

TRB TRUCKING RELATED PUBLICATIONS AND PROJECTS, 2008

Publications

[Freight Demand Modeling: Tools for Public-Sector Decision Making](#)

TRB Conference Proceedings 40, Freight Demand Modeling: Tools for Public-Sector Decision Making, summarizes a September 25–27, 2006, conference held in Washington, D.C. that focused on freight modeling methodologies, applications of existing models, and related data needed to support modeling efforts. The proceedings also includes five papers prepared in connection with the conference.

[Commercial Fleet and Transit Network Modeling 2007](#)

TRB's Transportation Research Record: Journal of the Transportation Research Board, No. 2032 seven papers that examine modeling competitive strategy choice and cognitive learning dynamics, multiproduct intermodal freight transportation analysis, less-than-truckload trucking operations, passenger pretrip planning in multimodal networks, impact of restricting trucker rest facilities on operational productivity, integrated forward and reverse logistics network design for third-party logistics providers, and the vehicle routing problem.

[Forecasting Statewide Freight Toolkit](#)

TRB's National Cooperative Highway Research Program (NCHRP) Report 606: Forecasting Statewide Freight Toolkit explores an analytical framework for forecasting freight movements at the state level.

[The Potential Impacts of Climate Change on U.S. Transportation](#)

TRB and the Division on Earth and Life Studies (DELS) have released the pre-publication version of TRB Special Report 290, The Potential Impacts of Climate Change on U.S. Transportation, which explores the consequences of climate change for U.S. transportation infrastructure and operations. The report provides an overview of the scientific consensus on the current and future climate changes of particular relevance to U.S. transportation, including the limits of present scientific understanding as to their precise timing, magnitude, and geographic location; identifies potential impacts on U.S. transportation and adaptation options; and offers recommendations for both research and actions that can be taken to prepare for climate change. The report also summarizes previous work on strategies for reducing transportation-related emissions of carbon dioxide—the primary greenhouse gas—that contribute to climate change. [Five commissioned papers](#) used by the committee to help develop the report, [a summary of the report](#), and a [National Academies press release](#) associated with the report are available online. DELS, like TRB, is a division of the National Academies, which include the National Academy of Sciences, National Academy of Engineering, Institute of Medicine, and National Research Council.

Strategic Highway Research Program 2 Quarterly Report: January 2008

TRB's second Strategic Highway Research Program (SHRP 2) has released the latest issue of its quarterly newsletter designed to keep stakeholders up to date on activities taking place within the SHRP 2 program. This issue covers SHRP 2's January symposium on research to improve techniques for nondestructive testing of transportation infrastructure. The newsletter also includes general program news, an update on the program's international activities, and information on the process for recommending to Congress the strategies and administrative structure that may be used in implementing the results of SHRP 2.

http://www.trb.org/news/blurb_detail.asp?id=8713

Freight Systems

TRB's Transportation Research Record: Journal of the Transportation Research Board, No. 2008 includes 13 papers that explore electronic freight theft management system, estimating freight volume shift in an international intermodal corridor, product recovery network design, multiproduct distribution network design, delivery consolidation in urban areas, and estimating truck trip origin-destination. This issue of the TRR also examines single allocation hub network design, integrated origin-destination synthesis model for freight, shipper preferences suggest strong mistrust of rail, rail freight as a means of reducing roadway congestion, dedicated truck facilities, spring highway load restrictions effect on freight flow, and impact of wide-base tires.

http://www.trb.org/news/blurb_detail.asp?id=8561

Guidebook for Integrating Freight into Transportation Planning and Project Selection Processes

http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_594.pdf TRB's National Cooperative Highway Research Program (NCHRP) Report 594: Guidebook for Integrating Freight into Transportation Planning and Project Selection Processes explores a framework for incorporating freight needs for all modes into transportation planning and priority programming by state, regional, metropolitan, local, and special transportation agencies. The report covers technical issues, organizational suggestions, and communication requirements of freight planning and programming. A project final report that describes the case studies used to help develop the guidebook and other resources used in the guidebook is available as [NCHRP Web-Only Document 112](#).

Commercial Truck and Bus Safety Synthesis Program: A Status Report

TRB's Commercial Truck and Bus Safety Synthesis Program (CTBSSP) Research Results Digest 6: A Status Report describes the progress and status of the Commercial Truck and Bus Safety Synthesis Program (CTBSSP). CTBSSP is a cooperative research program sponsored by the Federal Motor Carrier Safety Administration (FMCSA) and administered by the Transportation Research Board. The program was authorized in late 2001 and began in 2002 in support of the FMCSA's safety research programs. http://www.trb.org/news/blurb_detail.asp?id=8635

Health and Wellness Programs for Commercial Drivers

TRB's Commercial Truck and Bus Safety Synthesis Program (CTBSSP) Synthesis 15: Health and Wellness Programs for Commercial Drivers explores health risks facing commercial truck and motorcoach drivers. The report examines the association between crash causation and functional impairments, elements of employee health and wellness programs that could be applied to commercial drivers, and existing trucking and motor coach employee health and wellness programs. In addition, the report includes several case studies on employee health and wellness programs in the truck and motorbus industries, focusing on the elements that appear to work effectively. http://www.trb.org/news/blurb_detail.asp?ID=7920

The Role of Safety Culture in Preventing Commercial Motor Vehicle Crashes

TRB's Commercial Truck and Bus Safety Synthesis Program (CTBSSP) Synthesis 14: The Role of Safety Culture in Preventing Commercial Motor Vehicle Crashes explores practices on developing and enhancing a culture of safety among commercial motor vehicle drivers. The report also examines suggested steps for increasing a safety culture through a series of best practices. http://www.trb.org/news/blurb_detail.asp?ID=7919

Upcoming Conferences

August 6-8, 2008

[North American Travel Monitoring Exposition and Conference \(NATMEC\)](#)

Washington, DC

Includes sessions on “Truck Data for Freight Planning,” “Who Is Using Our Weigh-in-Motion Data?” and trucking-related papers in the “NATMEC Poster Session”

September 22-23, 2008

[North American Freight Flows Conference: Understanding Changes and Improving Data Sources](#)

Irvine, California

January 11-15, 2009

[TRB 88th Annual Meeting](#)

Washington, DC

TRB Standing Committees

Motor Vehicle Size and Weight (AT055)

Website: [Motor Vehicle Size and Weight](#)

Scope: This committee is concerned with the issue of motor vehicle size and weight, and the problems associated with larger and heavier trucks. It is concerned with the social, economic and political factors related to motor vehicle size and weight; the interrelationships of larger loads with pavements, shoulders, structures, facility capacity, safety and the environment; and the effects of changing vehicle dimensions on carrier and highway economics, on other modes of freight transport, and on labor and management.

Chair, **Mark J. Berndt**, mberndt@wilbursmith.com

Trucking Industry Research (AT060)

Website: [Trucking Industry Research](#)

Scope: This committee is concerned with complementing relevant TRB freight committees by focusing on a broad range of issues related to the trucking industry that require a multi-disciplinary approach to research. The committee focuses its efforts on cross-cutting industry issues, such as business economics, truck operations, supply chain logistics, shipper/carrier/consignee issues, and labor market and human resource issues. The committee encourages cooperative efforts with other relevant TRB committees through outreach and education efforts to the trucking industry and to public-sector agency officials. The committee also focuses on the development of a balanced public-private approach to trucking research.

Chair, **Michael H. Belzer**, michael.h.belzer@wayne.edu

Truck and Bus Safety (ANB70)

Website: [Truck and Bus Safety](#)

Scope: This committee will focus on motor carrier safety in all its aspects. This will include research and evaluation in human, roadway, vehicle, operational, organizational, and regulatory arenas as they relate to motor carrier safety.

Chair, **Joel L. Ticatch**, Joel.Ticatch@telvent.abengoa.com

NCHRP Projects in Progress

NCHRP 08-56 Truck Noise-Source Mapping

<http://www.trb.org/TRBNet/ProjectDisplay.asp?ProjectID=932>

NCHRP 08-63 Review of Canadian Experience with Large Commercial Motor Vehicles

<http://www.trb.org/TRBNet/ProjectDisplay.asp?ProjectID=939>

NCHRP 03-73 Separation of Vehicles - CMV Only Lanes

<http://www.trb.org/TRBNet/ProjectDisplay.asp?ProjectID=827>

National Cooperative Freight Research Program

<http://www.trb.org/CRP/NCFRP/NCFRP.asp>

Project Number	Project Title	Stage	Comments
NCFRP 01	Review and Analysis of Freight Transportation Markets and Relationships	Active	A preliminary draft report is expected in Spring 2008.
NCFRP 02	Impacts of Public Policy on the Freight Transportation System	Active	
NCFRP 03	Performance Measures for Freight Transportation	Active	
NCFRP 04	Identifying and Using Low-Cost and Quickly Implementable Ways to Address Freight-System Mobility Constraints	Active	
NCFRP	Framework and Tools for Estimating Benefits	RFP	

05	of Specific Freight Network Investment Needs		
NCFRP 06	Freight-Demand Modeling to Support Public-Sector Decision Making	Active	
NCFRP 09	Institutional Arrangements in the Freight Transportation System	Active	
NCFRP 10	Separation of Vehicles---CMV Only Lanes	Active	
NCFRP 11	Identification and Evaluation of Freight Demand Factors	RFP	In development
NCFRP 12	Specifications for Freight Transportation Data Architecture	RFP	
NCFRP 13	Developing High Productivity Truck Corridors	Anticipated	In development
NCFRP 14	Truck Drayage Practices	Anticipated	In development
NCFRP 15	Understanding Urban Goods Movements	RFP	In development
NCFRP 16	Representing Freight in Air Quality and Greenhouse Gas Models	RFP	
NCFRP 17	North American Marine Highway Operations	RFP	In development

Hazardous Materials Cooperative Freight Research Program

Project Number	Project Title	Stage	Comments
HMCRP HM-01	Hazardous Materials Commodity Flow Data and Analysis	Active	
HMCRP HM-02	Hazardous Materials Transportation Incident Data for Root Cause Analysis	Active	
HMCRP HM-03	A Guide for Assessing Emergency Response Needs and Capabilities for Hazardous Materials Releases	Active	
HMCRP HM-04	Emerging Technologies Applicable to Hazardous Materials Transportation Safety and Security	Active	
HMCRP HM-05	Evaluation of the Use of Electronic Shipping Papers for Hazardous Materials Shipments	RFP	
HMCRP HM-06	Assessing Soil and Groundwater Environmental Hazards from Hazardous Materials Transportation Incidents	Anticipated	

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