4:30 p.m.-6:00 p.m., New Chairs, Hilton, Map; Sunday, 6:00 p.m.-9:00 p.m., Hilton, Monroe; Thursday, 7:30 a.m.-10:30 a.m., Members only, Hilton, Georgetown West

Section A - Management and Administration

A1A00

Section on Management and Administration

Patrick T. DeCorla-Souza, chair; Monday, 5:30 p.m.-7:00 p.m., Hilton, Chevy Chase

A1A01

Committee on Taxation and Finance

Frank J. Smith, chair; Tuesday, 7:30 p.m.-9:30 p.m., Hilton, Caucus

A1A01(1)

Joint Subcommittee on Pricing with A1A06(1) and A1C01(1)

Patrick De Corla-Souza, chair; Wednesday, 7:30 p.m.-9:30 p.m., Hilton, Georgetown West

A1A01(2)

Subcommittee on Pricing Outreach

Lee W. Munnich Jr., chair; Wednesday, 12:00 p.m.-2:00 p.m., Hilton, Conservatory

A1A02

Committee on Management and Productivity

Barbara Martin, chair; Monday, 7:30 p.m.-9:30 p.m., Hilton, Bancroft

A1A03

Committee on Intergovernmental Relations and Policy Processes

Peter E. Plumeau, chair; Tuesday, 7:30 p.m.-9:30 p.m., Comparative Analysis of State-Regional Relations in Statewide Transportation Planning After ISTEA (02-3212), Lisa Ann Schweitzer and Brian D. Taylor, University of California, Los Angeles

Development of a Comprehensive Regional Congestion Management System: Lessons in Integrating System Management with Planning and Programming in the WILMAPCO Region, (02-3220) Ted M. Matley and David Saladino, Wilmington Area Planning Council, Hilton, Conservatory

A1A04

Committee on Transportation Education and Training

Elaine E. Joost, chair; Tuesday, 9:30 a.m.-12:30 p.m., Hilton, Bancroft

A1A06

Committee on Transportation and Economic Development

Norman S.J. Foster and Patrick De Corla-Souza, co-chairs; Tuesday, 2:00 p.m.-5:00 p.m., 02-4084 - Property Values and Highway Expansions: An Investigation of Timing, Size, Location, and Use Effects, Hilton, State; Wednesday, 7:30 p.m.-9:30 p.m., Hilton, Georgetown West

Committee Meetings

- A1A07** **Committee on Strategic Management**
Robert C. Johns, chair; Tuesday, 9:00 a.m.-12:00 p.m., Hilton, Conservatory
- A1A07(1)** **Subcommittee on Regional Operating Organizations**
Jonathan L. Gifford and Valerie A. Briggs, co-chairs; Tuesday, 7:30 p.m.-9:30 p.m., Hilton, Bancroft
- Section B - Multimodal Freight Transportation
- A1B00** **Section on Multimodal Freight Transportation**
Christina S. Casgar, chair; Tuesday, 7:00 a.m.-8:00 a.m., Breakfast meeting for committee chairs only. (Members Only), Shoreham, Robert's Room
- A1B01** **Committee on Inland Water Transportation**
Robert W. Portiss, chair; Wednesday, 7:30 p.m.-9:30 p.m., Public Preferences for Managing the Upper Mississippi River System (02-3178), Bruce David Carlson, U.S. Army Corps of Engineers, Shoreham, Calvert
- A1B02** **Committee on Freight Transportation Planning and Logistics**
Isaac Shafran, chair; Monday, 7:30 p.m.-9:30 p.m., Shoreham, Calvert
- A1B04** **Committee on Motor Vehicle Size and Weight**
Robert M. Clarke, chair; Tuesday, 3:45 p.m.-5:30 p.m., Shoreham, Executive
- A1B05** **Committee on Intermodal Freight Transport**
Steven R. Kale, chair; Wednesday, 7:30 p.m.-9:30 p.m., Shoreham, Capitol
- A1B06** **Committee on Freight Transportation Economics and Regulation**
C. Gregory Bereskin, chair; Tuesday, 3:45 p.m.-5:30 p.m., Shoreham, Governors
- A1B07** **Committee on Urban Freight Transportation**
Susie Lahsene, chair; Tuesday, 7:30 p.m.-9:30 p.m., Shoreham, Executive
- A1B08** **Committee on Ports and Channels**
William F. Dryer Jr., chair; Monday, 7:30 p.m.-9:30 p.m., Container Port Investment Appraisal and Risk Analysis: An Illustrative Case Study, (02-3840), Thomas A. Grigalunas, University of Rhode Island
- An Application of the Techniques of Re-Engineering in Re-Designing Port Processes (02-3470), George Giannopoulos, Aristotle University of Thessaloniki, Shoreham, Capitol
- A1B09** **Committee on Freight Transportation Data**
Paul Bingham, chair; Monday, 7:30 p.m.-9:30 p.m., Shoreham, Embassy
- A1B10** **Committee on Local and Regional Rail Freight Transport**
David B. Clarke and Richard D. Robey, co-chairs; Monday, 7:30 p.m.-9:30 p.m., Shoreham, Governors
- A1B11** **Committee on Military Transportation**
Arlene L. Dietz, chair; Tuesday, 7:30 p.m.-9:30 p.m., Arms, Ammunition, and Explosives: A Way Ahead (P02-6342), Thomas Hicks, Military Traffic Management Command, Shoreham, Governors
- A1B14** **Committee on Transportation of Hazardous Materials**
John C. Allen, chair; Tuesday, 1:30 p.m.-5:30 p.m., Marriott, Wilson
- A1B55** **Task Force on Agricultural Transportation**
William J. Hall, chair; Monday, 7:30 p.m.-9:30 p.m., Shoreham, Executive
- Section C - Transportation Forecasting, Data, and Economics
- A1C00** **Section on Transportation Forecasting, Data, and Economics**
George T. Lathrop and Gordon A. Shunk, co-chairs; Monday, 7:00 a.m.-8:00 a.m., (Members Only), Hilton, Chevy Chase

Committee Meetings

- A1C01** **Committee on Transportation Economics**
David J. Forkenbrock and Patrick De Corla-Souza, co-chairs; Tuesday, 9:00 a.m.-12:00 p.m., 02-3810 - Dynamic Cost-Benefit Analysis in an Evolutionary Transport Sector: Applying the ASTRA Model

02-3421 - A Dynamic Lifetime Utility Model of Car Purchase Behavior Using Revealed Preference Consumer Panel Data, Hilton, Georgetown West; Wednesday, 7:30 p.m.-9:30 p.m., Hilton, Georgetown West
- A1C02** **Committee on Passenger Travel Demand Forecasting**
Chandra R. Bhat, chair; Tuesday, 8:00 a.m.-12:00 p.m., Hilton, Georgetown East
- A1C02(1)** **Subcommittee on Emerging Methods and Developments in Urban Activity and Travel Analysis**
Chandra R. Bhat, chair; Tuesday, 1:30 p.m.-3:15 p.m., Hilton, Edison
- A1C02(2)** **Subcommittee on Integrated Transportation and Land Use Modeling**
Eric J. Miller, chair; Wednesday, 7:30 p.m.-9:30 p.m., Hilton, Caucus
- A1C04** **Committee on Traveler Behavior and Values**
Konstadinos G. Goulias, chair; Monday, 7:30 p.m.-9:30 p.m., Hilton, Georgetown East
- A1C04(1)** **Subcommittee on Time Use and Activity Patterns**
Ram M. Pendyala, chair; Monday, 10:15 a.m.-12:00 p.m., Hilton, Farragut
- A1C04(2)** **Subcommittee on Route Choice and Spatial Behavior**
Jeffrey L. Adler, chair; Wednesday, 10:15 a.m.-12:00 p.m., Hilton, Farragut
- A1C04(3)** **Subcommittee on International Travel Behavior**
Konstadinos G. Goulias, chair; Monday, 8:00 a.m.-9:45 a.m., Hilton, Farragut
- A1C04(4)** **Subcommittee on Behavioral Processes**
Sean T. Doherty, chair; Wednesday, 8:00 a.m.-9:45 a.m., Hilton, Farragut
- A1C04(5)** **Subcommittee on Behavioral Aspects of Freight Transportation**
Frank Southworth, chair; Tuesday, 7:30 p.m.-9:30 p.m., Survey of Commercial Movements in Calgary, John Douglas Hunt, University of Calgary, Canada
Influence of Some Shipment Choice Factors on Australian Freight Shippers, Marcus Wigan, Oxford Systematics, Australia, Hilton, Grant
- A1C05** **Committee on Transportation Network Modeling**
Ali Haghani, chair; Wednesday, 7:30 p.m.-9:30 p.m., Hilton, Georgetown East
- A1C05(1)** **Subcommittee on Network Transit and Commercial Fleet**
Ali Haghani, chair; Tuesday, 1:30 p.m.-3:15 p.m., Hilton, Farragut
- A1C05(2)** **Subcommittee on Network Equilibrium Modeling**
Athanasios Ziliaskopoulos, chair; Tuesday, 3:45 p.m.-5:30 p.m., Hilton, Farragut
- A1C06** **Committee on Social and Economic Factors of Transportation**
William R. Black, chair; Tuesday, 2:00 p.m.-5:00 p.m., Hilton, Map
- A1C06(1)** **Joint Subcommittee on Community Impact Assessment**
Brenda C. Kragh and Judith Lindsey-Foster, co-chairs; Monday, 2:00 p.m.-5:00 p.m., Hilton, Dupont
- A1C07** **Committee on Transportation Planning Applications**
Richard S. Marshment, chair; Tuesday, 8:00 a.m.-12:00 p.m., Hilton, Map
- A1C08** **Committee on Telecommunications and Travel Behavior**
Susan Handy, chair; Tuesday, 12:00 p.m.-4:00 p.m., Hilton, Georgetown West
- [Section D - Transportation Systems Planning](#)
- A1D00** **Section on Transportation Systems Planning**
George T. Lathrop and Gordon A. Shunk, co-chairs; Monday, 7:00 a.m.-8:00 a.m., (Members Only), Hilton, Chevy Chase

Committee Meetings

- A1D01** **Committee on Statewide Multimodal Transportation Planning**
Neil J. Pedersen, chair; Wednesday, 2:30 p.m.-6:00 p.m., Hilton, State
- A1D01(2)** **Subcommittee on Statewide Travel Demand Forecasting**
Gordon A. Shunk, chair; Monday, 10:15 a.m.-12:00 p.m., Hilton, Hamilton
- A1D02** **Committee on Transportation and Land Development**
Robert T. Dunphy, chair; Wednesday, 8:00 a.m.-12:00 p.m., Hilton, Map
- A1D04** **Committee on Public Involvement in Transportation**
Brenda C. Kragh, Judith Lindsey-Foster, and Margaret Campbell Jackson, co-chairs; Monday, 8:00 a.m.-12:00 p.m., Integrating Visualization into Structured Public Involvement: A Case Study of Highway Improvement in Central Kentucky, (02-3113) Keiron Bailey, Joel Brumm, Theodore H. Grossardt, Kentucky Transportation Cabinet, Hilton, State; Monday, 2:00 p.m.-5:00 p.m., Hilton, Dupont
- A1D05** **Committee on Transportation Planning Needs and Requirements of Small and Medium-Sized Communities**
Katheryn Y. Briscoe, chair; Monday, 7:30 p.m.-9:30 p.m., Use of Digitally Enhanced Photographs to Improve Public Participation: A Case Study of Muenster, Texas, (02-3635) Kimberly Phillips, Texas Transportation Institute, Hilton, Map
- A1D05(1)** **Subcommittee on Planning for the Conference on Small and Medium-Sized Communities**
Katheryn Y. Briscoe, chair; Sunday, 8:00 a.m.-5:00 p.m., Hilton, Farragut
- A1D05(2)** **Subcommittee on Air Quality Issues in Small and Medium-Sized Communities**
Katheryn Y. Briscoe, chair; Tuesday, 8:00 a.m.-9:45 a.m., Hilton, Grant
- A1D06** **Committee on Transportation Programming, Planning, and Systems Evaluation**
Dale A. Janik, chair; Tuesday, 7:30 p.m.-9:30 p.m., Holistic Approach to Thoroughfare System Improvements, (02-3384) Michael H. Schrader, Consultant
Does Discussion Enhance Rationality? Communicative Rationality in Transportation Planning, (02-2765) Richard Wilson, California State Polytechnic University, Pomona; Marianne A. Payne and Ellen Smith, Bay Area Rapid Transit, Hilton, Map
- A1D06(1)** **Subcommittee on Performance Measures**
Lance A. Neumann, chair; Monday, 1:30 p.m.-5:30 p.m., Scoring Template for Prioritizing Transportation Improvement Projects, (02-2500) Rod E. Turochy, and John S. Miller, Virginia Transportation Research Council; James H. Lambert, University of Virginia, Hilton, State
- A1D07** **Committee on Access Management**
Arthur Jay Eisdorfer, chair; Tuesday, 1:30 p.m.-5:30 p.m., Hilton, Georgetown East
- A1D07(1)** **Subcommittee on the National Conference on Access Management**
Eddie Shafie, chair; Monday, 8:00 a.m.-12:00 p.m., Hilton, Jackson
- A1D07(2)** **Subcommittee on Research**
Philip B. Demosthenes, chair; Monday, 1:30 p.m.-3:15 p.m., Hilton, Grant
- A1D07(3)** **Subcommittee on Outreach**
John T. Taber, chair; Tuesday, 10:15 a.m.-12:00 p.m., Hilton, Grant
- A1D07(4)** **Subcommittee on Strategic Planning**
Ronald K. Giguere, chair; Tuesday, 8:00 a.m.-12:00 p.m., Hilton, Farragut
- A1D07(5)** **Subcommittee on Access Management Manual**
Arthur Jay Eisdorfer, chair; Monday, 3:45 p.m.-5:30 p.m., Hilton, Grant
- A1D08** **Committee on Urban Transportation Data and Information Systems**
Charles L. Purvis, chair; Monday, 1:30 p.m.-5:30 p.m., Hilton, Map
- A1D08(1)** **Subcommittee on Census Data for Transportation Planning**
Ed J. Christopher, chair; Wednesday, 2:30 p.m.-6:00 p.m., Hilton, Georgetown East
- A1D08(2)** **Subcommittee on Urban Metadata**
Marcus Wigan, chair; Monday, 12:00 p.m.-1:30 p.m., Hilton, Farragut

Committee Meetings

A1D09 Committee on Statewide Transportation Data and Information Systems

Ronald W. Tweedie, chair; Tuesday, 8:00 a.m.-12:00 p.m., Hilton, State

A1D10 Committee on Travel Survey Methods

Elaine R. Murakami, chair; Monday, 7:30 p.m.-10:00 p.m., Hilton, Georgetown West

Section E - Public Transportation

A1E00 Section on Public Transportation

Patricia V. McLaughlin, chair; Monday, 12:00 p.m.-1:30 p.m., Lunch
Executive Meeting - CLOSED (Members Only), Hilton, Independence; Wednesday, 7:00 a.m.-8:00 a.m., Breakfast
(Members Only), Hilton, Chevy Chase

A1E01 Committee on Bus Transit Systems

John Dockendorf, chair; Wednesday, 8:00 a.m.-12:00 p.m., Hilton, State

A1E02 Committee on Public Transportation Planning and Development

David R. Miller, chair; Monday, 7:30 p.m.-9:30 p.m., Hilton, Caucus

A1E03 Committee on Intermodal Transfer Facilities

Thomas R. Hickey, chair; Monday, 7:30 p.m.-9:30 p.m., Hilton, Conservatory

A1E04 Committee on Rail Transit Systems

Peter Fahrenwald, chair; Monday, 8:00 a.m.-12:00 p.m., Hilton, Map

A1E04(1) Subcommittee on Electric Trolley Bus

John D. Wilkins, chair; Monday, 1:30 p.m.-3:15 p.m., Hilton, Edison

A1E04(2) Subcommittee on International Rail Transit

Lee H. Rogers, chair; Monday, 3:45 p.m.-5:30 p.m., Hilton, Edison

A1E05 Committee on Transit Management and Performance

Lynn Ritter Otte, chair; Tuesday, 7:30 p.m.-9:30 p.m., Hilton, State

A1E05(1) Subcommittee on Transit Capital Replacement

Robert L. Peskin, chair; Monday, 7:30 p.m.-9:30 p.m., Hilton, Dupont

A1E06 Committee on Public Transportation Marketing and Fare Policy

Janet E. Kraus, chair; Tuesday, 1:30 p.m.-5:30 p.m., Hilton, Bancroft

A1E07 Committee on Commuter Rail Transportation

Emmanuel S. Horowitz, chair; Tuesday, 1:30 p.m.-5:30 p.m., Hilton, Conservatory

A1E07(1) Subcommittee on Diesel Multiple Unit Technologies

David O. Nelson, chair; Monday, 1:30 p.m.-5:30 p.m., Hilton, Farragut

A1E08 Committee on Rural Public and Intercity Bus Transportation

Jon E. Burkhardt, Richard A. Marottoli, Rosemary G. Mathias, and S. Ling Suen, co-chairs; Sunday, 1:30 p.m.-4:00 p.m., (Members Only), Hilton, State; Tuesday, 7:30 p.m.-9:30 p.m., Hilton, Dupont

A1E08(1) Subcommittee on Rural Conference Planning

Randy Isaacs, chair; Tuesday, 8:00 a.m.-12:00 p.m., Executive Meeting - CLOSED (Members Only), Hilton, Dupont

A1E09 Committee on Accessible Transportation and Mobility

Jon E. Burkhardt, Richard A. Marottoli, Rosemary G. Mathias, and S. Ling Suen, co-chairs; Sunday, 1:30 p.m.-4:00 p.m., (Members Only), Hilton, State; Wednesday, 8:00 a.m.-12:00 p.m., Hilton, Hemisphere

A1E09(1) Subcommittee on International Activities

Ann Frye and Maryvonne Dejeammes, co-chairs; Tuesday, 3:45 p.m.-5:30 p.m., Hilton, Edison

A1E09(2) Subcommittee on Accessible Transportation and Advanced Technology

Katharine M. Hunter-Zaworski, chair; Monday, 8:00 a.m.-9:45 a.m., Hilton, Grant

Committee Meetings

- A1E09(4) Subcommittee on Research**
Robert W. Barnes and Rosalyn M. Simon, co-chairs; Monday, 10:15 a.m.-12:00 p.m., Hilton, Grant
- A1E10 Committee on Paratransit**
Jon E. Burkhardt, Richard A. Marottoli, Rosemary G. Mathias, and S. Ling Suen, co-chairs; Sunday, 1:30 p.m.-4:00 p.m., (Members Only), Hilton, State; Tuesday, 7:30 p.m.-9:30 p.m., Hilton, Edison
- A1E10(1) Subcommittee on Committee Development**
Rosemary G. Mathias, chair; Tuesday, 1:30 p.m.-5:30 p.m., Hilton, Cabana 326
- A1E11 Committee on Major Activity Center Circulation Systems**
Lawrence J. Fabian and Wayne D. Cottrell, co-chairs; Wednesday, 8:00 a.m.-12:00 p.m., Hilton, Edison
- A1E12 Committee on Light Rail Transit**
John W. Schumann, chair; Wednesday, 2:30 p.m.-4:00 p.m., Hilton, Conservatory
- A1E12(1) Subcommittee on Light Rail Transit Conference Planning**
John W. Schumann, chair; Wednesday, 8:00 a.m.-12:00 p.m., (Members Only), Hilton, Grant
- A1E13 Committee on Intercity Rail Passenger Systems**
John C. Tone and Nazih K. Haddad, co-chairs; Monday, 1:30 p.m.-5:30 p.m., Shoreham, Calvert
- A1E13(1) Subcommittee on Intercity Rail Passenger Intermodal Interface**
George Haikalis, chair; Monday, 12:00 p.m.-1:30 p.m., Shoreham, Calvert
- A1E13(2) Subcommittee on Socioeconomic and Financial Impacts of Intercity Passenger Rail**
Rohit T. Aggarwala, chair; Monday, 12:00 p.m.-1:30 p.m., Shoreham, Governors
- A1E14 Committee on New Transportation Systems and Technology**
Edward S. Neumann, chair; Tuesday, 1:30 p.m.-5:30 p.m., Hilton, Dupont
- A1E14(1) Subcommittee on Carsharing and Station Cars**
Susan Shaheen, chair; Tuesday, 8:00 a.m.-12:00 p.m., Hilton, Edison
- A1E15 Committee on Ferry Transportation**
Raymond G. Deardorf, chair; Tuesday, 7:30 p.m.-9:30 p.m., Shoreham, Capitol
- A1E16 Committee on Transit Fleet Maintenance**
Stephen M. Stark, chair; Monday, 1:30 p.m.-5:30 p.m., Hilton, Kalorama
- A1E53 Task Force on Transit Capacity and Quality of Service**
Jack M. Reilly and Stephen J. Andrie, co-chairs; Tuesday, 7:30 p.m.-9:30 p.m., Hilton, Farragut
- A1E53(1) Subcommittee on Bus Capacity**
Daniel K. Boyle, chair; Monday, 7:30 p.m.-9:30 p.m., Hilton, Farragut
- A1E53(2) Subcommittee on Rail Capacity**
Samuel L. Zimmerman, chair; Monday, 7:30 p.m.-9:30 p.m., Hilton, Grant
- A1E53(3) Subcommittee on Paratransit Capacity**
Frank Spielberg, chair; Monday, 7:30 p.m.-9:30 p.m., Hilton, Hamilton
- A1E53(4) Subcommittee on Terminal Capacity**
Thomas R. Hickey, chair; Tuesday, 1:30 p.m.-3:15 p.m., Hilton, Hamilton
- A1E53(5) Subcommittee on Quality of Service**
Paul Ryus, chair; Tuesday, 3:45 p.m.-5:30 p.m., Hilton, Hamilton
- A1E53(6) Subcommittee on Highway Capacity and Quality of Service**
Kevin St Jacques, chair; Tuesday, 1:30 p.m.-5:30 p.m., Hilton, Jackson

Committee Meetings

Section F - Environmental Concerns

- A1F00 Section on Environmental Concerns**
Thomas L. Weck, chair; Monday, 12:00 p.m.-1:30 p.m., Hilton, Chevy Chase
- A1F01 Committee on Transportation Energy**
Marianne Millar Mintz, chair; Monday, 9:00 a.m.-12:00 p.m., Hilton, Hemisphere
- A1F02 Committee on Environmental Analysis in Transportation**
Brenda C. Kragh, Carol D. Cutshall, and Judith Lindsey-Foster, co-chairs; Monday, 2:00 p.m.-5:00 p.m., Hilton, Dupont; Monday, 7:30 p.m.-9:30 p.m., Hilton, Hemisphere
- A1F02(1) Subcommittee on Natural Resources and Stewardship**
Andras Fekete, chair; Tuesday, 2:00 p.m.-5:00 p.m., Hilton, Grant
- A1F03 Committee on Transportation and Air Quality**
Randall Guensler, chair; Tuesday, 7:00 p.m.-9:30 p.m., Hilton, Georgetown East
- A1F04 Committee on Transportation-Related Noise and Vibration**
Gregg G. Fleming, chair; Thursday, 10:00 a.m.-12:00 p.m., Hilton, Hemisphere
- A1F04(1) Subcommittee on Aircraft Noise**
Neal H. Phillips, chair; Wednesday, 8:00 a.m.-9:45 a.m., Hilton, Bancroft
- A1F04(2) Subcommittee on Guided Transit Noise**
James T. Nelson, chair; Wednesday, 10:15 a.m.-12:00 p.m., Hilton, Bancroft
- A1F04(3) Subcommittee on Highway Noise and Vibration**
Kenneth D. Polcak, chair; Thursday, 8:00 a.m.-9:45 a.m., Hilton, Hemisphere
- A1F05 Committee on Historic and Archeological Preservation in Transportation**
Beverly Chiarulli, chair; Wednesday, 2:30 p.m.-5:30 p.m., Hilton, Georgetown West
- A1F06 Committee on Alternative Transportation Fuels**
Danilo J. Santini, chair; Monday, 7:30 p.m.-9:30 p.m., Hilton, State
- A1F07 Committee on Waste Management in Transportation**
Robert E. Tatman, chair; Monday, 9:00 a.m.-12:00 p.m., Hilton, Dupont

Section J - Aviation

- A1J00 Section on Aviation**
Agam N. Sinha, chair; Tuesday, 12:00 p.m.-2:00 p.m., Luncheon meeting for Aviation Section committee chairs only., Shoreham, Robert's Room
- A1J01 Committee on Intergovernmental Relations in Aviation**
Roger P. Moog, chair; Tuesday, 5:30 p.m.-7:00 p.m., Shoreham, Calvert
- A1J02 Committee on Aviation Economics and Forecasting**
Gerald W. Bernstein, chair; Tuesday, 5:30 p.m.-7:00 p.m., Shoreham, Capitol
- A1J03(1) Subcommittee on Civil Helicopter Aviation**
David S. Lawrence, chair; Wednesday, 8:00 a.m.-12:00 p.m., Shoreham, Capitol
- A1J03(2) Subcommittee on Business Aviation**
Gerald S. McDougall, chair; Monday, 8:00 a.m.-12:00 p.m., Estimating the Value of Business Aviation: What Do People Pay to Fly in Private Aircraft? (02-2149), Joseph L. Schofer, Northwestern University, Shoreham, Calvert
- A1J03(3) Subcommittee on Regional and Commuter Airlines**
Tulinda Larsen, chair; Tuesday, 8:00 a.m.-12:00 p.m., Shoreham, Executive
- A1J04 Committee on Airport Terminals and Ground Access**
Jody Yamanaka Clovis, chair; Monday, 12:30 p.m.-1:30 p.m., Members Only, Shoreham, Executive; Monday, 1:30 p.m.-4:30 p.m., Open Meeting, Shoreham, Executive

Committee Meetings

- A1J05** **Committee on Airfield and Airspace Capacity and Delay**
Saleh A. Mumayiz, chair; Tuesday, 5:30 p.m.-7:00 p.m., Shoreham, Executive
- A1J07** **Committee on Aircraft/Airport Compatibility**
Michael T. McNerney, chair; Tuesday, 3:45 p.m.-5:30 p.m., Shoreham, Capitol
- A1J08** **Committee on Aviation System Planning**
Geoffrey D Gosling, chair; Wednesday, 7:30 p.m.-9:30 p.m., Shoreham, Executive
- A1J52** **Task Force on Environmental Impacts of Aviation**
Daniel Tompkins Wormhoudt, chair; Monday, 12:00 p.m.-1:30 p.m., Shoreham, Capitol
- A1T50** **Task Force on Transportation Asset Management**
Timothy J. Lomax, chair; Monday, 2:00 p.m.-5:00 p.m., Hilton, Caucus
- A1T52** **Task Force on Environmental Justice in Transportation**
Lori G. Kennedy, chair; Wednesday, 9:00 a.m.-12:00 p.m., Hilton, Conservatory
- Group 2 - Design and Construction of Transportation Facilities**
- A2000** **Group 2 Council, Design and Construction of Transportation Facilities**
Raymond K. Moore, chair; Sunday, 7:30 p.m.-10:00 p.m., (Members Only), Marriott, Nathan Hale; Thursday, 9:00 a.m.-12:00 p.m., (Members Only), Marriott, Nathan Hale
- Section A - General Design
- A2A00** **Section on General Design**
Lawrence J. Harrison, chair; Tuesday, 12:00 p.m.-2:00 p.m., (Members Only), Shoreham, Council
- A2A01** **Committee on Photogrammetry, Remote Sensing, Surveying and Related Automated Systems**
A. Keith Turner, chair; Monday, 7:30 p.m.-9:30 p.m., Marriott, McKinley
- A2A02** **Committee on Geometric Design**
Elizabeth Hilton, chair; Wednesday, 2:30 p.m.-6:00 p.m., Marriott, Virginia C
- A2A02(1)** **Subcommittee on Context Sensitive Geometric Design of Highways and Streets**
Nikiforos Stamatiadis, chair; Monday, 1:30 p.m.-3:15 p.m., Marriott, Balcony B
- A2A02(2)** **Subcommittee on Geometry, Safety, and Efficiency**
Karen Dixon, chair; Monday, 3:45 p.m.-5:30 p.m., Marriott, Balcony B
- A2A03** **Committee on Hydrology, Hydraulics, and Water Quality**
Peter N. Smith, chair; Wednesday, 8:00 a.m.-12:00 p.m., Marriott, Balcony C
- A2A04** **Committee on Roadside Safety Features**
King K. Mak, chair; Monday, 1:30 p.m.-5:30 p.m., Shoreham, Palladian
- A2A04(1)** **Subcommittee on Computational Mechanics**
Dean L. Sicking, chair; Wednesday, 2:30 p.m.-4:00 p.m., Marriott, Hall B6
- A2A04(2)** **Subcommittee on International Research Activities on Roadside Safety Features**
Malcolm D. Macdonald and Michael G. Dreznes, co-chairs; Wednesday, 4:30 p.m.-6:00 p.m., Marriott, Hall B6
- A2A05** **Committee on Landscape and Environmental Design**
Barbara A. Petrarca, chair; Monday, 8:00 a.m.-12:00 p.m., Marriott, Nathan Hale
- A2A07** **Committee on Utilities**
Sabin A. Yanez, chair; Tuesday, 8:00 a.m.-12:00 p.m., Marriott, Balcony C

Committee Meetings

Section B - Pavement Management

- A2B00 Section on Pavement Management**
Newton C. Jackson, chair; Sunday, 5:30 p.m.-8:00 p.m., (Members Only), Marriott, Congressional
- A2B01 Committee on Pavement Management Systems**
Thomas J. Kazmierowski, chair; Wednesday, 8:00 a.m.-12:00 p.m., Marriott, Hall B4
- A2B01(1) Subcommittee on Pavement Management Systems in Local Governments**
Paul Sachs, chair; Tuesday, 1:30 p.m.-3:15 p.m., Marriott, Virginia A
- A2B01(2) Subcommittee on Pavement Management Systems for Airports**
Steven R. McNeely, chair; Tuesday, 7:30 p.m.-9:30 p.m., Marriott, Hall B3
- A2B01(3) Subcommittee on International Conferences on Managing Pavements**
Ralph C.G. Haas, chair; Sunday, 1:30 p.m.-5:00 p.m., Marriott, Coolidge
- A2B02 Committee on Rigid Pavement Design**
Kathleen T. Hall, chair; Monday, 7:30 p.m.-9:30 p.m., Marriott, Hall B4
- A2B03 Committee on Flexible Pavement Design**
Stephen B. Seeds, chair; Monday, 1:30 p.m.-5:30 p.m., Marriott, Hall B4
- A2B04 Committee on Pavement Rehabilitation**
Shiraz D. Tayabji, chair; Tuesday, 8:00 a.m.-12:00 p.m., Marriott, Hall B4
- A2B05 Committee on Strength and Deformation Characteristics of Pavement Sections**
Judith B. Corley-Lay, chair; Tuesday, 1:30 p.m.-5:30 p.m., Marriott, Hall B4
- A2B05(1) Subcommittee on Backcalculation of Pavement Layer Moduli**
Per Ullidtz, chair; Wednesday, 7:30 p.m.-9:30 p.m., Marriott, Hall B5
- A2B06 Committee on Pavement Monitoring, Evaluation, and Data Storage**
Jerome F. Daleiden, chair; Wednesday, 2:30 p.m.-6:00 p.m., Marriott, Balcony C
- A2B06(1) Subcommittee on Automatic Computer Image Technology for Pavement Evaluation**
Naveed Sami, chair; Tuesday, 7:30 p.m.-9:30 p.m., Marriott, Coolidge
- A2B07 Committee on Surface Properties - Vehicle Interaction**
James C. Wambold, chair; Tuesday, 7:30 p.m.-9:30 p.m., Marriott, Balcony C
- A2B08 Committee on Highway Traffic Monitoring**
Mark P. Gardner, chair; Wednesday, 7:30 p.m.-9:30 p.m., Marriott, Hall B4
- A2B09 Committee on Full-Scale/Accelerated Pavement Testing**
Nicolaas F. Coetzee, chair; Monday, 8:00 a.m.-12:00 p.m., Marriott, Balcony B
- A2B09(1) Subcommittee on International Conferences on Accelerated Pavement Testing**
Glenn M. Engstrom and Kenneth W. Fults, co-chairs; Tuesday, 8:00 a.m.-12:00 p.m., Marriott, Hall B2

Section C - Structures

- A2C00 Section on Structures**
Andrzej S. Nowak, chair; Monday, 12:00 p.m.-2:00 p.m., (Members Only), Shoreham, Council
- A2C01 Committee on General Structures**
James E. Siebels, chair; Tuesday, 1:30 p.m.-5:30 p.m., Marriott, Balcony C
- A2C01(1) Subcommittee on Movement Systems for Structures**
Guy S. Puccio, chair; Wednesday, 8:00 a.m.-9:45 a.m., Marriott, Nathan Hale
- A2C01(2) Subcommittee on Bridge Aesthetics**
Martin P. Burke Jr., chair; Wednesday, 10:15 a.m.-12:00 p.m., Marriott, Nathan Hale

Committee Meetings

- A2C02** **Committee on Steel Bridges**
Robert A.P. Sweeney, chair; Tuesday, 7:30 p.m.-9:30 p.m., Marriott, Hall B4
- A2C02(1)** **Subcommittee on Methods of Analyzing Steel Bridges**
Dan M. Frangopol, chair; Wednesday, 7:30 p.m.-9:30 p.m., Marriott, Hall B2
- A2C03** **Committee on Concrete Bridges**
Mary Lou Ralls, chair; Wednesday, 2:30 p.m.-6:00 p.m., Marriott, Hall B4
- A2C04** **Committee on Tunnels and Underground Structures**
Mohammad Irshad, chair; Wednesday, 8:00 a.m.-12:00 p.m., Marriott, Hall B2
- A2C05** **Committee on Dynamics and Field Testing of Bridges**
F. Wayne Klaiber, chair; Monday, 8:00 a.m.-12:00 p.m., Marriott, Hall B4
- A2C05(1)** **Subcommittee on Non-Destructive Evaluation of Bridges**
Steven B. Chase, chair; Monday, 7:30 p.m.-9:30 p.m., Marriott, Hall B3
- A2C06** **Committee on Culverts and Hydraulic Structures**
James J. Hill, chair; Tuesday, 8:00 a.m.-12:00 p.m., Marriott, Hall B5
- A2C07** **Committee on Structural Fiber-Reinforced Plastics**
Eric Munley, chair; Monday, 7:30 p.m.-9:30 p.m., Marriott, Nathan Hale
- A2C08** **Committee on Seismic Design of Bridges**
Emmanuel Maragakis, chair; Sunday, 7:30 p.m.-9:30 p.m., Marriott, Wilson

Section D - Bituminous

- A2D00** **Section on Bituminous**
Gale C. Page, chair; Tuesday, 5:30 p.m.-9:30 p.m., (Members Only), Marriott, Roosevelt
- A2D01** **Committee on Characteristics of Bituminous Materials**
Michael Zupanick, chair; Wednesday, 8:00 a.m.-12:00 p.m., Marriott, Hall B5
- A2D02** **Committee on Characteristics of Nonbituminous Components of Bituminous Paving Mixtures**
Anne Stonex, chair; Tuesday, 1:30 p.m.-5:30 p.m., Marriott, Hall B5
- A2D03** **Committee on Characteristics of Bituminous-Aggregate Combinations To Meet Surface Requirements**
Timothy B. Aschenbrener, chair; Monday, 8:00 a.m.-12:00 p.m., Marriott, Hall B5
- A2D04** **Committee on Characteristics of Bituminous Paving Mixtures To Meet Structural Requirements**
Reynaldo Roque, chair; Monday, 7:30 p.m.-10:00 p.m., Marriott, Hall B5

Section E - Concrete

- A2E00** **Section on Concrete**
Michael M. Sprinkel, chair; Tuesday, 11:00 a.m.-3:15 p.m., (Members Only), Marriott, Thomas Paine
- A2E01** **Committee on Durability of Concrete**
Jan Olek, chair; Monday, 7:30 p.m.-10:00 p.m., Marriott, Hall B6
- A2E03** **Committee on Properties of Concrete**
Edward G. Nawy, chair; Tuesday, 8:00 a.m.-12:00 p.m., Marriott, Hall B6
- A2E05** **Committee on Concrete Materials and Placement Techniques**
Donald A. Streeter, chair; Monday, 1:30 p.m.-5:30 p.m., Marriott, Hall B5
- A2E06** **Committee on Basic Research and Emerging Technologies Related to Concrete**
Jamshid M. Armaghani, chair; Tuesday, 7:30 p.m.-10:00 p.m., Marriott, Hall B6

Committee Meetings

Section F - Construction

- A2F00 Section on Construction**
Cliff J. Schexnayder, chair; Wednesday, 6:00 p.m.-9:30 p.m., (Members Only), Marriott, Johnson
- A2F01 Committee on Portland Cement Concrete Pavement Construction**
James D. Grove, chair; Tuesday, 1:30 p.m.-5:30 p.m., Marriott, Balcony B
- A2F02 Committee on Flexible Pavement Construction and Rehabilitation**
E. Ray Brown, chair; Tuesday, 7:30 p.m.-10:00 p.m., Marriott, Hall B5
- A2F03 Committee on Management of Quality Assurance**
Ronald J. Cominsky, chair; Wednesday, 2:30 p.m.-6:00 p.m., Marriott, Balcony B
- A2F04 Committee on Construction of Bridges and Structures**
Ralph D. Csogi, chair; Monday, 7:30 p.m.-10:00 p.m., Marriott, Balcony C
- A2F05 Committee on Construction Management**
Steven D. DeWitt, chair; Tuesday, 8:00 a.m.-12:00 p.m., Marriott, Balcony B
- A2F06 Committee on Construction Equipment**
Thomas B. Nelson, chair; Wednesday, 8:00 a.m.-12:00 p.m., Marriott, McKinley
- A2F07 Committee on Fabrication and Inspection of Metal Structures**
Ronald D. Medlock, chair; Wednesday, 8:00 a.m.-12:00 p.m., Marriott, Balcony B
- A2F08 Committee on Disadvantaged Business Enterprises (DBE)**
Sherry Morian, chair; Monday, 1:30 p.m.-5:30 p.m., Marriott, McKinley
- A2F09 Committee on Applications of Emerging Technology**
Carl Haas, chair; Wednesday, 8:00 a.m.-12:00 p.m., Predicting Fatigue Life of Rails Using Measured and 3D Finite Element Simulated Strain Histories (02-3876)
Mohammad Obadat, Hosin David Lee and M. Asghar Bhatti, University of Iowa, Marriott, Coolidge

Section J - Geomaterials

- A2J00 Section on Geomaterials**
Stephen W. Forster, chair; Tuesday, 12:00 p.m.-3:15 p.m., (Members Only), Marriott, Truman
- A2J01 Committee on Cementitious Stabilization**
Roger K. Seals, chair; Tuesday, 8:00 a.m.-12:00 p.m., Marriott, Hoover
- A2J02 Committee on Chemical and Mechanical Stabilization**
John B. Metcalf, chair; Monday, 8:00 a.m.-12:00 p.m., Marriott, Coolidge
- A2J03 Committee on Mineral Aggregates**
D. Stephen Lane, chair; Monday, 1:30 p.m.-5:30 p.m., Marriott, Hall B2

Section K - Soil Mechanics

- A2K00 Section on Soil Mechanics**
L. David Suits, chair; Wednesday, 6:00 p.m.-9:30 p.m., (Members Only), Marriott, Truman
- A2K01 Committee on Soils and Rock Instrumentation**
Thomas C. Sheahan, chair; Wednesday, 8:00 a.m.-12:00 p.m., Marriott, Hoover
- A2K02 Committee on Transportation Earthworks**
Kevin G. Sutterer, chair; Wednesday, 2:30 p.m.-6:00 p.m., Marriott, Coolidge
- A2K03 Committee on Foundations of Bridges and Other Structures**
Christopher E. Dumas, chair; Monday, 7:30 p.m.-10:00 p.m., Marriott, Balcony B
- A2K04 Committee on Subsurface Soil-Structure Interaction**
James B. Goddard, chair; Wednesday, 2:30 p.m.-6:00 p.m., Marriott, Hall B5

Committee Meetings

- A2K05** **Committee on Modeling Techniques in Geomechanics**
Glen E. Miller, chair; Monday, 1:30 p.m.-5:30 p.m., Marriott, Balcony C
- A2K05(2)** **Subcommittee on Reliability in Geotechnical and Pavement Engineering**
Maureen A. Kestler, chair; Monday, 8:00 a.m.-9:45 a.m., Marriott, Hoover
- A2K05(3)** **Subcommittee on Neural Nets and Other Computational Intelligence-Based Modeling Systems**
Yacoub M. Najjar, chair; Monday, 10:15 a.m.-12:00 p.m., Marriott, Hoover
- A2K06** **Committee on Subsurface Drainage**
John S. Baldwin, chair; Monday, 8:00 a.m.-12:00 p.m., Marriott, Hall B2
- A2K07** **Committee on Geosynthetics**
Karen S. Henry, chair; Tuesday, 1:30 p.m.-5:30 p.m., Marriott, Hoover
- A2K07(2)** **Subcommittee on Geosynthetics in Flexible Pavement Systems**
Imad L. Al-Qadi, chair; Sunday, 7:30 p.m.-10:00 p.m., Marriott, Coolidge

Section L - Geology and Properties of Earth Materials

- A2L00** **Section on Geology and Properties of Earth Materials**
Mehmet T. Tumay, chair; Tuesday, 5:30 p.m.-9:30 p.m., (Members Only), Marriott, Truman
- A2L01** **Committee on Exploration and Classification of Earth Materials**
Jeffrey R. Keaton, chair; Monday, 7:30 p.m.-10:00 p.m., Marriott, Hoover
- A2L02** **Committee on Soil and Rock Properties**
Sunil Sharma, chair; Tuesday, 8:00 a.m.-12:00 p.m., Marriott, Coolidge
- A2L03** **Committee on Physicochemical Phenomena in Soils**
Mohammed A. Gabr, chair; Tuesday, 8:00 a.m.-12:00 p.m., Marriott, McKinley
- A2L04** **Committee on Frost Action**
Maureen A. Kestler, chair; Monday, 1:30 p.m.-5:30 p.m., Marriott, Coolidge
- A2L05** **Committee on Engineering Geology**
John D. Duffy, chair; Monday, 1:30 p.m.-5:30 p.m., Marriott, Hoover
- A2L05(1)** **Subcommittee on Rockfall Management**
Michael P. Vierling, chair; Sunday, 7:30 p.m.-10:00 p.m., Marriott, Hoover
- A2L05(2)** **Subcommittee on Scour Research**
Jeffrey R. Keaton, chair; Monday, 10:15 a.m.-12:00 p.m., Marriott, McKinley
- A2L06** **Committee on Engineering Behavior of Unsaturated Soils**
James B. Nevels Jr, chair; Monday, 8:00 a.m.-9:45 a.m., Marriott, McKinley

Section M - Railway Systems

- A2M00** **Section on Railway Systems**
Christopher P. L. Barkan, chair; Monday, 12:00 p.m.-1:30 p.m., Luncheon Meeting for Section M Committee Chairs only. (Members Only), Marriott, Truman
- A2M01** **Committee on Railroad Track Structure System Design**
Semih F. Kalay, chair; Tuesday, 1:30 p.m.-3:15 p.m., Marriott, McKinley
- A2M02** **Committee on Electrification and Train Control Systems for Guided Ground Transportation Systems**
Paul K. Stangas, chair; Wednesday, 2:30 p.m.-6:00 p.m., A Model for Train Connecting Service and Routing Plan in a Large Scale Rail Network (02-2730), Boliang Lin, Northern Jiaotong University, People's Republic of China, Ardeshir Faghri, University of Delaware, Zhikan Jiang, Khaled Hamad
- Risk Analysis of Finnish Railways (02-3419), Veli-Pekka Kallberg, Kaarin Ruuhilehto, Kirsi E Pajunen, Matti Anila and Jouni Hytonen, VTT Building and Transport, Finland, Petteri Katajisto, Marriott, McKinley

Committee Meetings

- A2M03** **Committee on Intermodal Freight Terminal Design and Operations**
Arthur B. Goodwin, chair; Wednesday, 7:30 p.m.-9:30 p.m., Shoreham, Governors
- A2M04** **Committee on Rail Transit System Design**
Earle M. Hughes, chair; Wednesday, 7:30 p.m.-9:30 p.m., Marriott, McKinley
- A2M05** **Committee on Guided Intercity Passenger Transportation**
Robert M. Dorer, chair; Tuesday, 7:30 p.m.-9:30 p.m., Marriott, Balcony B
- A2M05(1)** **Subcommittee on Environmental Issues Related to Guided Intercity Passenger Transportation**
Marilyn D. Duffey, chair; Tuesday, 12:00 p.m.-1:30 p.m., Marriott, Park Tower Suite 8226
- A2M05(2)** **Subcommittee on Safety Issues Related to High-Speed and Super-Speed Guided Intercity Passenger Transportation**
Larry D. Kelterborn, chair; Tuesday, 12:00 p.m.-1:30 p.m., Marriott, Park Tower Suite 8228
- A2M05(3)** **Subcommittee on Design and Construction Issues Related to Guided Intercity Passenger Transportation**
Mohammad A. El-Shrafi, chair; Tuesday, 5:30 p.m.-7:00 p.m., Marriott, Park Tower Suite 8226
- A2M05(4)** **Subcommittee on Operations and Maintenance Issues Related to Guided Intercity Passenger Transportation**
Alan J. Bing, chair; Tuesday, 5:30 p.m.-7:00 p.m., Marriott, Park Tower Suite 8228
- A2M06** **Committee on Railway Maintenance**
Willem Ebersohn, chair; Tuesday, 7:30 p.m.-9:30 p.m., Marriott, McKinley
- A2T71** **Task Force on Design Build**
Thomas R. Warne, chair; Tuesday, 1:30 p.m.-5:30 p.m., Marriott, Nathan Hale

Group 3 - Operation, Safety, and Maintenance of Transportation Facilities

- A3000** **Group 3 Council, Operation, Safety, and Maintenance of Transportation Facilities**
Jonathan E. Upchurch, chair; Sunday, 5:30 p.m.-7:00 p.m., Reception for Group 3 Council Members, Section and Committee Chairs (Members Only), Marriott, Medici; Sunday, 7:15 p.m.-9:00 p.m., New Chair Orientation for in-coming Group 3 Chairs (Members Only), Marriott, Embassy; Wednesday, 6:30 a.m.-9:00 a.m., Breakfast and Business Meeting (Members Only), Marriott, Embassy

Section A - Facilities and Operations

- A3A00** **Section on Facilities and Operations**
Daniel S. Turner, chair; Monday, 12:00 p.m.-1:30 p.m., Committee Chairs of Group 3, Section A (Members Only), Marriott, Park Tower Suite 8228
- A3A01** **Committee on Communications**
Dennis L. Foderberg, chair; Monday, 7:30 p.m.-9:30 p.m., Marriott, Coolidge
- A3A02** **Committee on Traffic Control Devices**
H. Gene Hawkins Jr., chair; Tuesday, 8:00 a.m.-9:45 a.m., Marriott, Hall B3
- A3A03** **Committee on Transportation System Management**
Gary R. Erenrich, chair; Tuesday, 10:15 a.m.-12:00 p.m., Marriott, Hall B3
- A3A04** **Committee on Visibility**
Frank Schieber, chair; Tuesday, 7:30 p.m.-9:30 p.m., Marriott, Hall B2
- A3A05** **Committee on Railroad-Highway Grade Crossings**
Richard A. Mather, chair; Wednesday, 8:00 a.m.-12:00 p.m., Marriott, Wilson
- A3A06** **Committee on High-Occupancy Vehicle Systems**
David Schumacher, chair; Monday, 8:00 a.m.-12:00 p.m., Marriott, Hall B3

Committee Meetings

- A3A08** **Committee on Operational Effects of Geometrics**
Douglas W. Harwood, chair; Tuesday, 1:30 p.m.-5:30 p.m., Marriott, Balcony D
- A3A09** **Committee on Freeway Operations**
Peter M. Briglia Jr., chair; Tuesday, 8:00 a.m.-12:00 p.m., Marriott, Wilson; Tuesday, 7:30 p.m.-9:30 p.m., Marriott, Wilson
- A3A10** **Committee on Highway Capacity and Quality of Service**
Richard G. Dowling, chair; Saturday, 1:00 p.m.-5:00 p.m., Subcommittee Meetings, Marriott, Harding; Saturday, 1:00 p.m.-5:00 p.m., Subcommittee Meetings, Marriott, Coolidge; Saturday, 1:00 p.m.-5:00 p.m., Subcommittee Meetings, Marriott, Hoover; Saturday, 7:00 p.m.-9:00 p.m., Subcommittee Meetings, Marriott, Harding; Saturday, 7:00 p.m.-9:00 p.m., Marriott, Hoover; Saturday, 7:00 p.m.-9:00 p.m., Subcommittee Meetings, Marriott, Coolidge; Sunday, 8:00 a.m.-5:00 p.m., Subcommittee Meetings, Marriott, Hall B2; Sunday, 8:00 a.m.-5:00 p.m., Subcommittee Meetings, Marriott, Hall B5; Sunday, 8:00 a.m.-5:00 p.m., Subcommittee Meetings, Marriott, Hall B6; Monday, 8:00 a.m.-12:00 p.m., Full Committee Meeting, Marriott, Wilson
- A3A11** **Committee on Traffic Flow Theory and Characteristics**
Nathan H. Gartner, chair; Wednesday, 2:30 p.m.-6:00 p.m., Marriott, Hall B3
- A3A18** **Committee on Traffic Signal Systems**
Thomas Urbanik II, chair; Monday, 1:30 p.m.-5:30 p.m., Marriott, Hall B1
- A3A19** **Committee on Vehicle-Highway Automation**
Rodney K. Lay, chair; Tuesday, 1:30 p.m.-5:30 p.m., Hilton, Hemisphere

Section B - Users and Vehicles

- A3B00** **Section on Users and Vehicles**
Barry M. Sweedler, chair; Monday, 12:00 p.m.-1:30 p.m., (Members Only), Marriott, Roosevelt
- A3B01** **Committee on Transportation Safety Management**
Leanna Depue, chair; Tuesday, 1:30 p.m.-5:30 p.m., Marriott, Hall B6
- A3B01(1)** **Subcommittee on Safety Audits**
Sany R. Zein, chair; Tuesday, 7:30 p.m.-9:30 p.m., Marriott, Harding
- A3B01(2)** **Subcommittee on Safety Management Systems**
John J. Zogby, chair; Wednesday, 2:30 p.m.-4:00 p.m., Marriott, Harding
- A3B01(3)** **Subcommittee on Safety in Planning**
Kathleen F. Hoffman, chair; Tuesday, 5:30 p.m.-7:30 p.m., Marriott, Congressional
- A3B01(4)** **Subcommittee on Emergency Evacuation**
Brian Wolshon, chair; Monday, 7:30 p.m.-10:30 p.m., Marriott, Harding
- A3B02** **Committee on Vehicle User Characteristics**
Thomas A. Ranney, chair; Monday, 1:30 p.m.-5:30 p.m., Marriott, Hall B6
- A3B02(1)** **Subcommittee on Railroad Operational Safety**
Donald Sussman, chair; Tuesday, 8:00 a.m.-12:00 p.m., Marriott, Park Tower Suite 8206
- A3B02(2)** **Subcommittee on International Human Factors Road Design Guide**
Richard van der Horst and Samuel C. Tignor, co-chairs; Monday, 5:30 p.m.-7:15 p.m., Marriott, Roosevelt
- A3B03** **Committee on Operator Education and Regulation**
Daniel R. Mayhew, chair; Wednesday, 8:00 a.m.-12:00 p.m., Marriott, Virginia C
- A3B04** **Committee on Pedestrians**
Ann M. Hershfang, chair; Monday, 1:30 p.m.-5:30 p.m., Marriott, Wilson
- A3B05** **Committee on Safety Data, Analysis, and Evaluation**
Jeffrey F. Paniati and Warren E. Hughes, co-chairs; Tuesday, 1:30 p.m.-5:30 p.m., Marriott, Hall B1

Committee Meetings

- A3B05(1) Joint Subcommittee on the Highway Safety Manual**
Ronald C. Pfefer, chair; Wednesday, 2:30 p.m.-6:00 p.m., Marriott, Hall B2
- A3B05(2) Subcommittee on Animals and Vehicles**
Pat McGowen, chair; Monday, 8:00 a.m.-9:45 a.m., Marriott, Roosevelt
- A3B06 Committee on Simulation and Measurement of Vehicle and Operator Performance**
Ronald R. Mourant, chair; Tuesday, 1:30 p.m.-5:30 p.m., Marriott, Hall B2
- A3B07 Committee on Bicycling**
Andrew Clarke, chair; Tuesday, 8:00 a.m.-12:00 p.m., Hilton, Hemisphere
- A3B07(1) Subcommittee on Education and Awareness**
Andrew Clarke, chair; Tuesday, 7:30 p.m.-9:30 p.m., Hilton, Hamilton
- A3B07(2) Subcommittee on Bicycle Traffic Engineering**
Andrew Clarke, chair; Wednesday, 8:00 a.m.-9:45 a.m., Hilton, Jackson
- A3B07(3) Subcommittee on Safety Data and Measurement**
Andrew Clarke, chair; Wednesday, 10:15 a.m.-12:00 p.m., Hilton, Jackson
- A3B07(4) Subcommittee on Planning for Bicycles**
Andrew Clarke, chair; Wednesday, 2:30 p.m.-4:00 p.m., Hilton, Grant
- A3B08 Committee on User Information Systems**
Philip M. Garvey, chair; Monday, 8:00 a.m.-12:00 p.m., Marriott, Hall B1
- A3B08(1) Subcommittee on Visualization in Transportation**
Michael A. Manore, chair; Tuesday, 12:00 p.m.-3:15 p.m., (Members Only), Marriott, Roosevelt
- A3B08(2) Subcommittee on Advanced Traveler Information Systems**
Asad J. Khattak and C. Y. David Yang, co-chairs; Tuesday, 7:30 p.m.-9:30 p.m., Joint meeting with ITS-A ATIS Committee, Marriott, Hall B1
- A3B09 Committee on Traffic Law Enforcement**
Charles Peltier, chair; Tuesday, 8:00 a.m.-12:00 p.m., Marriott, Harding
- A3B10 Committee on Alcohol, Other Drugs, and Transportation**
Allan F. Williams, chair; Monday, 8:00 a.m.-12:00 p.m., Marriott, Balcony C
- A3B13 Committee on Safe Mobility of Older Persons**
Donald Sussman, David Skinner, Jon E. Burkhardt, Richard A. Marottoli, Rosemary G. Mathias, and S. Ling Suen, co-chairs; Sunday, 1:30 p.m.-4:00 p.m., (Members Only), Hilton, State; Monday, 7:30 p.m.-10:30 p.m., Marriott, Balcony D; Wednesday, 8:00 a.m.-12:00 p.m., This is a meeting to discuss the topic: Relationship Between Driving Cessation and Health in Older Adults, Marriott, Park Tower Suite 8222
- A3B13(1) Subcommittee on Medical Factors**
Robert Raleigh, chair; Tuesday, 8:00 a.m.-9:45 a.m., Marriott, Park Tower Suite 8226
- A3B13(2) Subcommittee on Alternative Transportation**
Katherine Freund, chair; Tuesday, 10:15 a.m.-12:00 p.m., Marriott, Park Tower Suite 8226
- A3B13(3) Subcommittee on Research**
John W. Eberhard, chair; Tuesday, 1:30 p.m.-3:15 p.m., Marriott, Park Tower Suite 8226
- A3B13(4) Subcommittee on Vision and Cognition**
Richard A. Marottoli, chair; Tuesday, 3:45 p.m.-5:30 p.m., Marriott, Park Tower Suite 8226
- A3B13(5) Subcommittee on Vehicle and Environmental Factors**
Jeffrey A. Pike, chair; Tuesday, 8:00 a.m.-9:45 a.m., Marriott, Park Tower Suite 8228

Committee Meetings

- A3B13(6) Subcommittee on Public Information**
Kent Milton, chair; Tuesday, 10:15 a.m.-12:00 p.m., Marriott, Park Tower Suite 8228
- A3B13(7) Subcommittee on Older Driver Programs**
Loren Staplin, chair; Tuesday, 7:30 p.m.-9:30 p.m., The agenda will be a series of technical presentations reporting on the recently completed NHTSA Model Driver Screening and Evaluation Program: Maryland Pilot Study. The focus is on older driver safety and mobility. , Shoreham, Diplomat
- A3B13(8) Subcommittee on Older Driver Policy**
Leo Tasca, chair; Tuesday, 3:45 p.m.-5:30 p.m., Marriott, Park Tower Suite 8228
- A3B14 Committee on Motorcycles and Mopeds**
David Thom, chair; Monday, 7:30 p.m.-10:30 p.m., Marriott, Hall B2
- A3B57 Task Force on Truck and Bus Safety**
Mark Lee Edwards, chair; Tuesday, 8:00 a.m.-12:00 p.m., Marriott, Hall B1
- Section C - Maintenance
- A3C00 Section on Maintenance**
Leland D. Smithson, chair; Monday, 12:00 p.m.-1:30 p.m., Marriott, Eisenhower
- A3C01 Committee on Maintenance and Operations Management**
John F. Conrad, chair; Tuesday, 7:30 p.m.-9:30 p.m., Marriott, Balcony D
- A3C01(1) Subcommittee on Environmental Maintenance**
William A. Hyman, chair; Wednesday, 8:00 a.m.-12:00 p.m., Marriott, Hall B1
- A3C03 Committee on Maintenance and Operations Personnel**
Andrew V. Bailey II, chair; Wednesday, 8:00 a.m.-12:00 p.m., Marriott, Hall B3
- A3C04 Committee on Traffic Safety in Maintenance and Construction Operations**
James E. Bryden, chair; Wednesday, 2:30 p.m.-6:00 p.m., Marriott, Wilson
- A3C05 Committee on Pavement Maintenance**
James S. Moulthrop, chair; Monday, 1:30 p.m.-5:30 p.m., Marriott, Balcony D
- A3C06 Committee on Structures Maintenance**
Ronald L. Purvis, chair; Tuesday, 8:00 a.m.-12:00 p.m., Marriott, Nathan Hale
- A3C06(1) Subcommittee on Underwater Structures Inspection and Maintenance**
Thomas J. Collins, chair; Monday, 8:00 a.m.-12:00 p.m., Marriott, Harding
- A3C06(2) Subcommittee on Bridge Steel Coatings**
Paul Forte, chair; Monday, 1:30 p.m.-5:30 p.m., Marriott, Harding
- A3C07 Committee on Roadside Maintenance**
Joseph S. Demko, chair; Tuesday, 1:30 p.m.-5:30 p.m., Marriott, Hall B3
- A3C08 Committee on Maintenance Equipment**
Glenn R. Hagler, chair; Tuesday, 8:00 a.m.-12:00 p.m., Marriott, Park Tower Suite 8222
- A3C09 Committee on Winter Maintenance**
Wilfrid A. Nixon, chair; Monday, 7:30 p.m.-9:30 p.m., Marriott, Wilson

Committee Meetings

- A3C12** **Committee on Signing and Marking Materials**
James S. Kalchbrenner, chair; Wednesday, 8:00 a.m.-12:00 p.m., Methods of Application and Bonding Strengths of Thermoplastic Pavement Markings: A Comparison Between Concrete and Asphalt Roadway Surfaces (02-3670), Irtishad Ahmad and Michael Sadeghinia, Florida International University; Fazil T. Najafi, University of Florida; Joyline Benham and Philip Lancaster, Florida Department of Transportation
- Determining the Effectiveness of Pavement Marking Materials (02-2327), Benjamin H. Cottrell, Jr. and Robert A. Hanson, Virginia Transportation Research Council, Marriott, Balcony D
- A3C13** **Committee on Sealants and Fillers for Joints and Cracks**
Imad L. Al-Qadi, chair; Tuesday, 8:00 a.m.-12:00 p.m., Marriott, Balcony D
- A3C14** **Committee on Polymer Concretes, Adhesives, and Sealers**
David W. Fowler, chair; Wednesday, 2:30 p.m.-6:00 p.m., Marriott, Balcony D
- A3C15** **Committee on Corrosion**
John Philip Broomfield, chair; Monday, 8:00 a.m.-12:00 p.m., Marriott, Balcony D
- A3C17** **Committee on Bridge Management Systems**
Arunprakash M. Shirole, chair; Wednesday, 2:30 p.m.-6:00 p.m., Marriott, Nathan Hale

- A3T68** **Task Force on Planning for Operations**
Wayne Berman, chair; Tuesday, 8:00 a.m.-9:45 a.m., Hilton, Hamilton

Group 4 - Legal Resources

- A4000** **Group 4 Council, Legal Resources**
Bruce M. Smith, chair; Tuesday, 7:30 p.m.-9:30 p.m., Marriott, Johnson
- A4001** **Committee on Eminent Domain and Land Use**
Frederick H. Schranck, chair; Monday, 1:30 p.m.-3:15 p.m., Marriott, Johnson
- A4002** **Committee on Tort Liability and Risk Management**
Brelend C. Gowan, chair; Tuesday, 3:45 p.m.-5:30 p.m., Marriott, Embassy
- A4003** **Committee on Emerging Technology Law**
Leslie Spencer Fowler, chair; Monday, 8:00 a.m.-9:45 a.m., Marriott, Johnson
- A4004** **Committee on Transportation Law**
Richard W. Bower, chair; Monday, 10:15 a.m.-12:00 p.m., Marriott, Johnson
- A4005** **Committee on Contract Law**
Eric M. Kerness, chair; Tuesday, 8:00 a.m.-9:45 a.m., Marriott, Johnson
- A4006** **Committee on Environmental Issues in Transportation Law**
Helen H. Mountford, chair; Tuesday, 1:30 p.m.-3:15 p.m., Marriott, Kennedy
- A4007** **Committee on Transit and Intermodal Transportation Law**
Shelly R. Brown, chair; Tuesday, 10:15 a.m.-12:00 p.m., Marriott, Johnson

Group 5 - Intergroup Resources and Issues

- A5000** **Group 5 Council, Intergroup Resources and Issues**
Kumares C. Sinha, chair; Thursday, 7:00 a.m.-12:00 p.m., Hilton, Georgetown East
- A5001** **Committee on Conduct of Research**
William P. Carr, chair; Wednesday, 8:00 a.m.-12:00 p.m., Hilton, Caucus

Committee Meetings

- A5002** **Committee on Low-Volume Roads**
Anthony R. Giancola, chair; Tuesday, 1:30 p.m.-5:30 p.m., Marriott, Coolidge
- A5003** **Committee on Information Systems and Technology**
Jeffrey L. Western, chair; Wednesday, 2:30 p.m.-6:00 p.m., Hilton, Hemisphere
- A5005** **Committee on International Activities**
Merritt Linzie, chair; Tuesday, 1:30 p.m.-5:30 p.m., Hilton, Caucus
- A5006** **Committee on International Trade and Transportation**
Joedy W. Cambridge, chair; Tuesday, 7:30 p.m.-9:30 p.m., Western Hemisphere Transportation Initiative: Port Damage Assessment Project in Response to Hurricane Mitch (P02-6343), Carl Sobremisan, Francis Mardula and Robert Gorman, Maritime Administration, Maritime Administration and Federal Highway Administration, Shoreham, Calvert
- A5008** **Committee on Artificial Intelligence**
Gary S. Spring, chair; Monday, 8:00 a.m.-12:00 p.m., Hilton, Conservatory
- A5009** **Committee on Intelligent Transportation Systems**
Richard J. Weiland, chair; Monday, 8:00 a.m.-12:00 p.m., (Members Only), Hilton, Bancroft; Wednesday, 7:30 p.m.-9:30 p.m., Hilton, Jefferson West
- A5010** **Committee on Transportation Demand Management**
Philip L. Winters, chair; Monday, 3:45 p.m.-5:30 p.m., Hilton, Hamilton
- A5011** **Committee on Statistical Methodology and Statistical Computer Software in Transportation Research**
Michael S. Griffith, chair; Monday, 1:30 p.m.-5:30 p.m., Marriott, Hall B3
- A5012** **Committee on Technology Transfer**
Cheri F. Marti, chair; Wednesday, 2:30 p.m.-6:00 p.m., Paper #02-4022 entitled "A Mechanism to Facilitate Research and Technology Transfer in New York State" will be presented by Dr. Ossama Elrahman, Hilton, Caucus
- A5013** **Committee on Nonmotorized Transport and Related Issues in Developing Countries**
V. Setty Pendakur, chair; Wednesday, 2:30 p.m.-6:00 p.m., Hilton, Jackson
- A5014** **Committee on Transportation Issues in Major U.S. Cities**
Elliot G. Sander, chair; Monday, 1:30 p.m.-5:30 p.m., Experience of the Analysis of Transportation Flows, (02-2113) Howard J. Mann and Alexander Y. Werner, New York Metropolitan Transportation Council, Hilton, Hemisphere
- A5015** **Committee on Spatial Data and Information Systems**
David R. Fletcher and Kathleen L. Hancock, co-chairs; Tuesday, 12:00 p.m.-1:30 p.m., Committee Meeting Lunch (Members Only), Hilton, Independence; Tuesday, 7:30 p.m.-9:30 p.m., Hilton, Georgetown West
- A5015(1)** **Subcommittee on Data Integration**
Bobby R. Harris and Daniel K. Papiernik, co-chairs; Monday, 12:00 p.m.-1:30 p.m., Hilton, Kalorama
- A5015(2)** **Subcommittee on Spatial Data and Science Education**
Wayne A. Sarasua, chair; Monday, 10:15 a.m.-12:00 p.m., Hilton, Kalorama
- A5016** **Committee on National Transportation Data Requirements and Programs**
Alan E. Pisarski, chair; Wednesday, 7:00 a.m.-9:45 a.m., Hilton, Independence
- A5017** **Committee on Library and Information Science for Transportation**
Jeanne F. Thomas, chair; Monday, 8:00 a.m.-12:00 p.m., Hilton, Caucus
- A5018** **Committee on Transportation History**
Alan E. Pisarski, chair; Tuesday, 8:00 a.m.-12:00 p.m., Paper 02-2940 entitled "A Brief History of the 20th Century American Parking Garage" will be presented by Shannon McDonald, Hilton, Caucus
- A5019** **Committee on Women's Issues in Transportation**
Gloria Jeff, chair; Monday, 8:00 a.m.-12:00 p.m., Shoreham, Executive
- A5020** **Committee on Native American Transportation Issue**
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- A5T55** **Task Force on Transportation Needs for National Parks and Public Lands**
Eugene M. Wilson and Ronald W. Eck, co-chairs; Wednesday, 8:00 a.m.-12:00 p.m., Transit Planning Process for a Potential Visitor Transportation System in the Cades Cove Area of Great Smoky Mountains National Park, (02-3510) Brett Wallace, Wilbur Smith Associates; Jeff Welch, Knoxville Urban Area Metropolitan Planning Organization; Teresa Cantrell, U.S. National Park Service
Traveler Information En Route Needs and Available Services for Visitors to National Parks, (02-3996) Jaime Leigh Helmuth, Texas Transportation Institute, Hilton, Hamilton
- A5T56** **Task Force on Critical Transportation Infrastructure Security**
Lewis Roach, chair; Monday, 7:00 a.m.-10:15 a.m., Shoreham, Robert's Room
- A5T57** **Task Force on Transportation and Sustainability**
Kevin E. Heanue, chair; Monday, 2:00 p.m.-5:00 p.m., Hilton, Conservatory
- A5T57(1)** **Subcommittee on Sustainable Transportation Evaluation and Indicators**
Guillaume Shearin, chair; Wednesday, 12:00 p.m.-2:00 p.m., Hilton, Hamilton
- A5T69** **Task Force on Trucking Industry Research**
Michael H. Belzer, chair; Wednesday, 2:30 p.m.-6:00 p.m., Shoreham, Calvert

TRB Information Services Committee

- B0002** **TRB Information Services Committee**
Roberto Sarmiento, chair; Wednesday, 2:30 p.m.-6:00 p.m., Marriott, Hall B1

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