The National Academies
Transportation Research Board (TRB)
What is it, what does it do – and what can it do for EMS/Medical Transport?

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

Today's Webinar is recorded!
The presentation and all comments typed in the text box will be available for viewing via the web site within 24 hours.
This morning’s Webinar

- Will cover:
  - An overview of the TRB and opportunities for EMS
  - Some automotive and transportation safety dimensions
  - EMS/medical aviation and ground transport safety challenges and opportunities
  - Some practical perspectives from the field
  - Research directions

The TRB

- 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 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.
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.

Structured Transportation research programs and agendas

TRB research programs
- Cooperative Research Programs manages
  - National Cooperative Highway Research Program
  - Transit Cooperative Research Program
  - Airport Cooperative Research Program
  - National Cooperative Freight Research Program
- Strategic Highway Research Program 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.

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, and
  - 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*

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<th>STATE SHSP</th>
<th>AREA OF EMS FOCUS</th>
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Strategic Highway Safety Plans

- Background info

Valuable information from the transportation industry

Safe Practices for Fleet Motor Vehicle Operations
Multidisciplinary research

- Encompassing all aspects of transportation
- The expertise that EMS needs to address transportation safety challenges
  - Systems design
  - Human factors
  - Vehicles
  - Vehicle operations
  - Impaired drivers
  - Highway Hazards

What is ANB 10 (5)?

- Transportation Safety Management Committee ANB 10
  - Emergency Medical Services Safety Subcommittee, ANB 10 (5)

How do TRB Subcommittees work?

Who is attending the general TRB meeting?
Who is here in this EMS Subcommittee meeting this year

This brief introduction re: the TRB
A presentation from Prof. Raphael Grzebieta – Chair of Road Safety UNSW
Presentation on the achievements and milestones of aviation medical Transport Safety – Eileen Frazer
An overview of EMS transport safety issues and research – Nadine Levick
Policy perspectives
An update on some research underway
Some perspectives from an EMS Medical Director – John Russel MD
Discussion and workshop on research perspectives and needs

Who oversees safety performance and safety research for EMS/Medical Transport

Aviation - FAA, NTSB,
Ground - ………

Ambulance Transportation Safety (ATS) Task Force

Ad Hoc Committee from across EMS/Medical Transport practice and operations
Officially appealing to the NTSB:
• to investigate the July 20th Antwerp Ohio crash
• To investigate serious ambulance crashes


Automotive Safety and Crashworthiness Engineer
Professor & Chair of Road Safety, Injury Risk Management Centre, University NSW
Published over 160 papers in structural crashworthiness research, accident investigation, failure analysis, numerical modelling and experimental crash testing.
Team has carried out dozens of crash tests and numerous computer modeling and theoretical studies investigating and mitigating injuries in truck under-run, far-side impact, rollover and roadside barrier crashes, and numerous accident reconstruction analyses for insurance companies, legal firms, and for criminal and coronial inquests.