

EMS Safety Foundation,
at a PC/Laptop near you, January 8th, 2008
Interdisciplinary R. & D, Knowledge Transfer and Policy

The EMS Safety Foundation – Logistics and Tasks



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

Welcome to your outline for getting started as part of the Innovation Consortium, Technical Expert Panel or Affiliate Member and the logistics and tasks that are involved in working with the EMS Safety Foundation

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

Raise Hand

Text messaging

Type in your name and location

The mic

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

Line tool

Today's Webinar is recorded!

The presentation
and
all comments typed in the text box

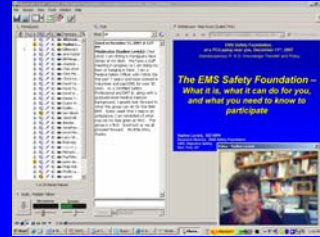


will be available for viewing via the
www.EMSSafetyFoundation.org
web site within 24 hours

Today's Webinar

- ▶ Will cover the logistics of what is involved in being part of the EMS Safety Foundation and what the primary project tasks encompass

For background for this afternoons Webinar please review the
EMS Safety Foundation
Intro Webinar from December 11, 2007
www.EMSSafetyFoundation.org
(December 11th Webinar password was 'teamwork')



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

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.

Goals

- ▶ The primary goals of bringing this unique group of folks together are to:
 - ♦ Share pooled best practices
 - ♦ Integrate key technical expertise to address common challenges
 - ♦ Advance new multidisciplinary research projects
 - ♦ Translate safety technology from appropriate related technical areas to EMS
 - ♦ Knowledge transfer from research to practice

Why now?

- ▶ Operating optimally in a transportation environment that is largely devoid of specific safety standards for the hazards and risks present
- ▶ Bridge the gap between what technical information exists and what is accessible and applied to EMS

Structure of the EMS Safety Foundation

- ▶ Not for Profit
- ▶ Board of Directors
- ▶ Advisory Board
- ▶ Innovation Consortium
- ▶ Technical Expert Panel
- ▶ Affiliate Members
- ▶ Corporate Sponsors
- ▶ Webinar collaboration platform
- ▶ R & D
- ▶ National/international good practice fact finding

Advisory board

- ▶ Covering the following disciplines
 - Injury/Policy
 - Injury Research/Technology
 - Project management/research
 - Transportation
 - Automotive Safety/Crashworthiness
 - Road Safety
 - EMS Certification
 - EMSC
 - EMS Medical Direction
 - EMS Legal Issues
 - Hospital EMS
 - Volunteer
 - Fire EMS
 - Private EMS
 - Academics Disaster Management
 - Academics EMS
 - Manufacturing Industry
 - EMS Logistics
 - Insurance Industry
 - Public Health

Participation and membership

- ▶ Basically three dimensions
 - ◆ Innovation Consortium
 - ◆ Technical Expert Panel
 - ◆ Affiliate

Membership

- ▶ To keep the system as effective as possible and sustainable there is a dues structure
- ▶ It is designed to be equitable and prorated to the nature of the service

Who is a good fit for the IC?

- ▶ A service providing EMS and/or medical transport
- ▶ Focus on safety innovation
- ▶ From small volunteer to large private or municipal

Who is a good fit for the TEP?

- ▶ Technical experts in fields related to the safety of EMS ie.
 - ◆ Engineering
 - ◆ Human factors
 - ◆ Transportation
 - ◆ Public Health
- ▶ Some members of the IC will also have expertise to participate in the TEP in addition to their role in the IC

What's in it for you?? As part of the Innovation Consortium..

- ▶ Data driven answers to the questions you need answers to now
- ▶ Rapid access to state of the art safety information
- ▶ Myth busting of the myriad of fixes out there
- ▶ Practical access to the experts in the fields beyond what we do
- ▶ AVOID REINVENTING THE WHEEL

What's in it for you?? As part of the Technical Expert Panel..

- ▶ Collaborate in a unique knowledge transfer environment
- ▶ Direct access to the issues that warrant your expertise
- ▶ Unique opportunities for R & D

What's in it for you?? As Affiliate Members..

- ▶ Opportunity to receive an annual update on IC and TEP activities
- ▶ Access the Affiliate Members area of the website
- ▶ Opportunity to forward your safety issues to the IC and TEP

A few basic ground rules

- ▶ The access to this consortium is limited by the available technology and by what is a realistic and manageable group size.

How it works

- ▶ Participation in and membership of the Innovation Consortium and the Technical Expert Panel is by invitation and EMS Safety Foundation Board approval only
- ▶ Open membership is available for a general Affiliate membership of the EMS Safety Foundation as of end January 2008
- ▶ Corporate sponsorship, involvement and participation is subject to Board approval

Passwords are NOT transferable

- ▶ Any participants utilizing or providing a transferred password without the authorization of the EMS Safety Foundation Executive Director will be excluded both from the EMS Safety Foundation Innovation Consortium, Technical Expert Panel and also from participating as an Affiliate member –
- ▶ There are no exceptions to this rule.

IC What's involved

- ▶ Register interest
- ▶ Complete preliminary IC interest form
- ▶ Once approved - Get login for membership software
- ▶ Membership annual dues – pro rata/service size
- ▶ Complete comprehensive service profile
- ▶ Time commitment dependant on your focus
- ▶ Several Webinars covering priority areas /year
- ▶ Get a passport to prepare for May field trip
- ▶ Give and take

Preliminary IC Interest form

The EMS Safety Foundation Registration of Interest to Participate in the Innovation Consortium

If you would like to Register your interest to participate in the Innovation Consortium of the EMS Safety Foundation, please complete this form, by both forwarding it to us, and to the opportunity to have you participate in this new forum for enhancing the safety of EMS and developing new ideas and practice innovation.

Name:

Company:

Location:

No. of Ambulances:

No. of Ambulants:

Type of Service (Ambulance, private, municipal):

Phone:

E-Mail:

Please Confirm E-Mail:

Would you like to be placed on an email list to be notified of developments and new initiatives?
 [Please Select One]

Please note: Your information and details will not be used for any other purpose and will not be shared with any other organizations.

How did you find the EMS Safety Foundation?
 [Please Select One]

Comments/Questions:

[Submit My] [Clear Form]

Technical Expert Panel What's involved

- ▶ Register interest
- ▶ Forward resume
- ▶ Once approved - Get login for membership software
- ▶ Dues only for corporate members
- ▶ Get a passport to prepare for May field trip
- ▶ Give and take

Preliminary TEP Interest form

The EMS Safety Foundation Registration of Interest to Participate in the Technical Expert Panel

Should you be interested to participate in the Technical Expert Panel please complete the form below and we'll get back to you as soon as possible. Should you wish, forward your bio/sketch and CV below in consideration for your participation. If you have any questions regarding the EMS Safety Foundation, please contact us by e-mail: EMS.SAFETY.FOUNDATION@GMAIL.COM. We look forward to hearing from you, and to consider having you participate in this new forum for enhancing the safety of EMS and developing new ideas and practice innovation.

Name:

Company:

Professional area:

Phone:

E-Mail:

Please Confirm E-Mail:

Attach Bio/sketch and CV [here](#)

Would you like to be placed on an email list to be notified of developments and new initiatives?
 [Please Select One]

Please note: Your information and details will not be used for any other purpose and will not be shared with any other organizations.

Corporate involvement

- ▶ Register interest
- ▶ Complete online profile of their company
- ▶ Demonstrate a corporate focus on safety issues
- ▶ Once approved - Sponsorship plan negotiated with opportunity for involvement on the Technical Expert Panel
- ▶ Get login for membership software

Preliminary Corporate Interest form

The EMS Safety Foundation Registration of Interest to Support the EMS Safety Foundation

If you have any questions regarding the EMS Safety Foundation, please contact us by e-mail and we'll get back to you as soon as possible. We look forward to hearing from you, and for having you participate in the sponsorship of this new forum for enhancing the safety of EMS and developing new ideas and practice innovation.

Name:

Company:

Company's Interest or Activity in Emergency Services:

Head Office Location:

Phone:

E-Mail:

Please Confirm E-Mail:

Would you like to be placed on an email list to be notified of developments and new initiatives?
 [Please Select One]

Please note: Your information and details will not be used for any other purpose and will not be shared with any other organizations.

Affiliate Members

- ▶ Register interest, complete online form
- ▶ Login will be forwarded
- ▶ Nominal annual dues
- ▶ Access to Affiliate Members section of the web site
- ▶ Access to an annual update No active involvement with IC or TEP
- ▶ Can forward queries to the EMS Safety Foundation for consideration by IC & TEP

Affiliate Members Interest form

The EMS Safety Foundation
Registration of Interest to Join as an Affiliate Member

If you are interested to join the EMS Safety Foundation as an Affiliate Member, we look forward to hearing from you, and to having you participate in the new forum for enhancing the safety of EMS. Please complete this form and Membership info will be forwarded to you. Membership for Affiliate Members begins in late January 2008.

Name:

Company:

Phone:

Location:

E-Mail:

Please Confirm E-Mail:

Would you like to be placed on an email list to be notified of developments and new initiatives?
[Please Select One] [--->>>]

Please note: Your information and details will not be used for any other purpose and will not be shared with any other organizations.

How did you find the EMS Safety Foundation?
[Please Select One] [--->>>]

- ▶ All participants will be required to share some basic information regarding their professional or operational environment so that their priorities can be supported

Real world answers to real world questions -

- ▶ What features will enhance safety of my new vehicle purchase?
- ▶ What color scheme do I want on my vehicle to make it safest?
- ▶ Do I need a helmet, and if so which one?
- ▶ What policies offer the safest system?
- ▶ How do I get my team to address safety issues?
- ▶ What data should I collect when something goes wrong, and how to analyze it?

R & D

Ripoff and Duplicate

Limitations of the Technology

- ▶ Realities of a workable consortium
- ▶ eRoom capacity
- ▶ Logisitcs

Next stage

- ▶ Next Webinar is for IC/TEP Members only
- ▶ 8 week period for Membership registration
- ▶ That Webinar content will be confidential and accessible to Advisory Board, IC and TEP members only

All IC and TEP members access

- ▶ Information shared in the Webinars
- ▶ Sharing best practice and challenges

Importance of Confidentiality

- ▶ Want to maintain confidentiality so that folks are comfortable to share both their opportunities and their challenges

Web site –

- ▶ General and Members only areas
- ▶ Reflecting what the EMS Safety Foundation is doing and who you are

Web site info

- ▶ Once you have your secure login -
- ▶ There will be a portal to submit and share information, and images of your service
 - ♦ identified for public viewing
 - ♦ for sharing on the 'members only' section of the Web site

Submit top 5 Safety areas of focus

- ▶ Submit your 5 priority areas of focus in EMS Safety

The EMS
Safety
Foundation

Please Submit Your Top 5 Priority Safety Areas
Here:

We look forward to hearing from you, and to having you
participate in this year's Round for addressing the safety of EMS.
Please complete the list to bring your concerns to the attention
of the EMS Safety Foundation Innovation Consortium and
Technical Expert Panel.

Priority 1: _____

Priority 2: _____

Priority 3: _____

Priority 4: _____

Priority 5: _____

Name: _____

Organization: _____

Email: _____

Please Confirm & Mail: _____

Please note: Your information and details will not be used
for any other purpose and will not be shared with any
other organizations.

Big issues are

- ▶ Transport
 - ◆ Vehicle
 - ◆ Vehicle operations
 - ◆ Scene
- ▶ Patient handling
- ▶ Equipment
 - ◆ Protective and other

Some Priority Project Tasks

- ▶ Emergency Vehicle Operations Statement
- ▶ Vehicle Event Data Capture Forms
- ▶ Vehicle Safety Design Innovation
- ▶ Provider Safety and Protective Equipment

Meet some of your collaborators

Prof. Raphael Grzebieta BE, M.Eng.Sci., PhD – Technical Expert Panel

- ▶ 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 modeling 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, roll-over and roadside barrier crashes, and numerous accident reconstruction analyses for insurance companies, legal firms, and for criminal and coronial inquests.



John Russell – Advisory Board

- ▶ Emergency Medicine physician and Medical Director of Cape County Private Ambulance Service



Michael Flanagan PhD – Technical Expert Panel

- ▶ Dr. Michael Flanagan is a research associate professor in UMTRI's Human Factors Division where he is involved in research on the human factors aspects of driving



Jon Swanston – Innovation Consortium

- ▶ Executive Director, Little Rock Arkansas Metropolitan Emergency Medical Services



Time line

Dec 2007-June 2008

- ▶ Gathering of membership information and profiles
- ▶ Jan 16th TRB meeting, DC
- ▶ March Webinar for IC and TEP members only
- ▶ Review of project areas and timelines
Rettmobil site visit May 14-17th 2008
- ▶ Proceed down project timelines

Interface

- ▶ Primarily via the Webinars, with email exchange
- ▶ TRB and related EMS meetings annually, face to face or virtual
- ▶ International best practice delegation

Knowledge transfer and information sharing

State Strategic Highway Safety Plans

- ▶ Required as part of the SAFETEA-LU legislation
 - ◆ (Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users)
- ▶ Effective October 1st 2007
- ▶ Focus is the 4 'E's'
 - ◆ Engineering
 - ◆ Education
 - ◆ Enforcement
 - ◆ Emergency Medical Services
- ▶ 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

Strategic Highway Safety Plans

► EMS recognition

**Highway Safety Improvement Program:
Strategic Highway Safety Plan Realize Opportunities**

It is a well-known fact that the highway safety industry is constantly evolving. As a result, the industry must continually adapt to new challenges and opportunities. The Highway Safety Improvement Program (HSIP) is a key component of the highway safety program that provides funding to states to improve highway safety. The HSIP is a critical part of the highway safety program that provides funding to states to improve highway safety. The HSIP is a critical part of the highway safety program that provides funding to states to improve highway safety.

Highway Safety Improvement Program

The Highway Safety Improvement Program (HSIP) is a key component of the highway safety program that provides funding to states to improve highway safety. The HSIP is a critical part of the highway safety program that provides funding to states to improve highway safety. The HSIP is a critical part of the highway safety program that provides funding to states to improve highway safety.

Highway Safety Improvement Program

The Highway Safety Improvement Program (HSIP) is a key component of the highway safety program that provides funding to states to improve highway safety. The HSIP is a critical part of the highway safety program that provides funding to states to improve highway safety. The HSIP is a critical part of the highway safety program that provides funding to states to improve highway safety.

Highway Safety Improvement Program

The Highway Safety Improvement Program (HSIP) is a key component of the highway safety program that provides funding to states to improve highway safety. The HSIP is a critical part of the highway safety program that provides funding to states to improve highway safety. The HSIP is a critical part of the highway safety program that provides funding to states to improve highway safety.

► Having access to that technical knowledge supports changes to improve safety practice

Technical information that drives changes in practice

From this..... to this

Policy and practice ignorant of existing technical safety data

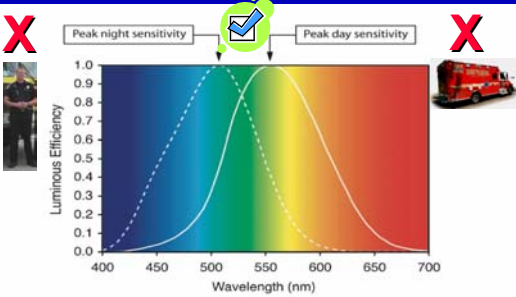


Figure 1. The scotopic (dashed line) and photopic (solid line) luminous efficiency functions, describing the spectral sensitivities of night and day vision, respectively.

Very cool – AND visible!!! But what about those red trucks



Another excellent example - From this to ... this!



- ▶ Operating in an environment where many aspects of safety are still devoid of safety standards – requires technical knowledge and understanding

Next Week's National Academies Transportation Research Board's (TRB) EMS Transport Safety Subcommittee – Washington DC, Jan 16, 2008

Next Steps

- ▶ Communicate your interest to participate by completing the online registration of interest at www.EMSSafetyFoundation.org
- ▶ To be considered for participation in IC
 - ◊ Complete short online form about your service
- ▶ To be considered for participation in TEP
 - ◊ Complete online form & forward your resume
- ▶ For Corporate interest – complete online form
- ▶ General Affiliate Membership software portal open by late January 2008

Then for IC and TEP

- ▶ All those who have completed IC/TEP registration forms will be contacted
- ▶ Membership dues and agreements for IC and those relevant for TEP addressed
- ▶ Next Webinar for IC/TEP Members only
- ▶ IC/TEP Members will be provided:
 - ◊ Full access to members only website area
 - ◊ Links and passwords for each Webinar

Corporate Sponsors

- ▶ Corporate Sponsors who have completed the CS registration form will be contacted to address potential corporate sponsorship plans

Summary

- ▶ 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 EMS service end users and the technical experts
- ▶ A tool to enhance the safety of delivery of EMS services

Thank you! Any Questions??

an electronic recording and a .pdf handout of this presentation awaits you online

www.EMSSafetyFoundation.org

