Welcome to the EMS Safety Foundation at a PC/Laptop near you, 15th March, 2018


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Happy 10th Birthday!!

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 by promoting and advancing EMS safety innovation, collaboration, research, knowledge transfer, education and safety information dissemination

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

R & D

“Ripoff and Duplicate”

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

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, new interface

The “mic”
Raise Hand
Whiteboard tools
Text messaging
use white board tools to mark your location…

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

www.EMSSafetyFoundation.org
Today’s Webinar
Will cover:
- EMS Safety Foundation Safety Leadership Awards
- 2018 Conference Updates
  - EMS Today 2016, NEEMS 2018, DIAC 2018, ECM 2018,
  - A snap shot of 10 years past
- New Frontiers
  - AI and EMS Dispatch
  - Virtual Reality and EMS Training
- INDEMO developments
- ResCU
- Forthcoming 2018 Conferences
  - EMS Europe 2018, Retrmat 2018, EMS World Expo 2018

Happy 10th Birthday

OUR 2018 AWARDS ANNOUNCEMENTS!!

Congratulations to all EMS Safety Foundation 2018 Recognition Awards recipients

In recognition of your outstanding and international approach and focus on global innovation and practice toward enhancing the safety of EMS service for patients, providers and the public

Milestones, many…!

So 2018 …

- Conferences: DIAC, Retrmat, SXSW, AMTC, KDO, SAE, ESV, EIEE, EMS World Expo, AAA, IAMBS, Connected Health
- INDEMO 1.0 and 2.0
- AI-Voice activated
- Virtual Reality
- Wireless and Wearables
- ResCU go live
- New extraordinary funding opportunities
- More corporate partners
- Broader International reach

2018 EMS Safety Foundation Innovation and Practice Award

Congratulations to:

- Dubai International Ambulance Conference – DIAC

Dr. Abdul Salam Al Madani, Executive Chairman, DIAC, and Khalifa Al Darni DCAS, the leadership and organizers DCAS/DIAC

- Dubai International Ambulance Conference - DIAC

Dr. Abdul Salam Al Madani, Executive Chairman, DIAC, and Khalifa Al Darni DCAS, the leadership of DIAC

- DCAS - Dr. Omar Al Salak, Essa Bin Redha, Dr. Tanweer Ahmed Yaqoob, Khawla Ahmed AlKayed, Noura Abdul Al Baloshi, Fatima Mohammad Al Raie, Maysyad Ibrahim, Hassan Abu Malhoo, DIAC - Mohammed Osman, Jennie Robin and Bhangoo Wijethunga

In recognition of your outstanding and international approach and focus on global innovation and practice toward enhancing the safety of EMS service for patients, providers and the public

Our 25th Birthday

2016 - Rick Lewis, EMS Chief, South Metro Fire/EMS, Colorado
2014 - Neil Blackington, Boston EMS
2013 – Bruce Evans, Fire Chief Upper Pine River District
2012 – Eric Henry & Bill McClincy, Joint Meadville Ambulance Service & EMMCO Northwestern PA Regional
2011 - Kurt Krumperman, Albuquerque Ambulance Service, New Mexico
2010 – Glenn Luedtke Sussex, Delaware EMS Chief (retired) and NAEMT Safety Course Director
2009 – Charlene Cobb, Sunstar EMS, Florida
2008 - Anchorage Fire/EMS  - Jim Foster, Robert St. Clair, Mike Crotty, Mike Levy and Soren Threadgill

Dubai International Ambulance Conference – DIAC

Khalifa Al Darri, CEO, DCAS, and leadership of DIAC

Andi, telepresence Robot 1.0 deployed nationally and internationally 2015, 16, 17
- Voice activated Commands for INDEMO Project 2015,16 and 17
- National Academies TS-8 Summits 2016, 08, 12
- Retrmat Delegate 2016 – 2017
- Interscholl delegate 2015
- Mediaex Voice Zero on SETONP Project Phase I funded 2013
- SETONP White Paper released 2015
- iRescu 2nd place, AHA Inaugural Open Innovation Challenge 2014
- iRescu accepted into NYCEDC SBIR Impact Program 2016
- iRescu presented @ Bloomberg Data for Social Good - 2016, 17
- Keynote @ Malaysia EMS Safety Conference 2012
- Keynote @ India EMS Innovation Conference 2013, NEDS 2016
- Plenary @ Dubai International Ambulance Conference 2017, 16
- Above all worked with hundreds of amazing folks all over North America & the world
EMS Safety Foundation Leadership Award presented to Khalifa AlDarri with Dr. Abdul Salam Al Madani - March 21, 2017

W. H. “Bill” Leonard
May 21, 1934 – Nov 11, 2010

- A leader with a key role in the development of ambulance service as it is today – with strong commitment and major contribution to the establishment of the field of EMS safety.
- A mentor to so many.

W. H. “Bill” Leonard
Commitment to EMS Safety Award

- In Bill’s honor the Foundation is recognizing him with a special “Bill Leonard Commitment to Safety Award” which will be given annually to recognize an individual who has made a unique contribution and commitment to EMS safety. He is deeply missed by us all.

2018 W. H. “Bill” Leonard Commitment to EMS Safety Award Recipient

- Carl Craigle
  Chief Paramedic - Platte Valley Ambulance Service
- Involved in numerous projects to enhance EMS Safety over his whole career

2018 EMS Safety Foundation Leadership Award

- Dr. Subroto Das,
  Managing Trustee and Founder, CEO Lifeline Foundation, and NiEMS Founder, India
- 2014 Khalifa Hassan AlDarri, CEO, Dubai Ambulance Corporation, UAE
- 2014 Edgar Escabedo, American Ambulance Fresno
- 2014 Chief Jodie Hettrick, and Safety Committee, Anchorage Fire Department
- 2013 Peter Dworky and Monica, NJ
- 2012 Japanese Paramedic Association
- 2011 NAEMT Safety Course
- 2010 Recipient Jim Swartz and Careflite, Texas
- 2009 Recipient Matt Cosman and New Brunswick EMS


Subroto Das, man behind unified helpline number on highway gets Padma Shri

Carl Craigle EMT-P, Chief Platte Valley Ambulance, CO

EMS Today 2018 and almost every EMS Safety presentation for me

Dr. Subroto Das, man behind unified helpline number on highway gets Padma Shri
CNN Hero

NiEMS 2018 – Industrial EMS Conference

And a celebrity too!

2018 EMS Safety Foundation Technical Expert Award
- Cassie DeWitt, Data Scientist, City University of New York – Masters Program in Public Administration, Adjunct Lecturer in Urban Analytics, Advanced Quantitative Methods

Data Scientist- Technical Expert
- Detroit Fire Department's first data scientist. Implementing a tri-fold analytics program that combined intelligence, operational and geospatial data science. Her role led to improved response times, spatial reallocation of apparatus, implementation of machine learning software and creation of data-driven culture
- Data Scientist at Ford Motor Company (TEKsystems)
- Recognized by the American Statistical Association and as a member of LinkedIn's Top Ten Most Innovative Government Practitioners.

2018 EMS Safety Foundation Industry Partnership Award
- USSC Valor Seating, Jeff Krueger
  Director, Product Development, USSC Group

Congratulations to all EMS Safety Foundation 2018 Recognition Awards recipients
- EMS Safety Foundation Innovation and Practice Award – Dubai International Ambulance Conference, DIAC - Executive Chairman, Dr. Abdul Salam Al Madani and DIAC/DCAS leadership
- The "Bill" Leonard Commitment to EMS Safety Award – Carl Craigle, Chief Paramedic - Platte Valley Ambulance Service
- EMS Safety Foundation Leadership Award – Dr Subroto Das, Managing Trustee and Founder, CEO Lifeline Foundation, India, NiEMS Founder
- EMS Safety Foundation Technical Expert Award – Cassie DeWitt, EMS Data Scientist
- EMS Safety Foundation Industry Partner Award – USSC Valor Seating, Jeff Krueger

Leading Change
- Implementation & sequencing for change
  1. Build a coalition
  2. Build for the change
  3. Create motivation
  4. Identify vision
  5. Communicate the vision
  6. Create a plan for change
  7. Secure a powerful coalition

Gartner's Hype Cycle 2008
- Innovation adoption stages:
  - 0: less than 2 years
  - 1: 2-5 years
  - 2: more than 5 years
  - 3: 10+ years
A lot has happened in 10 years

Communication Technology trends

Smartphone navigation devices

EMS Safety’s frontier -
- the interface of disruptive new tech and operational practice at all levels of the EMS system and across disciplines

Sharing innovation

TRB EMS Safety Subcommittee
TRB ANB10(5) Summit
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
  - Youtube overview

Funded by Medevac Foundation

Innovative + Safer/Usability/Cost

NHTSA Ambulance Safety Infographic
http://ems.gov/pdf/NHTSAOEMSAmbulanceInfographic.pdf
Innovation Yes Now...

Attended workshops
Of all types
From Allan’s iphone in Connecticut

Ambulance Safety Innovation
Design Module 1.0
www.INDEMO.info
the future concepts you can have right now!!!
Better, safer and cheaper

Self Guided INDEMO tour

The solution
- Optimized design of ambulances so you can reach your patient and equipment without getting out of your seat
  - Forward and rear facing seating
  - A laterally sliding stretcher platform
  - Equipment stored on the curbside wall
Configurable

Schedule an onsite and/or telepresence session with
INDEMO and Andi

http://www.emssafetyfoundation.org/INDEMOScheduleForm.htm
and tweeted…

EMS Safety’s frontier -

• the interface of disruptive new tech and operational practice at all levels of the EMS system and across disciplines

Virtual reality EMS training

Virtual Education Systems - VES

VRpatients - Web / VR / AR
• Game Based Patient Management
  • EMS Training and Medicine
  • Pre - Employment Assessment
  • Post - Employment Training
  • Standardized Competency Testing
  • Simulation Lab In a Backpack
  • Re - Construct Your Patient Simulator
  • Seeking national and state accreditation
  • CAPSE
  • National League of Nursing

VR – CPR training
http://dualgoodhealth.com/info/

VR – MCI
RealResponse.com.au

Highly Customizable
Web / VR / AR
• Add Questions and Answers
• Add 12 Lead ECG, X-Ray, Ultrasound, MRI, Blood Work
• Physiological Model
• Pediatric, Adult and Geriatric Patients
• Content Areas
  • OB/GYN
  • ACLS
  • BLS
  • Trauma (coming soon)
VR EMS violence training

- Ambulance Vic, Feb 2017
  - All Ambulance Victoria paramedics will take part in virtual reality training to better protect them from violence as they respond to medical emergencies.
  - Ambulance Victoria is using Virtual Reality to help paramedics manage violence and aggression in the workplace. For more details visit www.globalfrontline.com.au
  - https://www.youtube.com/watch?v=lQhxrF5tvFA
Wearable tech..

Soterawireless & Intel’s Eric Dishman

http://www.visimobile.com/visi-product-info/

Clever fleet management tools

Telematicus

A smart phone App that is a safety tool

Telematicus

Vehicle database
- Individual vehicle data
- Fleet mileage collection/Checklists
- Link to other systems (SAP, Fleet)

Maintenance & Service Plans
- Repair history & scheduling
- Action planning

Reporting
- Expert level for manipulation
- Benford scores, Crystal Reports
- Direct feedback
DCAS – AI Triage Tool

3x safer than NEWS

AI and EMS Dispatch

Cardiac Arrest.... Engage bystanders!

www.iRescU.info
Cardiac Arrest the Cloud and the Crowd

Community Engagement - Crowdsourcing

AR assisting to guide your smart phone to a validated crowdsourced AED
Unmanned Ambulance drones

January 18, 2018

Manned Drones

eHang passenger drone

? The ambulance of the future

First passenger drone makes its debut at CES

Urban Aeronautics – vertical take off drone

The ambulance response vehicle of the future?

Bloomberg D4Gx

Data for Good Exchange 2016

Data for Good Exchange 2017

Manned Drones

manned drone over terrain

Unmanned Ambulance drones

eHang passenger drone
Europe – EMS 2018
April 16-18 www.emseurope.org/

Join us @Rettmobil May 16-18
http://www.emssafetyfoundation.org/Rettmobil2018interestForm.htm

EMS Week May 20-26, “Stronger Together”
http://www.emsstrong.org/

EMS World Expo 2018
http://www.emsworldexpo.com

Time line
March 2018 – October 2018
- EMS Europe 2018 – 16-18 April, Copenhagen
- Rettmobil 2018, 16-18 May, Fulda, Germany
- EMS Safety Foundation Live from Rettmobil Webinar, 17 May
- EMS week 2018, May 20-26
- EMS World Expo 2018 – Oct 29 – Nov 2, Tennessee

Innovation
Collaboration
Knowledge transfer

Thank you!
Any Questions??
an electronic recording and a .pdf handout of this presentation awaits you all online!
See your next Innovation Consortium bulletin