



EMERGENCY RESPONSE



# **TECHNICAL COMMITTEE**

Roger Lackore

&

Wes Chestnut



# Subcommittee Leaders

## Aerial/Quint

Jim Salmi  
(E-One)



John Brady  
(KME)



Change

## ARFF

Marty Huffman  
(Rosenbauer)  
Sarah Peck  
(Akron Brass)



## Ambulance

Steve Rowland  
(Demers)  
Mike Franckowiak  
(Akron Brass)



## Body

Will Pilcher  
(Fouts Bros)  
Wayde Kirvida  
(Custom Fire)



Change

## Electrical

John Doperalski  
(Harrison)  
Peter Luhrs  
(SafeFleet)



## Foam

Gregg Geske  
(Waterous)  
Mike Dupay  
(Fire Research)



## Pumps & Plumbing

Doug Miller  
(TFT)  
Mike Sulmone  
(Trident)



## Chassis

Tim Johnson  
(USSC)  
Chris Crowell  
(Cummins)





# FDSOA Support



- ” 2017 Survey Review
- ” 2018 Symposium Location . Scottsdale
- ” 2018 Speaker Schedule in process





# FDSOA 2018

| Title                              | Description  | Presenters  |
|------------------------------------|--|---|
| Apparatus Fluids                   | Engine oil, engine coolant, transmission oil, hydraulic oil. Training on types, additives, why the specs are important, conventional vs synthetic. | Cummins   |
| Apparatus Equipment Weight         | Hands-on detailed class on how to use the weight and cube calculator   | Walter Gahler – Edmonton<br>Roger Lackore   |
| How are you being recorded         | VDRs, Cameras, etc...  | Mike Dupay will get name<br>Steve Rowland   |
| Apparatus Incident Risk Assessment | University of Arizona study  |   |
| Water Monitors                     | Performance, sizing, controls, locations, tactics, wildlands   | Doug Miller   |
| Idle Reduction                     |  | Buddy Caldwell – Charlotte<br>Brandon Mitchel – Durham EMS<br>(Steve Rowland has contact) |
| Corrosion Prevention               |  | E-One and Spartan   |
| Brake Maintenance                  |  | Ask Steve Wilde for presenter   |



# FDSOA 2018

| Title               | Description  | Presenters   |
|---------------------|--|--|
| Foam & CAFS         |  | Mike Dupay<br>Gregg Geske  |
| Pump Maint          |  | Jason Darley<br>Gregg Geske  |
| Aerial Maint        |  | Sutphen?   |
| Ambulance           |  | Steve Rowland  |
| Round Table         | Use Poll Everywhere. Present three apparatus related questions and break the audience into discussion groups. Present answers using Poll Everywhere. | Dave Durstine  |
| Tires               | Tire life cycle management, traction tires,  | Wes Chestnut   |
| Receivers & Anchors | Loads, angles  | Bill Brown – South Metro – Ask him if he could provide a high angle rescue type presenter. |
| Wildland            | Wildland urban interface is changing with climate change. How do your apparatus fleet for new challenges? Fire resistant gels                        | Doug Miller<br>Doug Kelley<br>Tony Watson – Pigeon Forge.                                  |
| Haas Alert          | Traffic pre-emption and internet of things. Future of vehicle to vehicle.  | Corey Haas (Sam has contacts)  |



# Forum Schedule 2017

|        |   |               |               |
|--------|---|---------------|---------------|
| Jan-17 | Big Data in the Fire Service                                | Fire Service  | Paul Darley   |
| Feb-17 | Apparatus Line-Voltage Power Generation and High-Tech Loads | Lighting      | Sam Massa     |
| Mar-17 | NIOSH Publishes New Firefighter Size and Weight Data        | Anthropometry | Roger Lackore |
| Apr-17 | Fire Truck of the Future                                    | Technology    | Wes Chestnut  |
| May-17 | Auxiliary Braking – Picking the Best of all Goods           | Braking       | Roger Lackore |
| Jun-17 | NFPA 1911 Updates   | NFPA          | Roger Lackore |
| Jul-17 | Winch Cables, Wire vs Rope                                  | Winches       | Steve Stein   |
| Aug-17 | Suspension Specification                                    | Suspensions   | Bob Albano    |
| Sep-17 | Layman's guide to Seat Belt Function and Maintenance        | Seat Belts    | Steve Ward    |
| Oct-17 | FDSOA Promotion   |               | Sam Massa     |
| Nov-17 | Getting Involved in the NFPA Process                        | NFPA          | Wes Chestnut  |
| Dec-17 | On-Board Cameras  |               | Mike Dupay    |



# Forum Schedule 2018

|        |   |              |               |
|--------|---|--------------|---------------|
| Jan-18 | Fire Service Statistics                       | Fire Service | Paul Darley   |
| Feb-18 | Headlights                                    | Lighting     | Sam Massa     |
| Mar-18 | History of FAMA Influence on Apparatus Safety | Safety       | Grady North   |
| Apr-18 | SAE Ambulance Recommended Practices           | Safety       | Roger Lackore |
| May-18 | Common Engine Maintenance Mistakes            | Engines      | Chris Crowell |
| Jun-18 | Hose Testing Safety                           | Safety       | Gregg Geske   |
| Jul-18 |   |              |               |
| Aug-18 |   |              |               |
| Sep-18 |   |              |               |
| Oct-18 |   |              |               |
| Nov-18 |   |              |               |
| Dec-18 |   |              |               |



# Hose Bed Capacity Test Standard

## “ Initiative

- “ Create a test standard for determining the hose capacity of a hose bed
- “ Convince FEMSA to use the test method to provide data to apparatus manufacturers.



# NHTSA Compliance

Wed April 26, 2017

Morning:

Chassis Session

Afternoon:

Body & Equipment Session



In-depth classroom style training on NHTSA Recalls and Early Warning Reporting (EWR) Compliance



# EPA Compliance

Training at Firehouse Expo, 2018

- " Tires
- " Air Conditioning
- " Labeling





# Pending Whitepapers

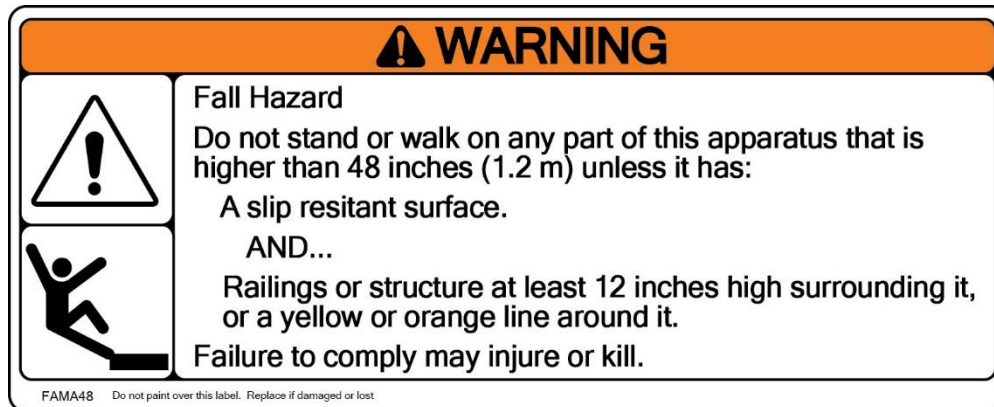
- “ Power Line Contact Position Paper
- “ Hose Testing
- “ Apparatus Size and Weight (Update)





## New Safety Sign Proposals

- “ FAMA48 - Designated Standing and Walking Surfaces
- “ FAMA49 - Ladder Restraint
- “ FAMA50 - Equipment Racks





## **Risk Management Interventions to Reduce Vehicle-Related Incidents and Fatalities**

- “ The goal of this project is to implement and determine the effectiveness of proactive risk-management-based training, administrative, and technological interventions to improve vehicle operation and reduce emergency responder vehicle incidents in career, combination, and predominantly volunteer fire departments.
- “ Wes Chestnut will represent FAMA at June 2017 Meetings



**RESEARCH FOUNDATION**

RESEARCH FOR THE NFPA MISSION



# Fall Tech Committee Meeting Location Change

- “ Fall Tech Committee will **NOT** meet at FRI in August
- “ We **WILL** meet at Firehouse Expo in Nashville in October.





# Apparatus Buyer's Guide

| CATEGORY ▼   | TITLE ▼                                       | SHORT DESCRIPTION ▼  | FILE ▼       |
|--------------|---|--|--------------|
| Buyers Guide | Buyers Guide – Aerial Apparatus               | Aerial devices come in many configurations. Read this guide to help determine the best configuration for your department.  | TC031        |
| Buyers Guide | Buyers Guide – Aux Engine Braking Systems     | Auxiliary Brake System are required on every fire apparatus over 33,000 lbs gross vehicle weight. This guide describes the four basis types of brake and the advantages of each.   | TC033        |
| Buyers Guide | Buyers Guide – Foam Systems                   | This presentation covers the three basic steps for specifying a foam system on your next apparatus.  | TC030        |
| Buyers Guide | Buyers Guide – Pumps                          | Water pumps types and capacities are described in this guide to help determine the right specifications for new apparatus.   | TC024        |
| Buyers Guide | FAMA Apparatus Improvement White Paper – 2016 | This report details the history of safety features on fire apparatus. It can be used as a tool for determining and justifying funding requirements, and can assist the forward-thinking fire service administrator in analyzing the department's future equipment needs. | TC005 – 2016 |



# **Subcommittee Break-Out Assignments**



# Body

**Will Pilcher, Wayde Kirvida**

|       |   |   |
|-------|---|---|
| TC039 | Buyers Guide - Tanks                          | Andrew Lingel - UPF                           |
| TC041 | Buyers Guide - Hose Restraints                | Grady North - E-One                           |
| TC042 | Buyers Guide - Stepping Surfaces              | Burt McCutcheon - Ferrara                     |
| TC043 | Buyers Guide - Chevron Stripping and Graphics | Jerry Merges - VisionMark                     |
| TC053 | Buyers Guide - Breathing Air Systems          | Ed Smith - VT Hackney                         |
| TC054 | Buyers Guide - Compartment Doors              | Bruce Whitehouse - AMDOR                      |
| TC055 | Buyers Guide - Reels                          | Denis Bleile – COXREELS<br>Ken Fritz - Hannay |
| TC056 | Buyers Guide - Ladder and Equipment Racks     | Mike Adams - Ziamatic                         |
| TC058 | Buyers Guide - Equipment Mounting - Body      | Greg Young - Performance Advantage Co.        |
| TC059 | Buyers Guide - Body Access                    | Mike Adams - Ziamatic                         |



# Chassis

**Tim Johnson, Chris Crowell**

|       |  |                           |
|-------|--|---------------------------|
| TC034 | Buyers Guide - Winches                           | Steve Stein, Steve Martin |
| TC036 | Buyers Guide - Apparatus Seating                 | Bev Lowry - Bostrom       |
| TC046 | Buyers Guide - Engine Air Intake                 | Chad Trinkner - Pierce    |
| TC047 | Buyers Guide - Specing Apparatus for Maintenance | Drew Sutphen - Sutphen    |
| TC048 | Buyers Guide - Suspensions - Front               | Chad Trinkner - Pierce    |
| TC049 | Buyers Guide - Suspensions - Rear                | Bob Albano - Hendrickson  |
| TC051 | Buyers Guide - Cab Storage                       | Mike Adams - Ziamatic     |
| TC057 | Buyers Guide - Occupant Protection               | Dan Veselsky - IMMI       |
| TC062 | Buyers Guide - Tires                             | Woody Savage - Michelin   |
| TC063 | Buyers Guide - Wheels                            | Real Wheels?              |
| TC064 | Buyers Guide - HVAC                              | Mark Bartlett - Spartan   |



# NIOSH Seating for 1901

- “ 1901 Committee will need to address NIOSH report
- “ FAMA can be pro-active by creating our own suggestion for addressing the issue through a new standard.
- “ Proposal should maintain traditional cab
- “ May involve losing four-across seating option



# Electrical

**John Doperalski, Peter Luhrs**

|       |  |                              |
|-------|--|------------------------------|
| TC035 | Buyers Guide - Batteries, Alternators, and Chargers. | Pete Sremac - Niehoff        |
| TC037 | Buyers Guide - Lighting Technology                   | Sam Massa - Hi-Viz           |
| TC038 | Buyers Guide - Line Voltage Generators               | John Doperalski - Harrison   |
| TC040 | Buyers Guide - Headlights                            | Sam Massa - Hi-Viz           |
| TC044 | Buyers Guide - Warning Lights                        | Matt Pitzer - Code 3         |
| TC045 | Buyers Guide - Electrical Systems                    | Dave Durstine - Weldon       |
| TC050 | Buyers Guide - Audible Warning Devices               | Morgan Look - Federal Signal |
| TC060 | Buyers Guide - Light Towers                          | Drew Newman - Will-Burt Co.  |
| TC061 | Buyers Guide - Camera Systems                        | Grady North - E-One          |



# Foam

**Gregg Geske, Mike Dupay**

|       |                             |                           |
|-------|-----------------------------|---------------------------|
| TC030 | Buyers Guide - Foam Systems | Greg Geske, Michael Dupay |
|-------|-----------------------------|---------------------------|



# Pump

**Doug Miller, Mike Sulmone**

|       |   |                   |
|-------|---|-------------------|
| TC052 | Buyers Guide - Pump Pressure<br>Governors | Dave Guynn - Hale |
|-------|---|-------------------|



# Aerial

**Jim Salmi, John Brady**

- “ Buyers Guides
  - “ Brainstorm new buyers guide topics and assign authors.
- “ Aerial Structural Design
  - “ Review the NFPA sections on structural design and safety factors. Consider ways to tighten up NFPA 1901 so that design requirements are more accurately and consistently defined.
- “ Aerial Stability Test
  - “ Review the NFPA section on stability testing and consider revisions to correct inconsistency in the language.
- “ Power Line Proximity Position Paper
  - “ Discuss approach and assign author.



# Ambulance

**Steve Rowland, Mike Franckowiak**

“ Buyers Guides

” Brainstorm new buyers guide topics and assign authors.



# ARFF

**Marty Huffman, Sarah Peck**

“ Buyers Guides

” Brainstorm new buyers guide topics and assign authors.