WELCOME to Rettmobil!
to the EMS Safety Foundation
at a PC/Laptop near you, June 28, 2012
Innovation, Collaboration and Knowledge Transfer and Policy
Starting at 4pm USA EDT today
Please do log in for sound checks from 3.00 pm

Rettmobil 2012, NFPA 1917,
EMS Safety Culture Meeting,
NIST, White House initiatives
Update

Nadine Levick, MD MPH
Research Director, EMS Safety Foundation
CEO, Objective Safety
New York, NY

Background:
- EMS Safety Foundation has been established to fill a gap in
  - technical knowledge transfer
  - practical interdisciplinary R & D
  - evaluation and implementation of system safety enhancements for EMS and Medical Transport
- It is a not-for-profit institute

In a nutshell
- EMS Safety Foundation is a not-for-profit multidisciplinary virtual think – tank and test bed for safety innovation and knowledge transfer
- It is a virtual network integrating the end users and the technical experts
- A tool to enhance the safety of delivery of EMS services

Mission
- This is a team of like minded innovators across EMS Medical Transport and a number of technical disciplines, who share the common mission of enhancing the safety of EMS delivery for all involved by promoting and advancing EMS safety innovation, collaboration, research, knowledge transfer, education and safety information dissemination

Innovation
Collaboration
Knowledge transfer
R & D
“Ripoff and Duplicate”

- Avoid reinventing the wheel at all costs
- Where are the best practices that we need to transfer knowledge from

Webinar Basics

Today’s Webinar is recorded!
The presentation and all comments typed in the text box will be available for viewing via the www.EMSSafetyFoundation.org web site within 72 hours

Today’s Webinar

- Will cover -
  - Retrimobil 2012 Webinar and First Few Moments Podcast
  - iRescU project: Global AED Scavenger Hunt
  - White House Public Safety Data Initiatives
  - Health Data Palooza, DC update
  - Forthcoming NIST Meeting
  - NFPA 1917 Update
  - EMS Safety Culture meeting
  - New EMS.gov web site
  - New info for ANSI Z.15 Fleet Standard
  - National Occupational Research Agenda (NORA) Public Safety Sector Council meeting
  - Social networking and you – etags and twitter
  - Forthcoming EMS Safety Workshops

Communication Technology trends
The 2012 TRB EMS Safety Summit
print this page & your smart phone will play the 8 sessions from the eTags! (even in B&W)
• Opening Address: A.J. Heightman
• Safety Developments Update – N. Levick
• Research needs assessment forms explained – E. Frazer
  1: Data and Recent Initiatives
  2: Transport, Human Factors - Bridging Diverse Disciplines
  3: Testing and Standards
  4: New systems safety technology solutions & telematics
  5: Fleet management strategies
  6: Innovative Vehicle Design
  7: Operationalizing Safety
  8: Panel: How to optimize the safety of your existing fleet
Wrap up – from Prof. Art Cooper

Meeting with NIST July 12, 2012
so please forward any queries re: NIST Program
EMS System of Safety

- Data capture and analysis
- Transport, Human Factors - Bridging Diverse Disciplines
- Testing and Standards
- New systems safety technology solutions & telematics
- Fleet management strategies
- Innovative Vehicle Design
- Operationalizing Safety

EMS Safety Culture is a key component in the EMS System of Safety and totally dependant on sound technical safety input

- Draft 3.1
  - Focus to engage leaders in safety?

http://www.emscultureofsafty.org/

? Perceptions are reality....

June 2012 JEMS cover issues

Rettmobil 2012 – May 9-11th
Live from Rettmobil 2012
Public Access – www.EMSSafetyFoundation.org

http://www.emssafetyfoundation.org/RecordedRettmobil2012LIVEpublicWebinarlogininfo.htm

EMS Safety Foundation Live @Rettmobil 2012 on YouTube!!
Click here http://www.youtube.com/watch?v=pR_iZ7ZUanI or
or scan the eTag below with your mobile device to see Live @Rettmobil 2012 Webinar on You Tube

Extrication Demo

Click here http://www.youtube.com/watch?v=pR_iZ7ZUanI or scan the above eTag to see Webinar on You Tube
Clever pull out shelves to protect your back

Patient securing the European way

Seating and layout innovation

The newest Oslo Ambulance
Based on technically sound scientific principles
HELP SAVE LIVES
Be part of the AED geoLocationChallenge!
FIND an AED
Save a Life
iRescU.info/AEDupload.htm

CPR/AED Support www.iRescU.info
AED Scavenger Hunt YouTube Video
http://www.youtube.com/watch?v=jgpMD4ZpGyE

Public Safety Data Jam
National Transportation Week
Safety Data Initiative

Inaugural Public Safety Data Jam
May 16, 2012 at the White House

EMS Safety Foundation @WhiteHouse with Todd Park
CTO of USA

Health Data Palooza
http://www.hdiforum.org/
http://www.ems.gov/new web site

NORA Public Safety Council


Newly Revised ANSI/ASSE Z15.1-2012 Standard is now available.

- These practices are designed for use by those having the responsibility for the administration and operation of motor vehicles as a part of organizational operations.

Newly revised z15.1

- Safety professionals have historically used the Z15.1-2012 standard as a general minimum guideline to address safe operations of motor vehicles for a way variety of work environments.
- Topics covered in the standard include:
  - Definitions
  - Management, leadership and administration
  - Operational environment
  - Driver considerations
  - Vehicle considerations
  - Incident reporting and analysis
Z15.1 Technical Brief

http://asse.us2.list-manage.com/track/click?u=c607f19210bc178f7ceb6d716&id=a311862ffec&e=8007d740a6

ASSE/ANSI Z15.1 2012


NFPA 1917

http://www.nfpa.org/AboutTheCodes/AboutTheCodes.asp?docnum=1917&tab=docinfo#

Current status
NFPA 1917 New Requirements vs KKK 1822

Effective Date

- Applicable to ambulances contracted for after January 1, 2013
- Was voted on this month, June 13th
- To be issued August 9th, 2012
- Effective August 29th, 2012

NFPA Update- June 13th Meeting

Process changes in contrast with KKK
- Greater level of documentation required from the ambulance builder to the purchaser.
- Third-party certification qualifications.
- Certifications of compliance
  - Optical warning systems
  - Sirens
  - Electrical load analysis
  - Slip resistant surfaces
- Statement of Exceptions

NFPA 1917 General Requirements
- Personnel Protection
  - Guards, shields, sharp edges
  - Electrical hazards
  - Exhaust guarding
- Safety sign durability and design
- Carbon Monoxide detector
- Component protection
  - Heat, sharp edges, vibration

NFPA 1917 Ambulance Performance
- Performance at high altitudes
- Ambient temp -20 to 110 F
- Interior component capability 32 to 95 F
- Top speed not to exceed 77 mph

NFPA 1917 Seat Belt Use Indicator
- 6.26.2 A seat belt warning system shall be provided.
- 6.26.3 The warning system shall consist of an audible warning device that can be heard at all seating positions designed to be occupied while the vehicle is in motion and a visual display visible to the driver showing the condition of each seating position.
- 6.26.4 The warning shall be activated anytime the parking brake is released or the automatic transmission is not in park.
- 6.26.5 The seat position display shall indicate conditions in accordance with Table 6.26.5 Display for Seating System
- 6.26.6 The display indication shall be permitted to consist of lights, text, graphical indicators, digital displays, or other methods.
- 6.26.7 The warning system shall not show an affirmative indication unless it has determined that the seat was occupied before the seat belt was buckled.

Visibility/Conspicuity
- 4" reflective stripe - 25% of the front width
- 4" reflective stripe - 50% of the sides width
- 6" reflective chevron - 50% of the rear
  - Must be red and either yellow, fluorescent yellow, or fluorescent yellow-green
- Warning lights to be red, yellow, or white
  - No yellow on front if in gear, no white on rear when in gear or on any zone when parked
  - Cannot exceed 40A and must include 12 red, 1 clear, and 1 amber (if using KKK standards)
  - Different color options if using an NFPA alternative
Lighting and Electrical

- Interior and ground lighting
- Low voltage electrical
  - New requirements borrowed from NFPA 1901

NFPA 1917 Testing Criteria

- AMD Standards incorporated
- Side load testing types I and III
- All adjustable seats must be dynamically tested to SAE J2917
- Seat belts for side facing seats tested to FMVSS 210

Standby for a comprehensive EMS Safety Foundation NFPA 1917 Webinar

- To be held Mid August after August 9th issuance date

International Ergonomics

IEA Triennial world congress

- 2012 Brazil – Recife
- Mornings – workshops
- Days – plenaries & papers

- Overview
  - Diverse
  - Ambulance not previously featured
  - 2012 presented as an opportunity to highlight ergonomics within ambulance
  - Demonstrable interest
  - Lead to various invitations to present
Three half day workshops (of 15)
1. Patient handling in ambulance
2. Ambulance design
3. ViSafe – movement measuring technology from dorsaVi

Outcomes
- Recognition of the contribution that ergonomics can make
- Increasing global interest in ambulance
- Identification of the EMSSF work in North America
- Have been invited to present on this topic in Iceland in 2013 at the Nordic Ergonomics annual meeting

Snapshots of Brazilian Ambulances
- Sprinters preferred
- Conventional (non preferred) layout
- Motorcycle response also
- Precedent group for upcoming World Cup in soccer.
- Unusual personal protective vest for motorbike paramedics. Rapidly inflatable chambers in jacket.
Science behind Policy

- “For successful technology, reality must take precedence over public relations, for Nature cannot be fooled.”

Richard P. Feynman 1988

EMS World Expo
hands on EMS Safety Foundation Workshop Nov 2

http://www.emsasia.org/
In Dec 2012 – ASHGATE will publish a CAMTS reference entitled:
“Safety and Quality in Medical Transport Systems: Creating an Effective Culture”

**Time line**

**June 2012 – November 2012**
- NFPA 1917 issued, Aug 9th, Effective Aug 29th,
- EMS Safety Foundation special NFPA 1917 Webinar Mid-Aug
- EMS Asia 2012 Safety & Quality Sept 10-11, Penang
- EMS Safety Foundation Webinar, mid-Sept
- EMS World Expo, October 29- Nov 2, 2012, New Orleans
- EMS Safety Foundation EMS Expo Workshop, Nov 2, 2012, New Orleans

**Thank you!**

**Any Questions??**

an electronic recording and a .pdf handout of this presentation awaits EMS Safety Foundation Members online

www.EMSSafetyFoundation.org