



**THE
MOST**

PRESSING ISSUES

**FACING SYSTEM
SAFETY**



BRIEFINGS AND PANEL DISCUSSION

**PRESENTED BY THE
SAE INTERNATIONAL G-48 SYSTEM SAFETY COMMITTEE
AT THE
2015 INTERNATIONAL SYSTEM SAFETY CONFERENCE**

San Diego, CA – 27 August 2014



What is the G-48 Committee?

- Founded in 1966 under (then) EIA
- Mission is to compile, develop, improve, and publish best practices in the discipline of System Safety
- Membership includes System Safety experts from Industry, Government, Military, Liaison Orgs.
- Meets 3x/year – Winter, May, and late summer (during Int'l System Safety Conference)
- Previous Parent Organizations: EIA, GEIA, ITAA, TechAmerica
- Transfer to SAE International announced 7/10/13



Background and Overview of this Panel

- Born from an Action Item at G-48 Meeting No. 129, August 2011, Las Vegas
- Originally intended to be a tutorial on Best Practices, planned for Atlanta conference, 2012
- May 2012 – changed focus to be a panel
- May 2013 (Meeting No. 134) – decided on the “Most Pressing Issues” theme
- First edition – August 2013, Boston Conference (4 panelists)
- Second edition – August 2014, St. Louis Conference (6 panelists)



Presentations

- Risk Summation – *Tom Pfitzer, A-P-T Research*
- Update on NAS-411 – *Linda Thomas, Boeing*
- System Safety in the Rail Industry – *Sue Cox, The SafetyWright Inc.*
- Medical Reliability and Safety – *Clif Ericson, URS Corp.*



Introduction of Panelists (Cont.)

Tom Pfitzer

Founder and President of A-P-T Research, Inc.

Over 40 years in System Safety, Range Safety, and Risk Analysis

19 years' service in the safety career field for the U.S. Army

Senior member of ISSS

Member of the Society of Risk Assessment

On the Board of Directors of the International Association for the Advancement of Space Safety, chairing the Launch Safety Committee





Introduction of Panelists (Cont.)

Linda Thomas

Associate Technical Fellow at Boeing

Defense and Space group (BDS) Chemical Risk Assessment Leader, in Renton, WA

Over 20 years consulting on design for the environment principles for defense and space programs

Served as the system safety SME to the NAS 411 work group

Participates with the International Aerospace Environmental Group on chemical replacement technology issues





Introduction of Panelists (Cont.)

Sue Cox

Specializes in System Safety for rail transit systems

Active member of APTA Rail Safety Committee

APTA Control and Communications Security Working Group participant

Associate member of ASCE 21 Automated People Mover Standards Committee





Introduction of Panelists (Cont.)

Clif Ericson

50 years of experience in system safety, software safety, reliability, and fault tree analysis

Supported NAVAIR system safety on the UCAS and BAMS unmanned aircraft systems

Previously a Senior Principal Engineer for the Boeing Company for 35 years

Served as President and VP of the SSS and as Co-Chairman of the 16th ISSC