

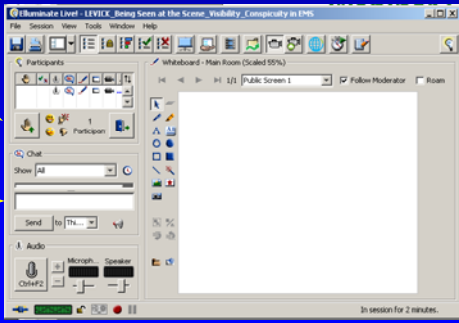
Welcome to the
EMS Transportation Safety
Subcommittee ANB10(5) meeting of
the National Academies –
Transportation Research Board
(TRB)
Being held during the 88th Annual
TRB Symposium in Washington DC

So what is a Webinar?

A Webinar is:

- ▶ Real time interactive web technology
- ▶ No other hardware is necessary aside from a computer connected to the internet and a microphone- if you choose to speak
- ▶ These interactive seminars can also be stored for later asynchronous use


Webinar Basics



Annotations for the webinar interface:

- Raise Hand
- Text messaging
- Type in your name and location
- The 'mic'

..use white board tools to mark your location....



Annotation for the whiteboard tool:

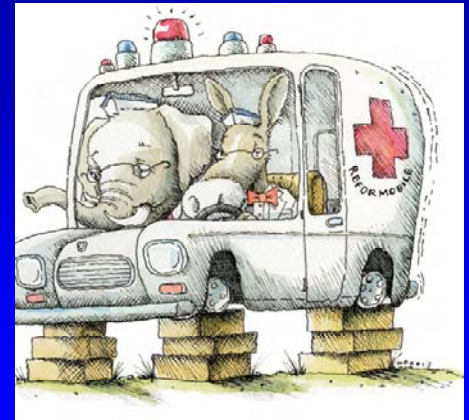
- Line tool

Today's Webinar is recorded!

The presentation
and
all comments typed in the text box



will be available for viewing via the
www.objectivesafety.net
web site within 24 hours



Transportation Research Board 88th Annual Meeting,
National Academies Washington, DC, January 13th, 2008
"Transportation, Energy, and Climate Change"

**The National Academies
Transportation Research Board
(TRB)
EMS Transport Safety
January 2009 Subcommittee
Meeting**

Nadine Levick, MD MPH
Chair, TRB EMS Transport Safety Subcommittee
CEO, Research Director, EMS Safety Foundation
New York, New York, USA

This afternoon's Webinar

▶ Will cover:

- ♦ An overview of the TRB and opportunities for EMS - What is it, what does it do, and what can it do for EMS/Medical Transport?
- ♦ Synopsis of EMS Transportation Safety Subcommittee's first year of activity
- ♦ Subcommittee organizational structure
- ♦ Research funding pathways and processes via the TRB
- ♦ Research Agenda Discussion/Workshop

**Emergency Medical Services Safety
Subcommittee ANB10(5)
of the Transportation Research Board
Tuesday January 13, 2009
3:45 PM - 5:30 PM
also via Webinar, Washington DC**

**Chair – Nadine Levick MD, MPH
Sponsored by Transportation Safety
Management Committee (ANB10) –**

AGENDA

1. Introduction - 5 min
2. Review of 2008 Minutes – - 5 min
3. Brief overview of the Transportation Research Board and its importance to EMS Transportation Safety - 5 min
4. Synopsis of EMS Transportation Safety Subcommittee's first year of activity - 5 min
5. Subcommittee organizational structure - 10 min
6. Ambulance Transport Safety 2009 Summit - October 29 - 5 min
7. Research funding pathways and processes via the TRB - 10 min
8. Research Agenda Discussion/Workshop (commence at 4.30pm EST) - 55 min
9. Other business - 5 min

What is ANB 10 (5)?

- ▶ **Emergency Medical Services Safety Subcommittee, ANB 10 (5)**
- ♦ Subcommittee of the Transportation Safety Management Committee ANB 10, of the Transportation Research Board of the National Academies

The Transportation Research Board (TRB)

▶ **History**

TRB was established in 1920 as the National Advisory Board on Highway Research to provide a mechanism for the exchange of information and research results about highway technology.

TRB MISSION

- ▶ To provide leadership in transportation innovation and progress through research and information exchange, conducted within a setting that is objective, interdisciplinary, and multimodal.

TRB

- ▶ One of 6 major divisions of the National Research Council
- ▶ A private, nonprofit institution
- ▶ Principal operating agency of the National Academies in providing services to government, public, and scientific and engineering communities.
- ▶ The National Research Council is jointly administered by:
 - ♦ National Academy of Sciences
 - ♦ National Academy of Engineering
 - ♦ Institute of Medicine.
- ▶ Engages >7,000 engineers, scientists, and other transportation researchers and practitioners from public and private sectors and academia
- ▶ Supported by state transportation departments, federal agencies including U.S. Department of Transportation, and other organizations and individuals interested in the development of transportation.

TRB Goals

1. Anticipate future transportation challenges and provide leadership in promoting and conducting research and policy analysis to prepare the United States for meeting those challenges.
2. Conduct and promote knowledge creation and dissemination, especially on innovative practices and technologies in the transportation sector.
3. Provide timely and informed advice on transportation and transportation-related issues to decision makers and others who are responsible for the nation's multimodal transportation system.
4. Act as an effective and impartial forum for the exchange of knowledge and information, including transportation and its relationship with social, economic, environmental, and other issues.

TRB Goals

5. Promote collaboration on transportation research, education, and technology transfer at international, national, regional, state, and local levels; across public and private sectors; and with transportation providers, customers, and other stakeholders.
6. Contribute to the professional development of individuals currently working in transportation and to the education and enhanced diversity of the pool of individuals who will work in the field in the future.
7. Conduct and promote communications efforts to enhance the awareness of transportation research and its contributions to innovation and progress in transportation.
8. Contribute to the public's understanding of transportation and its significance to the nation.

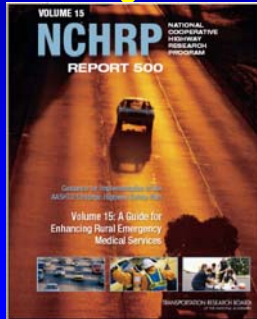
TRB divisions

- ▶ Technical Activities supports standing committees and task forces.
- ▶ Studies and Special Programs convenes specially appointed expert committees to conduct policy studies and program reviews, maintains the TRIS database, provides library services, prepares synthesis reports on behalf of the Cooperative Research Programs, and manages the Innovations Deserving Exploratory Analysis (IDEA) programs.

TRB research programs

- ▶ Cooperative Research Programs manages
 - ♦ National Cooperative Highway Research Program - NCHRP
 - ♦ Transit Cooperative Research Program - TCRP
 - ♦ Airport Cooperative Research Program - ACRP
 - ♦ National Cooperative Freight Research Program - NCFRP
 - ♦ Hazardous Materials Cooperative Research Program - HMCRP
- ▶ Strategic Highway Research Program 2 (SHRP-2)
 - ♦ manages a targeted, short-term, results-oriented program of contract research designed to advance highway performance and safety for U.S. highway users.
- ▶ Administration and Finance provides financial, information technology, and other administrative support, including financial oversight of the contracts and grants that support the work of TRB, administration of publications sales and distribution, and maintenance of benefits and services for sponsor and affiliate organizations.

Transportation Research Board is an excellent resource... we should be using it!!



In Summary TRB Services

- ▶ A resource to the nation and to the transportation community worldwide
 - ♦ Opportunities for information exchange on current transportation research and practice
 - ♦ Management of cooperative research and other research programs
 - ♦ Analyses of national transportation policy issues and guidance on federal and other research programs
 - ♦ Publications and access to research information from around the world.

Special role for EMS at TRB

- ▶ One of the Key 4 E's
 - ♦ Engineering
 - ♦ Education
 - ♦ Enforcement
 - ♦ Emergency Medical Services

SAFETEA-LU

Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users

- ▶ Highway Improvement Program (HIP)
- ▶ Strategic Highway Safety Plans (SHSP)

State Strategic Highway Safety Plans

- ▶ Required as part of the SAFETEA-LU legislation
- ▶ Effective October 1st 2007
- ▶ Focus is the 4 'E's
- ▶ EMS is a core theme



State SHSP EMS Focus*

STATE SHSP	AREA of EMS FOCUS
New York EMS Section 6 of 43 pages	<ol style="list-style-type: none"> 1. Emergency Medical Services Dispatch Services 2. Emergency Medical Services Partnerships 3. Pre-hospital Training Programs 4. Road Condition and Incident Response 5. EMS Responder Crash Prevention
Montana EMS Section 4 of 36 pages	<ol style="list-style-type: none"> 1. Establish EMS Legislation and Regulation 2. Provide EMS Funding 3. Enhance Capabilities for Medical Response to Disaster 4. Expand EMS Human Resources 5. Enhance EMS Education System 6. Expand EMS Services 7. Facilitate EMS Communications 8. Conduct EMS Public Education and Information Programs 9. Conduct Injury Prevention Public Awareness Efforts 10. Enhance Medical Direction 11. Provide Enhanced Trauma System and Facilities 12. Establish an EMS Information System 13. Evaluate and Monitor EMS Programs
Alabama EMS Section 8 of 47 pages	<ol style="list-style-type: none"> 1. Identify and Analyze Performance Data 2. First Responders 3. Identify Crash Location 4. Statewide assessment and Plan 5. Improve EMS Rural Access

*Cordi H, Levick N, Strategic Highway Safety Plans—Where is EMS?, Jan 2008

TRB Annual Symposium

The image shows two screenshots of the Transportation Research Board (TRB) website. The top screenshot is for the 87th Annual Meeting, held from January 13-17, 2008, in Washington, DC. The bottom screenshot is for the 88th Annual Meeting, held from January 11-15, 2009, also in Washington, DC. Both screenshots show the TRB logo, navigation menus, and a list of meeting topics such as Registration, Housing & Hospitality, Program, Exhibits & Sponsorships, and Directions & Local Area.

Who is attending the general TRB meeting

How do TRB Subcommittees work?

EMS Safety Subcommittee ANB10(5)

- ▶ Supported by Transportation Safety Management ANB10
- ▶ Established July 2007
- ▶ First Subcommittee meeting – Jan 2008
- ▶ Chair, Nadine Levick MD, MPH
- ▶ Co-Chair, Eileen Frazer, RN
- ▶ Scope – Medical Transport Safety

This is what was covered at Inaugural Subcommittee meeting, Jan 2008

- ▶ Brief introduction re: the TRB
- ▶ Presentations:
 - Automotive safety perspectives - Prof Raphael Grzebieta, Chair of Road Safety UNSW
 - Achievements and milestones of aviation medical transport safety – Eileen Frazer, CAMTS
 - Overview of EMS transport safety issues and research – Nadine Levick MD, MPH – Chair ANB10(5)
 - Safety perspectives from an EMS Medical Director – John Russell MD - CCPA
- ▶ Policy perspectives
- ▶ An update on some research underway
- ▶ Discussion and workshop on research perspectives and needs

Recording link – www.objectivesafety.net sidebar

Multidisciplinary research

- ▶ Encompassing all aspects of transportation
- ▶ The expertise that EMS needs to address its transportation safety challenges includes:
 - ◆ Systems design
 - ◆ Transport systems safety
 - ◆ Human factors
 - ◆ Vehicles
 - ◆ Vehicle operations
 - ◆ Air medical transport safety
 - ◆ Impaired operators
 - ◆ Highway and operational hazards

87th TRB, EMS Jan 2008 Poster



<http://www.objectivesafety.net/2008TRBposterfinal.pdf>

87th TRB, Jan 2008 EMS Paper - Emergency Medical Services: A Unique Transportation Safety Challenge

EMERGENCY MEDICAL SERVICES: A UNIQUE TRANSPORTATION SAFETY CHALLENGE

ABSTRACT

Emergency Medical Service (EMS) is an essential and transportation based emergency service, and now key component of the new SAFETEA-LU required State Strategic Highway Safety Plans. Ground EMS responds to approximately 30 million emergency medical injury calls annually. In contrast to other commercial transport vehicles, ambulance transport safety is not currently encompassed by the Federal Motor Carrier Safety Administration (FMCSA), nor formally by any other overseeing body and hence the safety oversight of this transport system is fragmented and largely devoid of current technical transportation safety input.

This is of serious concern, particularly when the crash fatality rate for these EMS vehicles per mile traveled is estimated to be in excess of 10 fold higher than that for heavy trucks. Additionally there are ambulance "wake effect" crashes, with rates in excess of five fold of the identified ambulance crash rates.

These deficiencies in EMS transportation safety process range in spectrum from safety

<http://ntlsearch.bts.gov/tris/index.do>

Ambulance Transportation Safety (ATS) Task Force

- ▶ Ad Hoc Committee from across EMS/Medical Transport practice and operations
- ▶ Appealing to the NTSB:
 - ◆ To investigate the July 20th 2007 Antwerp Ohio crash
 - ◆ To investigate serious ambulance crashes
- ▶ Collaboration with ANB10(5) to set up Ambulance Transport Safety Summit

Oct 2008 - Air EMS on the NTSB's "Most Wanted List"

October 2008 JEMS Article "Rig Safety - 911"

Transportation Research Information Services (TRIS)

- ▶ Online Research Information
- ▶ TRB produces and maintains the Transportation Research Information Services (TRIS), the world's largest and most comprehensive online bibliographic database of published and ongoing transportation research.
- ▶ Through a cooperative agreement with the Bureau of Transportation Statistics, the TRIS Database is available on the Internet through the website of the National Transportation Library. This service, TRIS Online, can be accessed through the TRB homepage at www.TRB.org. TRIS is also available through two fee-based services, Dialog and Silverplatter's TRANSPORT CD-ROM.

Other TRB Online Resources

- ▶ Research in Progress (RiP) Database
- ▶ RiP provides access to more than 9,500 descriptions of current or recently completed transportation research projects from federal and state transportation agencies, universities, and international organizations
- ▶ The TRB Publications Index is a searchable index of the Board's papers and reports.

Synthesis Program

- ▶ Reports on current knowledge and practice
- ▶ Synthesize fragmented, scattered, and unevaluated existing information
- ▶ Initiation of ~ 12 syntheses per year
- ▶ Selection process for synthesis topics:
 - widespread enough to generate broad interest
 - timely and critical for expediting delivery, improving the quality, or lowering the cost of transportation programs
 - current practice is non-uniform or inconsistent from agency to agency, or if the validity of some practices appears to be questionable
 - a need to organize and compress that which has already been learned and written on the topic
 - ongoing research or other activities in progress should not render the synthesis obsolete shortly after completion

<http://www.trb.org/Studies/Synthesis/SynthesesNCHRP.asp>

National Cooperative Highway Research Program (NCHRP) Synthesis

- ▶ New NCHRP Synthesis topics submissions due February 13, 2009

Strategic Highway Research Program (SHRP 2)

- ▶ Congress established the second strategic highway research program (SHRP 2) in 2006 to investigate the underlying causes of highway crashes and congestion in a short-term program of focused research. Focus areas:
 - **Safety:** Significantly improve highway safety by understanding driving behavior in a study of unprecedented scale
 - **Renewal:** Develop design and construction methods that cause minimal disruption and produce long-lived facilities to renew the aging highway infrastructure
 - **Reliability:** Reduce congestion and improve travel time reliability through incident management, response, and mitigation
 - **Capacity:** Integrate mobility, economic, environmental, and community needs into the planning and design of new transportation capacity

The screenshot shows the SHRP 2 website interface. At the top, there is a navigation bar with tabs for Home, Publications, News, and other sections. Below the navigation bar, the SHRP 2 logo is displayed on the left, and the main heading 'Strategic Highway Research Program SHRP 2' is centered. Underneath the heading, there is a tagline: 'Accelerating solutions for highway safety, renewal, reliability, and capacity.' The main content area is titled 'News' and contains several news items with dates and brief descriptions. On the left side, there is a sidebar with four large icons representing the focus areas: Safety, Renewal, Reliability, and Capacity. Below these icons, there are links for 'General', 'News', 'About', and 'Program Schedule'. At the bottom of the page, there are sections for 'Publications', 'RFPs', and 'Resources'.

SHRP2
Safety

In the SHRP 2 Safety research area, both vehicle-based and infrastructure-based technologies will be used to gather pre-crash, crash, and exposure data. The data can then be analyzed and applied to safety countermeasures. Projects that comprise the SHRP 2 Safety Research Plan are shown in the [Project Database](#), which is organized by project number. Click the project number for a description of the expected project activity.

Fourth SHRP 2 Safety Symposium
July 23-24, 2008
Posted October 10, 2008

The Fourth SHRP 2 Safety Research Symposium is scheduled for July 23-24, 2008 in the National Academies' Mack Center in Washington, DC.

Recorded Webinars Available for SHRP 2 Conference for Data Acquisition System Procurement
Posted October 17, 2008

The recorded national of the September 16, 2008, pre-hat conference for Data Acquisition System procurement (Safety project 012) is now available. The recording shows the PowerPoint presentations and contains the audio from the conference. For further information please see [this page](#).

Symposium Addresses Questions Concerning Study Design and Data Collection
Posted July 29, 2008

The Third SHRP 2 Safety Research Symposium, which was held July 17-18 at the National Academies' Mack Center in Washington, DC, gathered nearly a hundred safety researchers from the U. S. and abroad to review the study design and data collection methods for the Safety research program.

Publications
SHRP Annual Report
Quarterly Newsletter
Program Briefs
Safety
Research
Newsletters
Capacity
Implementation of Phase
SBPs

Each of the four research teams for Project 017 presented updates. Speakers included Gary Davis, Paul Janssen, Lida Kozminsk and Paul...

IDEA Program

IDEA Program
Innovations, Emerging
Regulatory Analysis Programs

TRANSPORTATION RESEARCH BOARD
IDEA Programs
Innovations Emerging Regulatory Analysis

Safety IDEA

The Safety IDEA program is sponsored by the Federal Motor Carrier Safety Administration and the Federal Railroad Administration. This U.S. Department of Transportation and its agencies plan to release funding over several years to support the Safety IDEA program activities being proposed that address innovative approaches to improving safety for all our safety-critical activities. The program opportunities include transportation, public performance, and advanced transportation, operational practices, and health research, among other related areas.

The program is funded and managed by a committee of experts who, recognizing their time and service, were provided a year and were not paid for their efforts. The program is a major initiative of the Transportation Research Board (TRB) and is a key component of the U.S. Department of Transportation's efforts to improve safety for all our safety-critical activities.

Support and feedback from state, regional, and federal agencies, and the private industry are essential to the success of the IDEA program. We encourage you to contact us for more information and to submit your proposals.

The Safety IDEA Committee uses the following for other meeting purposes:

- Contact: Safety Staff, Program Manager, idea@trb.org

NEMSMA

Jan 4, 2009

NATIONAL EMS MANAGEMENT ASSOCIATION

Dear President-elect Obama and Secretary-designate Clinch:

January 4, 2009

The Honorable Barack Obama and The Honorable Tom Daschle
The White House
1600 Pennsylvania Avenue
Washington, DC 20503

Dear President-elect Obama and Secretary-designate Clinch:

America's Emergency Medical Services (EMS) agencies and providers are uniquely positioned to be key assets in implementing your plan for health care reform. EMS serves the entire geographic and population of this country at the intersection of health care, public safety, and justice health, and we see new opportunities for EMS providers to improve health care more efficient and effective in a manner in which other segments of the health care industry are not capable.

We share common goals of providing high quality health care while making it more accessible and affordable for all Americans. We stand ready to assist your Administration to achieve its goals, but to get there we also need your assistance.

A nationwide EMS Health Care Community Discussion was hosted on December 29, 2008, by the National EMS Management Association to develop the consensus-based National EMS Health Care Community Discussion Report. The report outlines the identification of four primary issues that, if addressed, could affect change that would allow EMS providers to provide exceptional savings while better serving populations. These are:

1. Federal ambulance payment methodology. Medicare has costly care
2. Federal support for EMS in building
3. EMS provider and patient vehicle safety has no federal oversight
4. Homeland Security Funds are not reaching EMS agencies

FC Box 507912 • San Diego, CA 92162 • Phone (760) 450-0000 • Email info@nemsma.org

Research Approaches

- ▶ Submission avenues:
 - ◆ Synthesis topic - NCHRP
 - ◆ SHARP 2 – Safety
 - ◆ Research questions
 - ◆ other

Sample Research Question

TEMPLATE AND EXAMPLE

Title

The purpose of the study is to explore roadway engineering improvements that can be implemented to reduce drunk driving crashes. It is generally accepted that most DWI crashes are behavioral in nature, one or more drivers being intoxicated with alcohol or other drugs. Yet, studies on the location of DWI crashes do find specific locations where a disproportionate number of such crashes occur. The purpose of the study will be to identify potential roadway engineering improvements that could reduce DWI crashes, including changes in roadway geometry, signage, signage, creation of obstacles to slow drivers, automated detection systems for erratic driving, adaptive signals to slow vehicles, and other roadway technologies.

The research study will accomplish three tasks. First, the researcher will review the literature on engineering features to identify possible improvements and roadway technologies that could reduce DWI crashes. Second, the researcher will conduct interviews with knowledgeable individuals about each of the technologies to explore benefits, problems and potential costs. Third, the researcher will produce a report comparing the technologies and will estimate the likely benefits and costs of each of the technologies, and will produce a prioritization.

Objective

The objective is to increase the range of tools available for departments of transportation and public works and local police to reduce DWI crashes.

Key Words

Safety engineering, DWI, Behavior modification

Related Work

Studies have been conducted that demonstrate concentrations of DWI crashes (hot spots). There is a long history on mitigating crash hot spots. Implementing improvements could reduce DWI and other behavioral-induced crashes.

Very important. This study is very important because drunk driving is the major cause of motor vehicle fatalities in the United States which, in turn, places a huge cost on our society, both monetary and in terms of the public good.

Cost

\$75,000 - \$125,000

User Community

FHWA, NHTSA, ITE, AASHTO, AMPO, NARC, IACP, USDOT, NJ

Implementation

The study will involve a literature review, interviews with experts, and a conceptual evaluation.

Effectiveness

This would be a first step in identifying new or overlooked technologies that could reduce DWI crashes.

TRB TRANSPORTATION RESEARCH BOARD
OF THE NATIONAL ACADEMIES

Home contact

RNS **RESEARCH NEEDS STATEMENTS**

Browse
By Research Area
By Subject Category
By Committee

Search
Advanced Search

Subscribe

User Login

Resources
Research in Progress
TRB Online

An important function of the Transportation Research Board (TRB) is to stimulate research that addresses persistent issues or problems facing the transportation community. In support of this function, TRB Technical Publishers operating committees identify, develop, and disseminate research need statements (RNS) for use by practitioners, researchers, and others. The RNS on this website have been developed by the technical committees.

SEARCH

- To return a record or records in the database, enter a word or phrase in the "Search Term" box.
- For a wildcard search, use an asterisk (*) after a partial word.
- For a boolean search, use OR, AND, or AND NOT between words or phrases.
- For the committee field, click "Loading" to search based on your assigned task.

Submit Query [Clear]

Search Field: Search Term:

Committee: Loading

Subject Category: All Committees

Submit Query [Clear]

Discussion