Welcome to the National Academies, TRB 94rd Annual Meeting "Corridors to the Future: Transportation and Technology"

The National Academies **Transportation Research Board** (TRB)

**EMS Transport Safety ANB10(5)** January 2015 Subcommittee Meeting

Monday January 12th 8-9.45 Marriott Marquis, Eastern Market (M3)

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Transportation Research Board 94rd Annual Meeting. National Academies Washington, DC, January 12th, 2015 "Corridors to the Future: Transportation and Technology"

**Emergency Medical Services Transport Safety** Subcommittee ANB 10 (5) 2015 January Meeting:

ANB10(5) – EMS Transport Safety and developments in Technology and Standards

Nadine Levick, MD MPH Chair Emergency Medical Services Subcommittee ANB10 (5), TRB CEO, Research Director, EMS Safety Foundation Eileen Frazer RN Co-Chair ANB10(5) TRB

Executive Director of Commission on Accreditation of Medical
Transport Systems (CAMTS)
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**Emergency Medical Services Safety Subcommittee ANB10(5)** of the Transportation Research Board Monday January 12th, 2015 8.00 am - 9.45 am also via Webinar, Washington DC

Chair - Nadine Levick MD, MPH Co-Chair - Eileen Frazer RN Sponsored by Transportation Safety Management Committee (ANB10) -

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#### Inaugural 2008 ANB10(5) Subcommittee meeting



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# 94th TRB www.TRB.org TRANSPORTATION RESEARCH BOARD

#### What is EMS?

- Emergency Medical Services (EMS)
- Emergency medical care, public health, public safety and patient transport
- · Bridge between the community and the hospital
- Volunteer professional
- Urban rural
- Disaster response
- · Majority of transports NOT critical or life threatening – (<3% are critical)

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### Transport related aspects of

- · dispatch of EMS vehicles
- · transport policies and protocols
- · vehicle fleets and vehicle design
- vehicle purchase standards
- · Intelligent Transportation Systems technology
- driver training
- driver performance monitoring
- · roadside and road design
- · integrated traffic safety technologies
- · scene safety and visibility
- safety data capture
- safety oversight

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#### For the transportation folks...

Why is EMS Transportation Safety a focus

- Data state that per vehicle and per mile travelled high fatality rates
- Driven by drivers overrepresented in high risk group: under 25 years of age/male
- Designed outside of the automotive safety and occupant protection arena
- Dangerous driving practice: Travel at high speed and run red lights

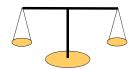
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#### Yet....

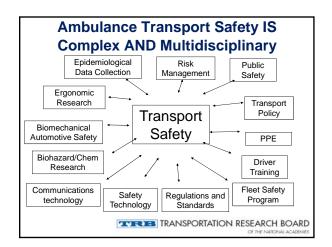
• In less than 3% of transports is it a life threatening emergency

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#### Balance of concerns and risk during transport



- Response and transport time
- Clinical care provision
- Occupant safety/protection
- Public Safety



#### **Negative impact on system** performance...

- · A medical error may kill a patient
- An EMS crash can kill all those involved AND wipe out a rural EMS system AND negatively impact a regions response capacity......

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#### **USA EMS transport safety data** estimates

includes police report data\* and estimates based on known data capture deficiencies

- ~ 81.000 vehicles
- upto 9,000 crashes a year
- ~ One fatality each week
  - ~ 2/3 pedestrians or occupants of other car
- ~10 serious injuries each day
  - >50% not ambulance occupants
- Cost estimates > \$500 million annually

\*FARS/GES 2014 -http://www.naemt.org/Files/HealthSafety/2014%20NHTSA%20Ground%20Amublance%20Cra

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#### Ambulance transport a serious **USA** transport safety problem...

- the most lethal vehicle on the road both per mile travelled and per vehicle
- is exempt from federal commercial fleet safety oversight (FMCSA)
- 2/3 fatalities not in the ambulance
- More than half injuries are not in the ambulance
- · Exempt from most FMVSS standards

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#### In the USA there are more safety standards for moving cattle than for moving patients



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#### **Today's AGENDA**

- 1. Opening Remarks Nadine Levick and Eileen Frazer 8:00 -8.15 AM 2. Subcommittee Meeting 8:15 9:45 AM
  - 2.1 Introductions
  - 2.2 Review and Approval of Minutes from 2014
  - 2.3 Review of Subcommittee activities 2014
    2.4 Sub-committee work program updates:
    - 2.4.1 Ambulance Transport Safety Summit 2015
    - 2.4.2 Research Needs Statements Research Topics Database 2.4.3 Administrative issues
      2.4.3.1 Liaison organizations
      2.4.3.2 TRB Changes/Communications/Website

      - 2.4.3.3 Membership/Recruitment 2.4.3.4 2016 TRB Session Topics and Calls for Papers
- 3. EMS National Updates -
  - 3.1 Standards developments in 2014 3.2 TIMS

  - 3.3 NAEMT Safety Course Update 3.4 VFIS 3.5 Federal Projects
  - 3.6 New communications technologies

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# Follow hashtags #TRBEMS15, #ANB10(5), #EMSSafety on twitter!

#### **Introductions**

2.2 Review and Approval of

Minutes from 2014

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#### ANB10(5) Jan 2014 Subcommittee Meeting Minutes

www.EMSSafetyFoundation.org/ TRBJan2014MeetingMinutes.pdf TRANSPORTATION RESEARCH BOARD

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# A HUGE Thank you from ANB10(5) to

#### **Rick Pain PhD**

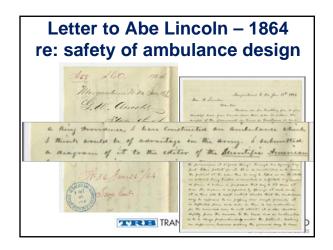
for steadfast, inspiring and insightful mentorship

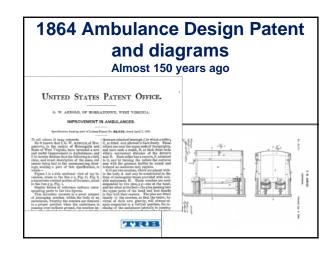
Without Rick's visionary leadership, none of the activities of ANB10(5) would have ever been possible

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This years TRB theme "Corridors to the Future:
Transportation and Technology"











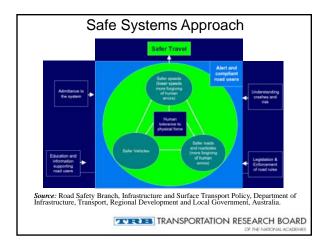




# From our very first Subcommittee meeting

 facilitating translation of relevant related transportation safety research and knowledge to EMS

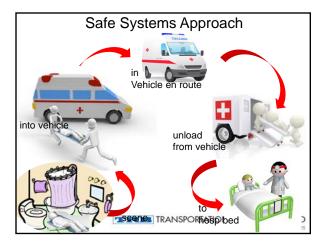
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#### Systems safety of:

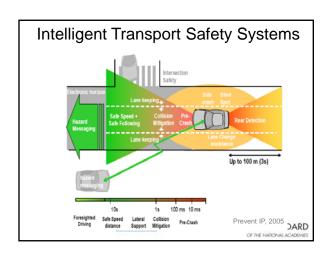
- · Dispatching a vehicle
- Getting you, your patient and equipment to, in and out of the vehicle
- Providing patient care inside the vehicle
- Occupant protection in crash and near miss situations
- Public safety

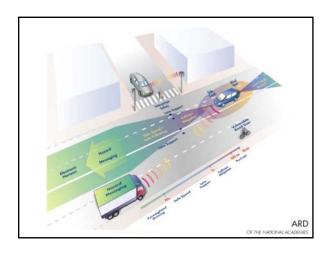
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#### **System Design Constraints**

- Do the clinical work that is required and essential
- Not get hurt or killed
- Not hurt or kill anyone else So...
- Clinical need
- Human tolerance of injury





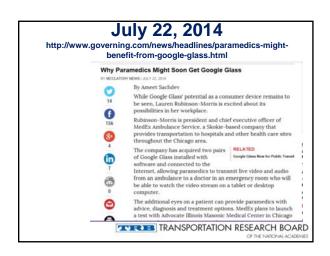


















#### Breaking down the silos between:

- EMS practice
- Automotive occupant protection
- Fleet management
- Human factors and ergonomics
- New technologies in monitoring, communication
- Interoperability
- Fragmented oversight











#### This morning's meeting

- · Will cover:
  - Review of TRB EMS Safety Subcommittee's activities
  - An overview of the TRB and opportunities for EMS
  - Research funding pathways via the TRB
  - National updates
  - Research Needs/Problems/Statements

#### The TRB and EMS

TRB Mission:

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

- Provides service to government, public, and scientific and engineering communities.
- TRB Goals:
  - Being prepared for challenges.
  - Conduct and promote knowledge.
  - Provide timely and informed advice.
  - Act as an effective and impartial forum.
  - Promote collaboration.
  - Contribute to the professional development
  - Conduct and promote communications efforts.
  - Contribute to public's understanding.
  - A resource to the nation and to the transportation community worldwide

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#### 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

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### EMS Safety Subcommittee ANB10(5)

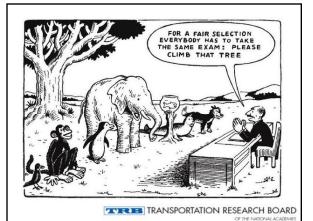
- Subcommittee supported by Transportation Safety Management ANB10
- Established July 2007
- First Subcommittee meeting Jan 2008
- · Chair, Nadine Levick MD, MPH
- · Co-Chair, Eileen Frazer, RN
- Scope Medical Transport Safety

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#### **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
  - Fleet operations
  - Air medical transport safety
  - Managing impaired operators
  - Road design and egress and access
  - Highway and operational hazards

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#### **Fragmentation**

 There are now numerous and variably sound or technically sophisticated events occurring sporadically on ambulance safety – none under a transportation umbrella

#### ANB10 (5) TRB EMS **Subcommittee Mission**

- 'Bridging the gap between what we do and what is known
  - Enhancing ambulance transport safety through shared knowledge of technical data'.

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#### Integration

ANB10(5) is an independent platform for:

- Bringing fragmented information together
- Uniting diverse disciplines
- Focus on technically robust information

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#### 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.

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#### 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.

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#### 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.

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#### TRB research programs

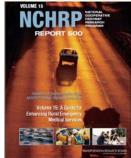
- Cooperative Research Programs manages
  - National Cooperative Highway Research Program NCHRP
  - Transit Cooperative Research Program TCRP
  - Airport Cooperative Research Program ACRP
- National Cooperative Freight Research Program NCFRP
   Hazardous Materials Cooperative Research Program HMCRP
- 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.

#### Special role for EMS at TRB

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



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



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#### **Emergency Medical Services Response to Motor Vehicle Crashes in Rural Areas**

http://www.trb.org/Main/Blurbs/169523.aspx



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#### 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
  - Analyses of national transportation policy issues and guidance on federal and other research programs
  - Publications and access to research information from around the world.

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#### Who is attending the 94th TRB meeting

 >12,000 transportation related researchers and technical personnel from all over the globe

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#### **TRB 2015**

- Making Ambulances Safer for EMS Personnel
  - James Green, National Institute of Occupational Safety and Health
- A Mathematical Formulation and Heuristic Method for Relocation and Dispatching of Heterogeneous Fire Department Fleet
  - Elham Sharifi, University of Maryland, College Park Ali Haghani, University of Maryland, College Park
  - Hadi Sadrsadat, University of Maryland, College Park
- A Double Standard Model For Emergency Medical Services Allocation Considering Resource Uncertainty
  - Yi Liu, Illinois Institute of Technology
  - Zongzhi Li, Illinois Institute of Technology
  - Harshingar Patel, Illinois Institute of Technology
  - 15-4705

#### TRB Resources and Structured Transportation Research Programs



# TRB Resources and Databases Resources and Databases TRB evaluation a number of databases and other resources designed to help researchers identify existing, origing, needed, and potential areas for fund weathers and recorded resistants that are available for dominated. Websurg and Conference Recording TRB evaluation from the product programs and are available for dominated. Websurg and Conference Recording TRB evaluation from the program of the programs of the program

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# 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.

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### Other TRB Online Resources

- · Research in Progress (RiP) Database
- RiP provides access to more than 10,000 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

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#### National Cooperative Highway Research Program (NCHRP) Synthesis

 New NCHRP Synthesis topics submissions due February, 2015

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# 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:
  - <u>Safety:</u> 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
  - <u>Capacity:</u> Integrate mobility, economic, environmental, and community needs into the planning and design of new transportation capacity





#### **Research Approaches**

- Submission avenues:
  - Synthesis topic NCHRP
  - SHARP 2 Safety
  - Research questions/Problem statements

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# Sample Research Question Tele The purpose of the study is to explore roadway engineering improvements that can be improvement to experiment t







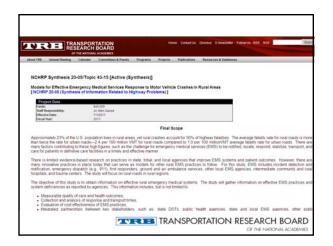




# Problem statement development in progress from 2008-2014

- Development and application of standardized definitions to capture EMS transport data across all agencies.
- · Identifying ambulance fleet mix by state
- Determination of current state based emergency vehicle crash data capture and analysis; police, fire and EMS.
- Identifying the regional essential and optional equipment payload for ambulances
- Evidence for ambulance visibility and conspicuity
- Effectiveness and cost effectiveness of real time driver monitoring feedback devices for EMS services

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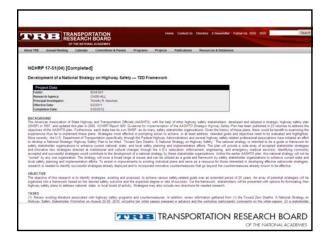


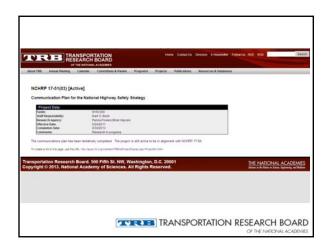


#### **NCHRP 17 - 51**

The Framework developed by NCHRP 17-51 will be a tool that Stakeholders can use to formulate their Highway Safety Plans which integrate EMS, at the National, State, or Local Level. More information about the Framework Project is available at:

 <a href="http://www.strategicsafetyplan.com">http://www.strategicsafetyplan.com</a>







#### 2.3 Review of Subcommittee activities 2014

- EMS Today, 2014
  - INDEMO & Outreach with TRB Summit multimedia info
- EMS World Expo 2014
  - INDEMO & Outreach with TRB Summit multimedia info
- Input to NAEMSP Transport Safety Position Statement

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#### **Subcommittee Meeting** stats

Sure took us by surprise!

- >11,300 downloads of Subcommittee meeting handout
- >50,300 downloads of Synopsis of the 2012 Safety, Systems, Strategies and Solutions Summit handout
- >10,100 Fleet Tech Innovation handout
- >9,200 Standards Update handout

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#### The Safety Systems, Strategies and Solutions Summit Feb 2012

- ~50 onsite lead representatives
- Live online participation with international representation
- 7 focus areas and a panel
- >120,000 downloads of presentation handouts
- Multi-Media 'e-document' with QR tags
- You tube overview

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# 2.4 Sub-committee work program updates:

- 2.4.1 Ambulance Transport Safety Summit April 2015
- 2.4.2 Research Needs Statements Research Topics Database
- 2.4.3 Administrative issues
  - 2.4.3.1 Liaison organizations
  - 2.4.3.2 TRB Changes/Communications/Website
  - 2.4.3.3 Membership/Recruitment
  - 2.4.3.4 2016 TRB Session Topics & Calls for Papers

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# 2.4 Sub-committee work program updates:

- 2.4.1 Ambulance Transport Safety Summit 2015
- Synopsis of 2008, 2009, 2012 Summit resources
- · Focus on: A Road Map to Safety
  - Integrating existing data, knowledge and resources
    - A systems engineering approach to applying safety concepts
  - Data supported practices, policies and standards
    - Fleet operations/transport clinical aspects
  - New technologies
    - Fleets/vehicles/human factors/patient monitoring/communications

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### 2.4 Sub-committee work program updates:

2.4.2 Research Needs Statements - Research Topics Database

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#### **Research Problem Statements**

Developed 3 small and 2 larger project outlines

- 1. Data definitions of:
  - i. ambulance
  - ii. emergency response
  - iii. ambulance crash
- 2. Essential/Optional Ambulance Equipment

What does each state require? Expert panel to identify -:

- i. essential equipment
- ii. optional equipment
- iii. equipment specific to regional needs
- 3. Fleet mix, by state

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#### **Research Problem Statements**

- 2 larger project outlines
- 4. Effectiveness and cost effectiveness of EMS monitoring feedback devices
- Determination of State based emergency vehicle data capture and analysis: police, fire and EMS

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#### 2.4.3 Administrative issues

- 2.4.3.1 Liaison organizations
- 2.4.3.2 TRB Changes / Communications / Website
- 2.4.3.3 Membership/Recruitment
- 2.4.3.4 2016 TRB Session Topics and Calls for Papers

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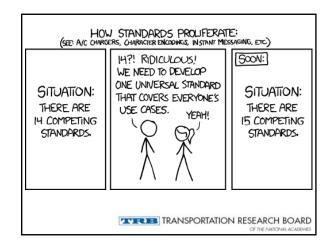
#### 3. EMS National Updates

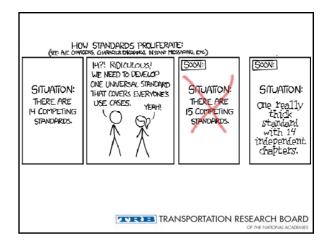
- 3.1 Standards developments in 2014
- 3.2 TIMS
- 3.3 NAEMT Safety Course Update
- **3.4 VFIS**
- 3.5 Federal Projects
- 3.6 New communications technologies

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3.1 2014 Standards developments







#### Standards?

- KKK
- NFPA
- SAE
- ASTM 2020
- NASEMSO MVDR
- CAAS
- CAMTS
- FMVSS
- FMCSA
- · State required ambulance equipment
- And international CEN, ASA, India, Malaysia
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#### **GSA KKK**

- A purchase specification not a safety design standard
- Sunset is extended to Oct 1, 2016



Innovation, Calisboration & Knowledge Transfer www.EMSSafetyFoundation.org



#### The Challenge as We See It

NASEMSO Perspective on Ambulance Vehicle Design

January 16, 2014



#### State EMS Offices' Typical Roles

- Setting EMS educational standards
- Licensure of EMS personnel
- EMS response data collection
- Trauma system regulation
- Licensure of EMS agencies, including requirements for the design of ambulances
- Enforcement, inspections, investigations, sanctions

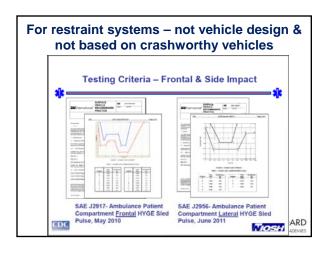


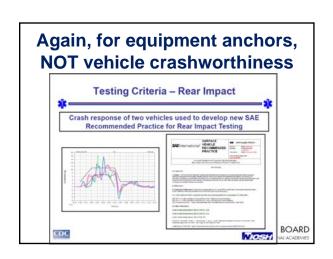
States Regulate the Design of Ambulances

- 14, 500 ambulance services licensed in the US
- State approaches fall into 5 categories: (2012)
  - KKK specs incorporated in whole or part in rule
  - KKK specs in policy
  - Regulate design, but not using KKK specs
  - No design regulation
  - "Other"













# Energy transfer is not a consensus process

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Opinion Consensus
 Vs
 Technical Science

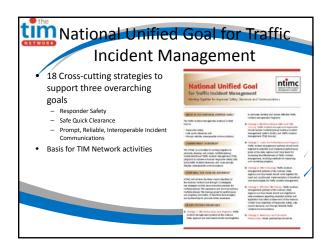
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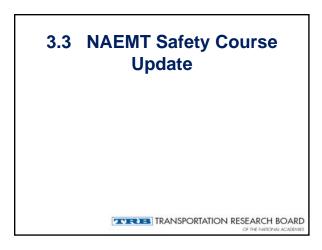
#### 3.2 **TIMS**

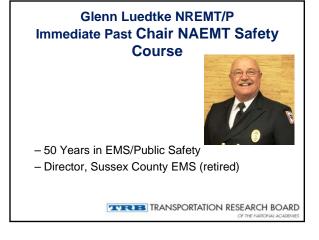
















#### **Course Design**

- One-day program
- Interactive lecture, discussion, group activities
- Case studies using real incidents
- 8 hours continuing education credit (CECBEMS)
- Presented in 8 modules



#### Course Leadership



- Chairman, Mike Szczygiel (Segal)
  - Over 40 years experience in EMS
  - Nationally Registered Paramedic
  - Senior Loss Control Representative, Thomco Insurance
  - Part of the original design team for the EMS Safety Course



#### **Course Revision**

- Revision project in progress
- Jones & Bartlett will produce all course materials
- Increased student participation
- Additional video and new photos
- Rollout planned for EMS World Expo
  - September, 2015
  - Las Vegas, NV
- Remains a one-day course



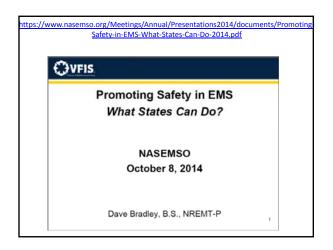
#### **NAEMT EMS Safety Course**

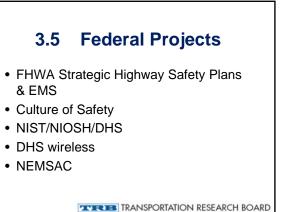
For more information on how to sponsor a course,

- ✓ go to <u>www.naemt.org</u> , click "EMS Safety"
- ✓ call 1-800-346-2368 (1-800-34NAEMT)
- √ email <u>info@naemt.org</u>
- ✓ visit "NAEMT EMS Safety" on Facebook



#### **3.4 VFIS**



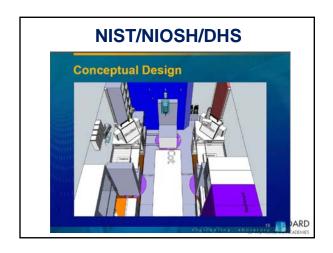




















3.6 New Safety Communication Technologies

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#### **New Tech**

• 36% of Google Ventures' investments in 2014 were in healthcare and life sciences. Upping its funding in the sector from just 9% in 2013, the tech giant plans to continue exploring the area with an emphasis on big data next year. Wall Street Journal

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 Ambulance drones could be saving lives soon! Earlier this year, the Netherlands developed a prototype that can deliver a defibrillator to a patient suffering a heart attack. Once it lands, the drone uses live stream video conferencing to connect emergency responders to people on the ground

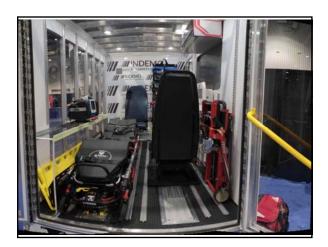
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#### **EMS Safety Foundation's new** demonstration Project: **Ambulance Safety INDEMO 1.0**

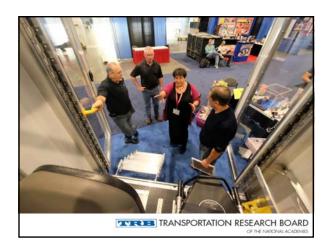
- Designs so that you can do your work with optimum safety and efficiency.
- · Based on state of the art science, practice and input from the world's leading experts in automotive safety and human factors.
- Designs that are cheaper, better, safer.



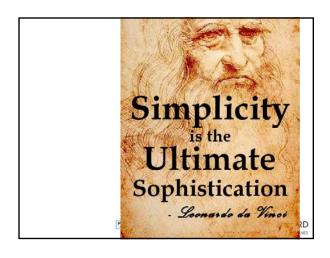
















# Would you like a virtual tour of INDEMO 1.0 or an onsite to visit your site/conference http://www.emssafetyfoundation.org/ INDEMOScheduleForm.htm INDEMOScheduleForm.htm









### Forthcoming ANB10(5) 2015 Plans:

- White paper focusing on Technical Science underpinning guidelines and standards
- · Minitopic seminars
- Preparation for Safety Systems
   Strategies & Solutions Summit April 2015
- Enhance social media foot print



# Proposed mini session topics

- Data driven transport related practices:
  - Fleet
  - Clinical
- Pediatric/Neonatal transport safety
- Motorcycles in EMS

TRANSPORTATION RESEARCH BOARD
OF THE PARTICIPAL ACADEMIES

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#### **New Business**

- · New projects
- Task Force?

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#### Any questions or comments?