



Research Digest

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In this Issue:
Transportation Research Board Reports

Table of Contents

Item 1. An Airport Guide for Regional Emergency Planning for CBRNE Events (<i>ACRP Report 12</i>)	1
Item 2. ACRP Annual Report of Progress 2008 (<i>ACRP Report of Progress 2008</i>)	1
Item 3. Current and Emerging Issues Facing the Airport Industry (<i>ACRP Research Results Digest 5</i>)	1
Item 4. Preventing Vehicle-Aircraft Incidents During Winter Operations and Periods of Low Visibility (<i>ACRP Synthesis 12</i>)	2
Item 5. Safety Impacts of Speed Limiter Device Installations on Commercial Trucks and Buses (<i>CTBSSP Synthesis 16</i>)	2
Item 6. Major Legal Issues for Highway Public-Private Partnerships (<i>NCHRP Legal Research Digest 51</i>) ...	2
Item 7. Self-Consolidating Concrete for Precast, Prestressed Concrete Bridge Elements (<i>NCHRP Report 628</i>)	3
Item 8. Ruggedness Testing of the Dynamic Modulus and Flow Number Tests with the Simple Performance Tester (<i>NCHRP Report 629</i>)	3
Item 9. Measuring Tire-Pavement Noise at the Source (<i>NCHRP Report 630</i>)	3
Item 10. Performance Measures for Snow and Ice Control Operations (<i>NCHRP Research Results Digest 335</i>).....	4
Item 11. Transportation's Role in Emergency Evacuation and Reentry (<i>NCHRP Synthesis 392</i>)	4
Item 12. Adjacent Precast Concrete Box Beam Bridges: Connection Details (<i>NCHRP Synthesis 393</i>)	4
Item 13. TCRP Annual Report of Progress 2008 (<i>TCRP Annual Report of Progress 2008</i>)	5
Item 14. Uses of Fees or Alternatives to Fund Transit (<i>TCRP Legal Research Digest 28</i>)	5
Item 15. Local and Regional Funding Mechanisms for Public Transportation (<i>TCRP Report 129</i>)	5
Item 16. Synthesis of Information Related to Transit Problems (<i>TCRP Research Results Digest 91</i>)	6
Item 17. Transit Systems in College and University Communities (<i>TCRP Synthesis 78</i>) ...	6
Item 18. Light Rail Vehicle Collisions with Vehicles at Signalized Intersections (<i>TCRP Synthesis 79</i>) ...	6
Item 19. Key Issues in Transportation Planning (<i>TRB Conference Proceedings 43</i>) ...	7
Item 20. U.S. and International Approaches to Performance Measurement for Transportation Systems (<i>TRB Conference Proceedings 44</i>)	7
Item 21. The Federal Investment in Highway Research 2006-2009 (<i>TRB Special Report 295</i>)	7



Research Digest

Item 1

An Airport Guide for Regional Emergency Planning for CBRNE Events

TRANSPORTATION RESEARCH BOARD

ACRP Report 12 • 2009

This report explores details airports should cover in their hazard and threat assessments and in their Airport Emergency Plans (AEPs) and Annexes. The report also examines issues involving terrorist use of chemical, biological, radiological, nuclear, or explosive (CBRNE) materials targeted to airports.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/acrp/acrp_rpt_012.pdf

Item 2

ACRP Annual Report of Progress 2008

TRANSPORTATION RESEARCH BOARD

ACRP Report of Progress 2008 • 2008

The Airport Cooperative Research Program (ACRP) conducts applied research on problems important to airport operators. The ACRP was authorized in December 2003 as part of the Vision 100-Century of Aviation Reauthorization Act. The Program is sponsored by the Federal Aviation Administration (FAA) and managed by the National Academies, acting through its Transportation Research Board (TRB), with program oversight provided by an independent governing body (the ACRP Oversight Committee) including representatives of airport operating agencies.

Full-text PDF of this report is available for free download from
<http://www.trb.org/NotesDocs/ACRPAnnual2008.pdf>

Item 3

Current and Emerging Issues Facing the Airport Industry

TRANSPORTATION RESEARCH BOARD

ACRP Research Results Digest 5 • 2009

This digest summarizes the program and the process for identifying strategic research areas for use with the FY 2010 ACRP problem statement solicitation process and beyond.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/acrp/acrp_rrd_005.pdf



Research Digest

Item 4

Preventing Vehicle-Aircraft Incidents During Winter Operations and Periods of Low Visibility

TRANSPORTATION RESEARCH BOARD

ACRP Synthesis 12 • 2008

This synthesis examines factors affecting safe winter operations and the prevention of runway incursions by airport snow removal equipment operators.

Full-text PDF of this report is available for free download from

http://onlinepubs.trb.org/onlinepubs/acrp/acrp_syn_012.pdf

Item 5

Safety Impacts of Speed Limiter Device Installations on Commercial Trucks and Buses

TRANSPORTATION RESEARCH BOARD

CTBSSP Synthesis 16 • 2008

This synthesis explores issues associated with speed limiters including measurable safety impacts, metrics, and degree of benefit. Speed limiters, also described as speed governors, are devices that interact with a truck engine to only permit the attainment of a pre-programmed speed.

Full-text PDF of this report is available for free download from

http://onlinepubs.trb.org/onlinepubs/ctbssp/ctbssp_syn_16.pdf

Item 6

Major Legal Issues for Highway Public-Private Partnerships

TRANSPORTATION RESEARCH BOARD

NCHRP Legal Research Digest 51 • 2009

This digest explores legal issues that are likely to arise in the implementation of public-private partnerships in the U.S. highway sector.

Full-text PDF of this report is available for free download from

http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_lrd_51.pdf



Research Digest

Item 7

Self-Consolidating Concrete for Precast, Prestressed Concrete Bridge Elements

TRANSPORTATION RESEARCH BOARD

NCHRP Report 628 • 2009

This report explores recommended guidelines for the use of self-consolidating concrete (SCC) in precast, prestressed concrete bridge elements. The report examines the selection of constituent materials, proportioning of concrete mixtures, testing methods, fresh and hardened concrete properties, production and quality control issues, and other aspects of SCC.

Attachment D, “Research Description and Findings,” provides detailed information on the experimental program and data analysis, and the findings of the literature review.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/Onlinepubs/nchrp/nchrp_rpt_628.pdf

Item 8

Ruggedness Testing of the Dynamic Modulus and Flow Number Tests with the Simple Performance Tester

TRANSPORTATION RESEARCH BOARD

NCHRP Report 629 • 2008

This report explores examines ruggedness testing that was conducted with a simple performance tester for the dynamic modulus and flow number tests.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_629.pdf

Item 9

Measuring Tire-Pavement Noise at the Source

TRANSPORTATION RESEARCH BOARD

NCHRP Report 630 • 2009

This report examines a suggested procedure for measuring tire-pavement noise at the source using the on-board sound intensity (OBSI) method.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_630.pdf



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Item 10

Performance Measures for Snow and Ice Control Operations

TRANSPORTATION RESEARCH BOARD

NCHRP Research Results Digest 335 • 2009

This digest explores methods and measures for assessing agency and contractor performance in snow and ice control operations. Additional information on the project, including information on the current practices regarding methods and measures to assess contract performance was published online as NCHRP Web-Only Document 136.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rrd_335.pdf

Item 11

Transportation's Role in Emergency Evacuation and Reentry

TRANSPORTATION RESEARCH BOARD

NCHRP Synthesis 392 • 2009

This synthesis explores information on transportation's role in emergency evacuation and reentry by summarizing aspects of its planning, control, and research as well as highlighting effective and innovative practices.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_392.pdf

Item 12

Adjacent Precast Concrete Box Beam Bridges: Connection Details

TRANSPORTATION RESEARCH BOARD

NCHRP Synthesis 393 • 2009

This synthesis explores current design and construction practices that are reported to reduce the likelihood of longitudinal cracking in box beam bridges.

Full-text PDF of this report is available for free download from
http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_syn_393.pdf



Research Digest

Item 13

TCRP Annual Report of Progress 2008

TRANSPORTATION RESEARCH BOARD

TCRP Annual Report of Progress 2008 • 2008

TRB's Transit Cooperative Research Program (TCRP) has released its annual report. The report provides background and an overview of the program. The report also includes a listing of the status on each of TCRP's projects as well as a summary of some of the accomplishments associated with the program.

Full-text PDF of this report is available for free download from

<http://www.trb.org/NotesDocs/TCRPAAnnual2008.pdf>

Item 14

Uses of Fees or Alternatives to Fund Transit

TRANSPORTATION RESEARCH BOARD

TCRP Legal Research Digest 28 • 2008

This digest explores the use of impact fees for transit in the United States. The report examines policy and legal considerations relating to the use of impact fees and developer exactions for transit, reviews various methodologies currently in use, and identifies cases that exemplify strategies transit agencies may pursue when considering impact fees as an alternative funding source.

Full-text PDF of this report is available for free download from

http://onlinepubs.trb.org/onlinepubs/tcrp/tcrp_lrd_28.pdf

Item 15

Local and Regional Funding Mechanisms for Public Transportation

TRANSPORTATION RESEARCH BOARD

TCRP Report 129 • 2009

This report explores a series of transit funding mechanisms with a primary focus on traditional tax- and fee-based funding; and common business, activity, and related funding sources. The report includes an online regional funding database (http://www.trb.org/news/blurb_detail.asp?id=9599) that provides an extensive list of funding sources that are in use or have the prospect of being used at the local and regional level to support public transportation. A user manual (http://onlinepubs.trb.org/onlinepubs/tcrp/tcrp_rpt_129_user_manual.pdf) for the database is also available online.

Note: The database is a very large file and may take some time to download.

Full-text PDF of this report is available for free download from

http://onlinepubs.trb.org/onlinepubs/tcrp/tcrp_rpt_129.pdf



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Item 16

Synthesis of Information Related to Transit Problems

TRANSPORTATION RESEARCH BOARD

TCRP Research Results Digest 91 • 2009

This synthesis is a digest of the progress and status of TCRP Project J-7, “Synthesis of Information Related to Transit Problems,” for which the Transportation Research Board is the agency conducting the research.

Full-text PDF of this report is available for free download from

http://onlinepubs.trb.org/onlinepubs/tcrp/tcrp_rrd_91.pdf

Item 17

Transit Systems in College and University Communities

TRANSPORTATION RESEARCH BOARD

TCRP Synthesis 78 • 2008

This synthesis explores practices and trends in the areas of campus transit operations, policies, and planning, with a special focus area in technology and environmental innovations. The report also examines innovative partnership strategies used to enhance services for students, faculty, staff, and the surrounding community.

Full-text PDF of this report is available for free download from

http://onlinepubs.trb.org/onlinepubs/tcrp/tcrp_syn_78.pdf

Item 18

Light Rail Vehicle Collisions with Vehicles at Signalized Intersections

TRANSPORTATION RESEARCH BOARD

TCRP Synthesis 79 • 2009

This synthesis explores mitigation methods tested and used by transit agencies to reduce collisions between light rail vehicles (LRVs) and motor vehicles where light rail transit (LRT) runs through or adjacent to highway intersections controlled by conventional traffic signals.

Full-text PDF of this report is available for free download from

http://onlinepubs.trb.org/onlinepubs/tcrp/tcrp_syn_79.pdf



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Item 19

Key Issues in Transportation Planning

TRANSPORTATION RESEARCH BOARD

TRB Conference Proceedings 43 • 2008

This conference proceedings summarizes plenary and breakout sessions of a November 2006 conference that explored the current state of the practice and long-term implementation experience associated with the programming process, successful practices in linking planning and programming, and the linking of programming processes to the development of performance measures and asset management systems. The conference also examined programming and politics, data requirements and data manageability, and effective approaches to public involvement for programming.

Full-text PDF of this report is available for free download from

<http://onlinepubs.trb.org/onlinepubs/conf/CP43.pdf>

Item 20

U.S. and International Approaches to Performance Measurement for Transportation Systems

TRANSPORTATION RESEARCH BOARD

TRB Conference Proceedings 44 • 2008

This conference proceedings is the proceedings of a September 2007 conference that explored opportunities for and experiences in using performance measurement as a strategic tool to better communicate goals, objectives, and results to a wide range of stakeholder groups.

Full-text PDF of this report is available for free download from

<http://onlinepubs.trb.org/onlinepubs/conf/CP44.pdf>

Item 21

The Federal Investment in Highway Research 2006-2009

NATIONAL RESEARCH COUNCIL. TRANSPORTATION RESEARCH BOARD (TRB)

TRB Special Report 295 • 2008

This special report assesses how well the investments that Congress made in research programs through the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users comply with the principles articulated in the preface to the act's research title. The report contains findings and recommendations about specific research programs and calls for reliance on competition and merit review in awarding funds through the Federal Highway Administration and in selecting institutions for the University Transportation Centers program of the Research and Innovative Technology Administration.

Full-text PDF of this report is available for free download from

<http://onlinepubs.trb.org/Onlinepubs/sr/sr295.pdf>