

Never lose your way
with the venue map P. 3

Stay on track with the
complete agenda P. 4

A design evolution 40 years
in the making P. 14

STATIONSTYLE '13 CONFERENCE

attendee guide

APRIL 10-13, 2013 | PHOENIX | ARIZONA GRAND RESORT

PRESENTED BY **FIRE CHIEF** A PREMIER MEDIA PARTNER

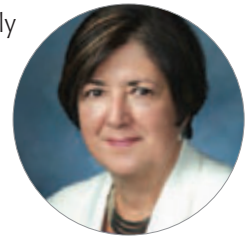


CONTENTS

- 2 FROM FIRE CHIEF**
Welcome Attendees!
- 3 CONFERENCE MAP**
- 4 AGENDA**
The where and when of the conference.
- 8 GUEST SPEAKERS**
Get to know our presenters.
- 14 FROM DALMATIONS TO DECONTAMINATION**
Better fire industry equipment and practices have prompted an evolution in fire station design over the last 40 years.
By Ken Newell
- 19 SPONSOR LIST**
See who's sponsoring this year's event.

Welcome Attendees!

Thank you for joining us at the eighth annual Station Style Conference! We're pleased to be back in Phoenix at the beautiful Arizona Grand Resort after the positive response it received last year. But location isn't the only thing attendees had a hand in selecting: We've added several new presenters and additional networking opportunities based on responses to last year's attendee survey.



Read Janet's commentaries every week in the Command Post e-newsletter. She can be reached at Janet@FireChief.com.

One of the greatest benefits of attending the Station Style Conference rather than an online meeting is the opportunity to spend face-to-face time with your peers — chiefs, city managers and project managers. In addition, architects and vendors from across the nation are available as resources for you and your project. Please take advantage of this opportunity and tap into their experience and expertise over the next few days.

Participation has its benefits. This year, we are pleased to introduce the Public Safety Facility Innovator Certificate, which recognizes your participation in the leading conference on innovations and trends in fire stations and public-safety facilities.

We have worked hard to make the Station Style Conference a worthwhile investment of your time and money. Special thanks to our sponsors who help keep your costs to a minimum.

As with previous Station Style Conferences, our first priority is to bring you unique programs with qualified presenters from across North America. Our second priority is to provide an environment of networking and idea-sharing. Our third priority is to capture your feedback so we can build a stronger program for you next year.

The FIRE CHIEF staff is looking forward to spending time with you during the conference, and please don't hesitate to ask of us for assistance.

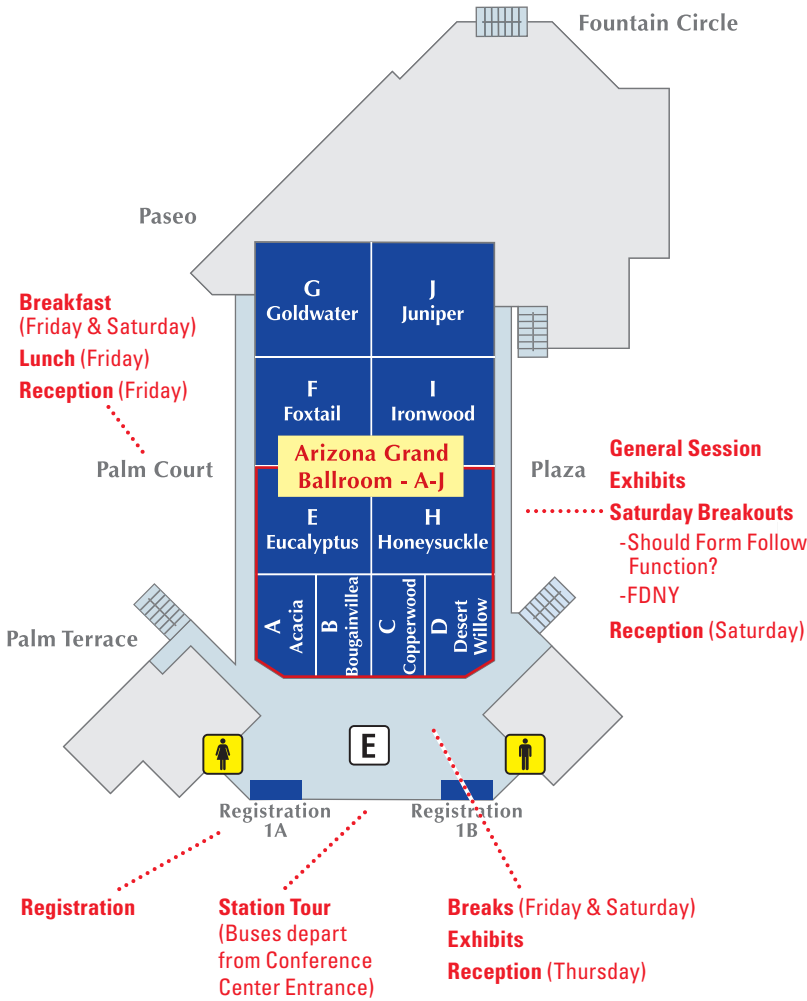
Janet Wilmoth

Facebook: [firechiefmagazine](#)

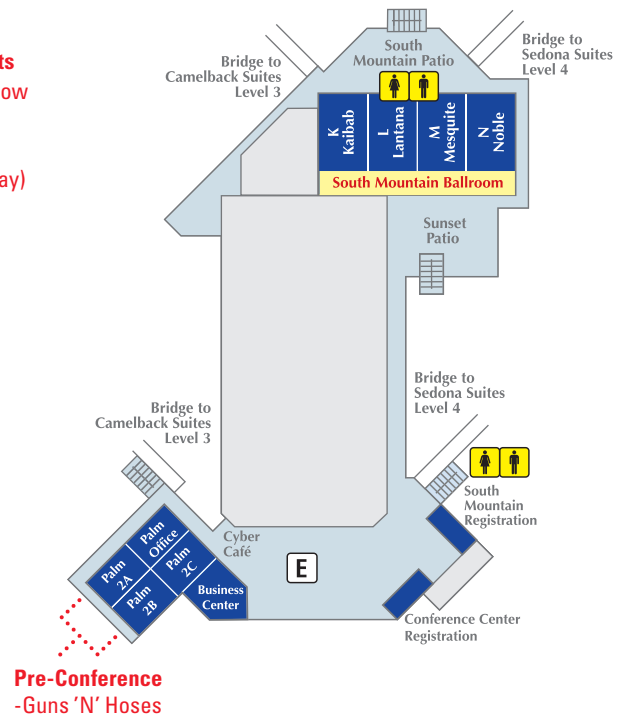
Twitter: [firechiefmag](#)

MAP

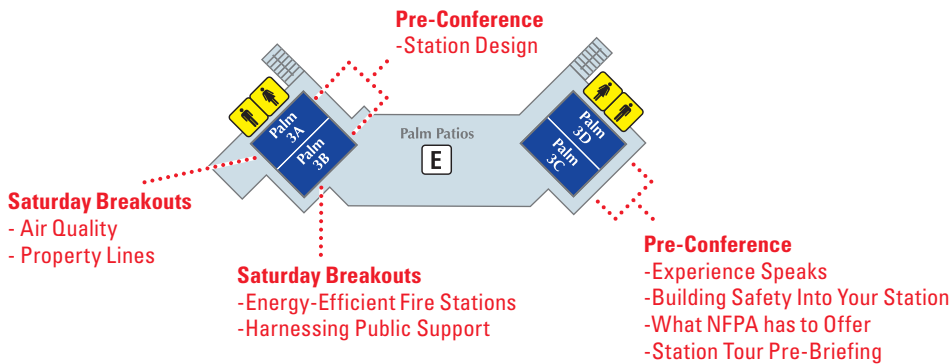
Level 1



Level 2



Level 3



AGENDA

WEDNESDAY, APRIL 10

1 p.m. – 6 p.m. Golf Tournament

Arizona Grand Golf Course

Sponsored by Keiser

Join us for a fun and friendly golf tournament at the beautiful Arizona Grand Golf Course. Shot-gun start is at 1 p.m., and tournament fee includes boxed lunch and prizes.

THURSDAY, APRIL 11

8 a.m. – 6 p.m. Registration Open

Arizona Grand Ballroom Foyer (Level 1)

9 a.m. – 6:30 p.m. Pre-Conference Session Tracks

Pre-conference session tracks are available for a fee in addition to the full conference registration rate. Tracks are optional; attendees can select only ONE track. Full descriptions of each track are provided below. Please note that it is possible to attend the Station Tour Pre-Briefing and Station Tour at no additional charge without selecting one of the tracks.

TRACK 1

(Limited to Fire Department Personnel and City Managers)

- 9:30 a.m.-3 p.m. **Station Design: "Is there an APP for that?"** *Group discussion will be held from 9:30-10:30 a.m., and one-on-one meetings with an architect will be held between 10:45 a.m.-2:50 p.m. (one meeting per department). It is possible that your one-on-one session might conflict with Building Safety Into Your Station or What NFPA has to Offer, but you will be able to come and go from the sessions as needed.*
- 1-2 p.m. **Building Safety Into Your Station**
- 2-3 p.m. **Much More than a Fire Station: What NFPA has to Offer**
- 3:30-4 p.m. **Station Tour Pre-Briefing**
- 4-7 p.m. **Station Tour**

TRACK 2

(Limited to Fire/Police Department Personnel and City Managers)

- 10 a.m.-3 p.m. **Guns 'N' Hoses – How to Plan a Successful, Combination Public-Safety Facility**
- 3:30-4 p.m. **Station Tour Pre-Briefing**
- 4-7 p.m. **Station Tour**

TRACK 3

(Targeted to Architects)

- 9 a.m.-12 p.m. **Experience Speaks**
- 1-2 p.m. **Building Safety Into Your Station**
- 2-3 p.m. **Much More than a Fire Station: What NFPA has to Offer**
- 4-7 p.m. **Station Tour**

9 a.m. – 12 p.m. Experience Speaks**Palm 3CD (Level 3)**

(Pre-Conference Track Registration Required - A Program for Architects and Newcomers to Station Design)

Moderator: Deputy Chief Mike Baker, Streamwood (Ill.) Fire Department
Johnny Fong, FireHouse Designs/Reno (Nev.) Fire Department
Deputy Chief Ken Leake, Phoenix (Ariz.) Fire Department
Capt. Jim McClure (Ret.), San Jose Fire Department, Firehouse Design & Construction
Chief Ed Mishefske (Ret.), Five Bugles Design

In this session designed primarily for architects, fire chiefs and city managers the panel will share their experiences in building fire and emergency facilities.

9:30 a.m. – 3 p.m. Station Design: "Is there an APP for that?"**Palm 3AB (Level 3)**

(Pre-Conference Track Registration Required - Fire Department Personnel and City Managers Only)

Brian Harris, Forest Hooker and Eric Schaer, TCA Architecture Planning Inc.
David J. Pacheco and Dennis A. Ross, Pacheco Ross Architects, PC
Paul Erickson and Christopher Kehde, LeMay Erickson Willcox Architects
Candice Wong and Mike Scott, RRM Design Group

Need help jump-starting your project or breathing life into your design ideas? In this session, a nationally recognized fire-station design architect will personally review your project at any stage of design

or feasibility. You will receive focused, expert advice needed to evaluate where you are now and how to proceed.

Participants will meet as a group from 9:30-10:30 a.m. for this year's topic:

Station Design: "Is there an APP for that?" we will look at:

- How to Get it Built
- Unique vs. Pre-packaged Design
- Balancing Conflicting Decisions
- Flexibility, Trends, Future Needs
- Economic Realities and Opportunities

Also, each architect will host an interactive seminar or present a case study while participants are waiting for their one-on-one opportunity. One-on-one sessions (one meeting per department) with an architect are held between 10:45 a.m.-2:50 p.m. This program is limited to 75 fire department personnel or 40 fire departments.

10 a.m. – 3 p.m. Guns 'N' Hoses – How to Plan A Successful, Combination Public-Safety Facility**Palm 2AB (Level 2)**

(Pre-Conference Track Registration Required - Fire/Police Department Personnel and City Managers Only)

James R. Stumbo, Stewart-Cooper-Newell Architects
Steve Rao, DWL Architects + Planners, Inc.

You expect fireworks when you go to a rock concert – but not when you co-locate your public-safety departments in the same building! If your city is considering the option of asking your police and fire departments to share one facility, you can't afford to miss this special, pre-conference event! Activities will include lectures on effective, tried-and-true combined facility planning from the principal speakers, reviews of relevant case studies, Q-and-A sessions and the opportunity for a one-on-one consultation with the speakers.

10:30 – 11 a.m. Break*Sponsored by TCA Architecture Planning Inc.***12 – 1 p.m. Lunch on your own**

1 – 2 p.m. Building Safety Into Your Station

Palm 3CD (Level 3)

(Pre-Conference Track Registration Required)

Ryan Pietzsch, VFIS Education Training and Consulting

Safety and security often are not considered priorities in fire-station design until after construction is complete and accidents or losses begin to occur. This session will discuss how accidents and losses are occurring in fire stations and how they can be prevented by proper station design.

2 – 3 p.m. Much More than a Fire Station: What NFPA has to Offer

Palm 3CD (Level 3)

(Pre-Conference Track Registration Required)

Ken Holland, National Fire Protection Association

Gain a fundamental understanding of what NFPA documents address fire station design and what the requirements are. Also learn how the end users can get involved in the development of such requirements and NFPA documents.

3 – 3:30 p.m. Break

Sponsored by Mitchell Associates Architects

3:30 – 4 p.m. Station Tour Pre-Briefing

Palm 3CD (Level 3)

(Open to All Conference Attendees)

Deputy Chief Ken Leake, Phoenix Fire Department

Larry Enyart, FAIA, LEED AP, LEA Architects LLC

Bruce Scott, HDA Architects, LLC

Keith Sabia, FCI Constructors, Inc.

Before the buses leave to tour the Phoenix Fire Training Academy and Paradise Valley Fire Station No. 1, architects and representatives from each facility will offer insights on the design and construction phase, as well as areas of particular interest at each facility.

4 – 7 p.m. Station Tour

Conference Center Entrance (Level 1)

(Open to All Conference Attendees)

Buses will depart from the at 4 p.m.

Attendees will tour two award-winning public-safety facilities — the Phoenix Fire Training Academy and Paradise Valley Fire Station No. 1.

12 – 4 p.m. Exhibitor Install

Arizona Grand Ballroom & Foyer (Level 1)

7 – 8:30 p.m. Welcome Social

Arizona Grand Ballroom & Foyer (Level 1)

Sponsored by First-In by Westnet

FRIDAY, APRIL 12

7 a.m. – 5 p.m. Registration Open

Arizona Grand Ballroom Foyer (Level 1)

7 – 8:30 a.m. Continental Breakfast

Palm Court (Level 1)

Sponsored by CR architecture + design and CORE Construction

8 – 8:10 a.m. Opening Remarks

Janet Wilmoth, Associate Publisher, FIRE CHIEF

8:10 – 8:30 a.m. Welcome

Chief Robert Khan, Phoenix Fire Department

8:30 – 9:30 a.m. (Stand)pipe Dreams vs. Reality – Appropriate Expectations for Station Design & Construction

Kenneth C. Newell, Stewart-Cooper-Newell Architects

This presentation focuses on contrasting myths about station design with realistic expectations, based on the current market and relevant, recent examples. Topics covered include schedules, construction costs and project flow.

9:30 – 9:45 a.m. Product Updates

9:45 – 10:15 a.m. Break

Sponsored by Firehouse Design & Construction

10:15 – 11:15 a.m. Navigating Through Bidding and Construction Phases of Your Project: How to Handle Normal Issues and be Prepared for the Unexpected

Jeff Humphreys, Group Mackenzie Architecture and Engineering
Chief Alan Predmore, Buckley (Wash.) Fire Department

This presentation will help prepare you for the expected and unexpected challenges during the bidding and construction phases of your project to help ease anxiety and reduce unexpected issues.

11:15 a.m. – 12 p.m. Green Building and LEED for Fire/Rescue

J. Lynn Reda, Hughes Group Architects

“Green Building” is great for the environment. Gain an understanding of what “going LEED” means to your station — strategies, costs, impacts and the future of green stations.

12 – 12:15 p.m. Product Updates

12:15 – 1:15 p.m. Lunch

Palm Court (Level 1)

Sponsored by Stewart-Cooper-Newell Architects

1:15 – 2 p.m. Evaluating Station Location, Unit Needs and Facility Consolidation for Operational Efficiency and Community Support

Robert Mitchell, Mitchell Associates Architects

Charles Jennings, Manitou Inc.

Station and unit deployment studies at the start of any decision process on consolidation, renovation or new construction of one or more fire stations demonstrate adequate protection and efficiency.

2 – 2:15 p.m. Product Updates

AGENDA

2:15 – 3:15 p.m. Case Study:
Project Path from Assessment to
Construction – New Station No. 9

Deputy Chief John Tippet, Charleston (S.C.)
Fire Department
Steve Coe, Rosenblum Coe Architects Inc.

The presentation will present a project case study of a facility needs assessment, decision-making processes, and design of a new LEED-Silver fire station.

3:15 – 3:30 p.m. Product Updates**3:30 – 4 p.m. Break**

Sponsored by Door Engineering

**4 – 5 p.m. Remaining Operational
Through Catastrophic Events:**
The Hardened Station

Chief Roy A. Robichaux Jr., Plaquemines
Parish Fire Department
James R. Kirkpatrick, FAIA, Kirkpatrick
Architecture Studio

Designing the station of the future to withstand catastrophic events, the speakers use first-hand experience from the owner and the architect to provide solutions to consider when planning your station.

5 – 6:30 p.m. Cocktail Reception

Palm Court (Level 1)

Sponsored by Ready Rack/Groves Inc.

SATURDAY, APRIL 13

**6:45 – 8:15 a.m. Continental
Breakfast**

Palm Court (Level 1)

Sponsored by Group Mackenzie

**7:30 – 8 a.m. Trends in Station
Style Winners**

Deputy Chief Mike Baker, Streamwood (Ill.)
Fire Department

Brian Harris, TCA Architecture Planning Inc.
Review of new trends and lessons learned from the winning entries in the 2012 Station Style Design Awards from two seasoned judges.

**8 – 9 a.m. Fire Station Design
and Construction Processes:**
Fire Facility Delivery Strategies of
a Large Municipal Fire Department
and an Established Fire District –
Understanding the Challenge

Chief Kris Kazian, Sedona (Ariz.) Fire District
Deputy Chief Ken Leake, Phoenix Fire
Department
Lance Enyart and Larry Enyart, LEA
Architects

Fire chiefs and architects will highlight and compare the facility delivery processes and the planning, design and construction in a large municipal fire department compared with an organized fire district.

9 – 9:15 a.m. Product Updates**9:15 – 10:15 a.m. Ignorance
Isn't Bliss**

David J. Pacheco and Dennis A. Ross,
Pacheco Ross Architects, PC

Don't expend more money, time, political capital and initiative than you should. What you don't know is detrimental. This fast-paced, no-holds-barred, sometimes counterintuitive, perhaps controversial presentation will educate, challenge and present solutions.

**10:15 – 10:30 a.m. Product
Updates****10:30 – 11 a.m. Break**

Sponsored by US Digital Designs/Phoenix G2

**11 a.m. – 12 p.m. Shared
Emergency Service Facilities – A
Canadian Perspective**

Linus Murphy and Pierre Ferronato, S2
Architecture

Interactive session exploring the pros and cons of shared emergency-service facilities — concepts, issues, benefits and challenges. Discussion offers participants information essential to the decision-making process regarding shared facilities.

12– 12:15 p.m. Product Updates**12:15 – 12:45 p.m. Working Lunch**
Boxed lunches will be available in the
lobby area

*Sponsored by The Galante Architecture
Studio Inc.*

**12:45 – 1:15 p.m. The Bunker
and the BBO**

Rob Quigley, Rob Wellington Quigley, FAIA

Most new fire stations, as functional and handsome as they might be, are not good neighbors. This case study of a 3-story urban station takes a step beyond standard program requirements to investigate the balance between community, privacy and neighborliness.

1:15 – 1:30 p.m. Product Updates**1:30 – 2:30 p.m. The Little Fire
District That Could: Promises
Made, Promises Kept**

Chief Kevin Keeley and Louie Chaboya,
Tubac (Ariz.) Fire District
Richard Luckett, Breckenridge Group
Architects and Planners

A small, rural Arizona fire district searches for funding for new public-safety facilities with the passage of a bond program that are overlooked by fire districts and community leaders.

2:30 – 3:00 p.m. Break**3 – 4 p.m. BREAKOUTS:****Should Form Follow Function?**
Arizona Grand Ballroom

Mark Shoemaker, CR architecture + design

Most of us have an image of what a fire station should look like. Does that aesthetic really apply to a modern fire station? In this presentation we will discuss the design of a station from the inside out — implementing efficient, practical solutions that are based on operational needs.

Air Quality in Fire Stations

Palm 3A (Level 3)

Moderator: Lisa Allegretti, Editor, FIRE CHIEF

Vehicle exhaust removal systems can help prevent firefighter illness. This panel of end users and architects will discuss the types of air quality systems available

and options for size, placement and connections within the station.

How to Create an Energy Efficient Fire Station

Palm 3B (Level 3)

Robert Mitchell, Mitchell Associates Architects

This presentation will describe how to achieve an energy-efficient fire station through the use of sensible energy conservation and alternative energy measures as they apply to fire stations.

4 – 5 p.m. BREAKOUTS:

FDNY Then, Now, What the Future Might Hold

Arizona Grand Ballroom

Theodore (Ted) Galante, The Galante Architecture Studio Inc.

Pre 9/11, neither FDNY nor Boston Fire invested heavily in fire station renovation.

Following that period, both departments started to invest, then the financial crisis hit. What does the future look like for fire stations of the future?

Thinking Outside the Property Lines

Palm 3A (Level 3)

Brian Harris and Forest Hooker, TCA Architecture Planning

This seminar will focus on identifying risks and opportunities when faced with a challenging site. Evaluation methodologies, case studies and partnering concepts will be presented.

Harnessing Public Support for Your Projects

Palm 3B (Level 3)

Chief Mike Bucy, Stevens (Wash.) Fire District No. 1

Starting the public support process early can pay off in the long-run.

Garnering public support should be a 24/7 proposition. Find out how in this lively presentation.

5 – 7 p.m. Exhibitor Dismantle

Arizona Grand Ballroom & Foyer (Level 1)

7 – 8:30 p.m. Networking Social

Arizona Grand Ballroom (Level 1)

Sponsored by

TonOne Architects

LeMay Erickson Willcox Architects

Pacheco Ross Architects, PC

RRM Design Group and

TCA Architecture Planning Inc.



**Committed to the Design of
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Lynn Reda, AIA, LEED AP BD+C

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PRESENTERS' BIOS

Lisa Allegretti

Editor, FIRE CHIEF



Lisa Allegretti is the editor of FIRE CHIEF and FireChief.com. She has been with the magazine since 2000, starting as an associate editor. Allegretti has been heavily involved in the production of each year's Station Style Fire Station Design Awards. She is a graduate of Northwestern University's Medill School of Journalism.

Ph: 312-840-8443 | lisa@firechief.com | www.firechief.com

Steven H. Coe

AIA, LEED BD+C, President, Rosenblum Coe Architects Inc.



For 20 years, Steve Coe has been involved with projects for five departments, including fire stations and mission-critical facilities. His firm's approach to projects is centered on client participation as a means of achieving unique solutions to each department's program and budget requirements. This "team" approach has resulted in being named Architect of the Year in 2002 & 2007 by the Charleston Contractor's Association.

Ph: 843-577-6073 | scoe@rosenblumcoe.com | www.rosenblumcoe.com

Mike Baker

Deputy Fire Chief, MPA, EFO, Streamwood Fire Department



Mike Baker was responsible for the design and construction of Elgin (Ill.) Fire Department's Fire Station No. 6, which received a 2005 FIRE CHIEF Station Style silver award and coordinated the 2008 construction of Fire Station No. 7, a multi-use fire station/vehicle maintenance facility. Baker retired from the Elgin Fire Department and is currently a deputy fire chief in

neighboring Streamwood, Ill.

Ph: 630-736-3653 | mbaker@streamwood.org | www.streamwood.org

Lance Enyart

AIA, LEED AP, Design Architect, LEA-Architects LLC



Lance Enyart is a design architect at LEA and has a bachelor's degree in architecture from the University of Arizona. He worked on designing the first LEED-Platinum fire station in the U.S., Scottsdale (Ariz.) Fire Station No. 2, LEED-Platinum Phoenix Fire Station No. 59, and numerous other LEED-certified projects. Enyart's expertise in architecture is demonstrated

through a body of award winning work that responds to unique client challenges, contextual and ecological influences.

Ph: 602-943-7511 | lance@lea-architects.com | www.lea-architects.com

Mike Bucy

Chief, Stevens County Fire Protection District No. 1



Mike Bucy recently oversaw an architectural needs assessment and is awaiting word on a grant to start the station project. He has been the chief for almost three years at Stevens Fire District 1. Prior to that, he was both a volunteer fire chief for Union Fire-Rescue in Wheeler, Ind., and a career assistant chief in Portage, Ind. His career spans 26 years and includes various station projects. Bucy recently helped pass a EMS Levy with over 62% of the vote. Bucy speaks nationally and runs a training and consulting business, Red Devil Training.

Ph: 509-262-9660 | mbucy@scfpd1.com | www.scfpd1.com

Larry Enyart

FAIA, LEED AP, Principal Design Architect, LEA Architects LLC



Larry Enyart has designed more than 160 fire stations and 10 public-safety training centers — including the first LEED-Platinum station in the U.S. LEA has received more than 100 design awards over the past three decades, and designed the LEED-Platinum Phoenix Fire Station No. 59, the award-winning Glendale Regional Public Safety Training Center and Paradise Valley Fire Station No. 1. Enyart is a retired USAF brigadier general.

Ph: 602-943-7511 | lenyart@lea-architects.com | www.lea-architects.com

Louis A. Chaboya

Special Projects Coordinator, Tubac Fire District



Louis Chaboya was the project manager for the construction of three new fire stations for the Tubac Fire District. During this time, he coordinated the passing a \$15 million bond for the construction of the fire stations. Chaboya managed the hiring of an architect and construction firms to design and build the fire stations and had oversight of the construction of the fire stations, which were more than \$400,000 under budget and several months ahead of schedule.

Ph: 520-631-7555 | www.tubacfire.com

Paul R. Erickson

AIA, LEED AP, Senior Principal Architect/President, LeMay Erickson Willcox Architects



Paul Erickson has practiced in the greater Washington, D.C., area and Mid-Atlantic states for 35 years. During that time, he has built a reputation for fire and rescue expertise and design excellence with more than 70 public-safety buildings including new and renovated fire stations, EOCs, training facilities, mixed-agency buildings, and public-safety centers.

Ph: 703-956-5600 | perickson@lewarchitects.com | www.lewarchitects.com

Pierre Ferronato

Senior Contract Administrator, S2 Architecture



Pierre Ferronato has worked in the construction industry for 20 years. His experience is broad, including his role as owner's project manager for the Calgary Fire Department as the hands-on leader for the roll out of multi-stakeholder buildings for the Emergency preparedness plan for the city. His extensive range of experience enables Ferronato to bring insight and solution based ideas to facilitate project delivery success.

Ph: 403-670-7011 | p.ferronato@s2architecture.com | www.s2architecture.com

Ken Holland

Fire Service Specialist, National Fire Protection Association



Ken Holland's work at the NFPA involves working with technical committees that develop and maintain various safety standards that involve Aircraft Rescue and Fire Fighting (ARFF), fire service occupational health and safety (FSOSH), NFPA's new ambulance standard, NFPA 1917, and the EMS community. Ken's work also has includes serving as a liaison to several outreach programs that the NFPA is involved in.

Ph: 617-984-7490 | kholland@nfpa.org | www.nfpa.org

Johnny Fong

AIA, NCARB, FireHouse Designs
Captain, Reno Fire Department



Johnny Fong has been a fire-station design judge for Station Style since 2002. He is currently assigned as operator of Reno (Nev.) Fire Department Engine No. 2, one of the busiest engines in the city. He also has served as an acting training captain. FireHouse Designs, formed in 1996, blends the needs of two distinct disciplines — architecture and fire service — resulting in fire-station designs satisfying to both the architect and fire-service personnel.

Ph: 775-720-3596 | firehousedesigns@aol.com

Forest Hooker

RA, LEED AP, Associate, TCA Architecture • Planning Inc.



Fire-facility design is a primary focus of Forest Hooker's architectural career. Having worked on more than 20 facilities over his 18 years of experience, he has a keen understanding of fire-station design and construction. Hooker is a published author and speaker on fire-facility design. He has won multiple awards for his fire-station projects, most recently a bronze in the 2011 Station Style Awards for Northshore Fire Station No. 51.

Ph: 206-522-3830 | forest@tca-inc.com | www.tca-inc.com

Theodore Galante

LEED AP, IAFC, The Galante Architecture Studio



Ted Galante has been planning and renovating fire stations with the FDNY the Boston Fire Department for the past seven years, which led to projects with community fire departments. His firm has studied sessions at FDNY's training center, and helped plan the expansion of Boston's Fire Academy training facility. He sees his firm's role as a kind of bridge between these two cities, which continues to inform the practice and allows other communities to benefit.

Ph: 617-576-2500 | tg@galantearchitecture.com | www.firehousearchitect.com

Jeff Humphreys

AIA, LEED AP, Group Mackenzie



With architectural experience spanning two decades, Jeff Humphreys has focused his career on the design of emergency response facilities, specifically fire stations. He has been a presenter at multiple past Station Style conferences, sharing his experience on a variety of subjects pertaining to fire station design. Humphreys is passionate about fire facilities and actively serves on the IAFC environmental sustainability committee.

Ph: 503-224-9560 | jhumphreys@grpmack.com | www.groupmackenzie.com/firestations

Brian Harris

AIA, LEED AP, Principal, TCA Architecture • Planning Inc.



TCA, national consultants for emergency facilities since 1960, has been involved in the planning and design of more than 200 fire-service projects. With more than 150 projects to his credit — including training facilities, fire stations, public-safety buildings, maintenance facilities, and EOCs and 911 centers — Brian Harris pioneered the first LEED-certified fire station and training facility and the highest-rated, energy-efficient LEED-Platinum facility in the U.S.

Ph. 206-522-3830 | brian@tca-inc.com | www.tca-inc.com

Charles Jennings

PhD, CFO, FIFireE, Principal, Manitou Inc.



Charles Jennings leads studies on deployment analysis, management, and long-range planning for fire service organizations throughout North America. He combines more than 20 years of independent consulting experience with extensive fire-services background, serving most recently as deputy commissioner of public safety for the city of White Plains, N.Y. Jennings is on the faculty of John Jay College of Criminal Justice.

Ph: 914-437-8749 | cjennings@manitouinc.com | www.manitouinc.com

PRESENTERS' BIOS

Kris Kazian

Chief, Sedona Fire District



Kris Kazian has been in the fire service for more than 23 years beginning in the northern suburbs of Chicago, and since March 2012, as fire chief in Sedona, Ariz. He was involved in building a 2007 Notable Mention Satellite Station in Countryside Fire Protection District, and is now in the process of building Sedona Fire Station No. 6, having gained approval by the elected

Governing Board after the project being on the drawing board for more than five years.

Ph: 928-282.6800 | Kkazian@SedonaFire.org | www.Sedonafire.org

Kevin T. Keeley

Chief, Tubac Fire District



Kevin Keeley currently is in his 39th year in the fire service, 28 of those years at the chief-officer level. Keeley's background includes 22 ½ years with the Tucson Fire Department, retiring in April 1996 as an assistant chief. He spent two-and-a-half years with Rural Metro Corp. in various management positions. Keeley currently is in his 15th year as fire chief of the

Tubac Fire District.

Ph: 520-398-2255 | kkeeley@tubacfire.org | www.tubacfire.org

Christopher S. Kehde

AIA, LEED AP, Associate, LeMay Erickson Willcox Architects



Christopher Kehde has practiced in the greater Washington, D.C., area for more than 15 years, designing and managing the renovation and new construction of numerous fire stations and municipal buildings. He currently is managing the Montgomery County Public Safety Training Academy, a 12-building, \$77 million campus in Rockville, Md., that includes classroom, firing range, hi-bay, apparatus, drive-simulator, live-burn and K-9 buildings.

Ph: 703-956-5600 | ckehde@lewarchitects.com | www.lewarchitects.com

James R. Kirkpatrick

FAIA, Principal, Kirkpatrick Architecture Studio



With more than 40 years designing many types of facilities in the Southwest and Mexico, Jim Kirkpatrick brings this experience to bear on each Public Safety project. Of the award-winning stations designed by the studio, two have been certified LEED Gold — both the first in their states. Response to customer's needs and owner advocacy are first and foremost on every project

his firm undertakes.

Ph: 940-387-8182 | jim@k-a-studio.com | www.k-a-studio.com

Ken Leake

Deputy Chief, Phoenix Fire Department



Ken Leake is a deputy chief for Phoenix Fire Department, employed there for the past 30 years. During this time, he has led the city's team in developing 15 new facilities, including the fire operations center, 911 center, training academy and three airport crash rescue facilities. Leake challenged the status quo by spearheading the development of highly energy-efficient and durable buildings. These structures are green or LEED-built and have recognized nationally by professional trade organizations.

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Richard Luckett

AIA, Principal/Senior Project Manager, Breckenridge Group Architects and Planners



Richard Luckett, principal architect, has 31 years planning and design experience for numerous fire department and fire districts. In the past ten years Richard has designed 23 fire stations across Arizona. Luckett's special interest is assisting fire districts in search of publicly financed bond programs and public/private-partnerships (PPP) to assist the design and construction of their new fire stations.

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Jim McClure

Principal, Firehouse Design & Construction Captain (Ret.), San Jose Fire Department Facilities & Construction Officer



Jim McClure represented the San Jose Fire Department on a \$70 million construction bond. The public-works team finished a design program, four major remodels and nine new firehouses. Knowing how the firehouse functions — what breaks and what doesn't — has given McClure a keen eye for the detail needed to build a maintainable, durable, functional firehouse. He shares that information with firefighters and architects.

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Robert Mitchell

Principal, Mitchell Associates Architects



With 20 years experience in designing fire stations, Bob Mitchell's sole focus is public-safety architecture. He has been involved directly in more than 165 fire stations and emergency services facilities; completed many consolidation studies; designed and built many passive solar and energy-efficient buildings heated for as little as \$100 per year; received energy awards and patents.

His former firm's designs received three Station Style Gold Awards.

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Linus Murphy

Architect, Principal, S2 Architecture



Linus Murphy has worked in the public-safety sector for more than 30 years. He has designed 25 fire stations, four public-safety training centers and eight multi-agency facilities; 14 of his projects are LEED Silver or Gold certified. Murphy believes great fire station design is one that supports the vision and mission of the client and the buildings performance long-term - operationally, functionally and environmentally.

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Alan Predmore

Chief, Buckley Fire Department



Chief Alan Predmore has served as fire chief for the past 15 years and has more than 30 years of fire and emergency service experience. Starting in 2010, Predmore oversaw the needs assessment, property acquisition, voter approved capital bond measure, final design and construction of the city's new 21,232-square-foot headquarters fire station facility that was completed in 2012.

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Ken Newell

AIA, LEED AP, Senior Principal
Stewart-Cooper-Newell Architects



Ken Newell has been directly involved in the design of more than 185 fire, EMS and other public-safety projects, and taken an advisory role on another 70 public-safety projects designed by Stewart-Cooper-Newell Architects. These projects span 24 states. Over the last two decades, Newell has earned a respected reputation for efficient, effective and budget-conscious design and programming of fire and rescue stations.

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Rob Quigley

FAIA, Principal, Rob Wellington Quigley



Rob Quigley, a native Californian, served as a Peace Corps architect in Chile after graduating from the University of Utah. He founded his firm in 1974 and has earned more than 80 awards for design excellence. His current work focuses on leading the design process to meet municipal clients' needs and budgets, including fire stations in southern California and the San Diego New Central Library. Recent honors highlight the firm's projects with sustainable design.

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David J. Pacheco

Partner, Pacheco Ross Architects, PC



David Pacheco is an award-winning Firematic designer with 20 years of experience. He is an honorary member of the Grand Boulevard Fire Company and the Kingston Fire Department. Pacheco graduated Cum Laude from RPI, is licensed in 10 states, and is a fire station awards juror, a member of the ASTM Homeland Security EOC committee, instructor, author, AIA director and Firematic advisor to architects across America. His firm focuses exclusively on emergency-response design: Practical attractive creations that respond to client needs, budget, codes, environment and community.

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Steve Rao

AIA, LEED AP, President, DWL Architects + Planners Inc.



Steve Rao's expertise is in leading the design of highly technical and secure buildings. For the past 30 years his experience encompasses a wide-ranging scope of public works projects, including fire stations, airports, border stations, light-rail stations and a variety of municipal facilities. Most recently, Rao led the design efforts for the Aircraft Rescue and Fire Fighting (ARFF) facility at Laughlin/Bullhead International Airport.

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Ryan Pietzsch

Education Specialist, VFIS



Ryan Pietzsch is an education specialist/consultant for VFIS, a subsidiary of the Glatfelter Insurance Group. His responsibilities include national coordination and delivery of education programs, curriculum development, information analysis, and consulting. He also is a member of NFPA 1500 and 1000 series technical committees. Pietzsch has been active in the fire service for more than 23 years and currently is a firefighter with the Silver Spring Fire Co. in Mechanicsburg, Pa.

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J. Lynn Reda

AIA, LEED AP BD+C, Studio Leader for Fire, Rescue & 911,
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A senior associate with Hughes Group Architects, Lynn Reda is a registered architect with extensive experience in the programming, design documentation and project management of sustainable fire and rescue facilities. She is committed to meeting the functional and economic goals of her clients with quality design in every project. Several of Reda's buildings have been recognized with national design awards.

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PRESENTERS' BIOS

Roy A. Robichaux Jr.

CFPS, Superintendent, Plaquemines Parish



Roy Robichaux has been in the fire service almost 40 years, primarily as chief of the Belle Chasse (La.) Volunteer Fire Department. He served as superintendent of emergency response at the ConocoPhillips–Alliance Refinery before becoming superintendent of the seven fire departments in Plaquemines Parish. He has served in many capacities in fire service organizations, both at the state and national level.

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Mark Shoemaker

AIA, LEED AP, Client Leader, CR architecture + design



Mark Shoemaker has more than 30 years of experience and a portfolio of more than 50 public-safety projects. His projects include the 2012 Station Style award-winning Springfield Fire Station No. 3. Currently, Shoemaker is working on the Western Massachusetts Fire Training Academy, and fire station projects in Groton, Mass.; Joplin, Mo.; and Toledo, Ohio.

Shoemaker graduated from University of Cincinnati.

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Dennis A. Ross

AIA, Partner, Pacheco Ross Architects, PC



Pacheco Ross is an award-winning, nationally recognized architectural firm dedicated entirely to emergency-response facility design. Dennis Ross graduated Rensselaer Polytechnic Institute, and spent one year as an exchange student in London. He has 38 years experience, including real-estate development and construction, and is licensed in 14 states. Ross has written articles for Fire Chief magazine and co-authored "Chief Fire Officer's Desk Reference & Fire Station: Architectural Insight to Planning, Design & Construction."

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Jim Stumbo

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Jim Stumbo has extensive experience designing fire stations, police stations, training facilities and other municipal projects. He has developed a national reputation in the design of combined fire and police stations. Stumbo has been published in regional fire and rescue publications and teaches design courses for regional and national conferences.

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Eric Schaer

AIA, NCARB, Principal, TCA Architecture • Planning Inc.



Since joining TCA in the early 1990s, Eric Schaer's specialty in fire-service facility design has gained prominence both locally and nationally. He takes an active role in TCA's design of fire stations from Texas to Alaska. Schaer co-authored the Site Location and Selection chapter of the "Fire Chief Handbook," has won multiple awards and has been on the architect presentation panel for the Station Style pre-conference eight times.

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John Tippett

CFO, Deputy Chief of Operations, Charleston Fire Department



John Tippett's fire service career spans 37 years. He has been with the Charleston Fire Department since 2009 and worked for the Montgomery County (Md.) Fire and Rescue Service from 1976-2009. Tippett holds a bachelor's degree in fire science and is a recognized fire service speaker and author. He worked closely with Steve Coe of Rosenblum and Coe on the design of the Charleston's new LEED-Silver combination administrative headquarters and fire station.

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Michael Scott

LEED AP, Project Manager/Architect, RRM Design Group



Michael Scott has dedicated the majority of his 15 years with RRM to the design of fire stations, fire training facilities, and combined public-safety centers. With more than 50 fire facilities constructed, Scott helped usher in California's first wave of LEED stations from 2004 to present, including the award-winning Los Angeles Fire Station No. 82, which is LEED-Gold certified. His construction management background allows him to expand the design concepts to the specific "how it works" details.

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Candice Wong

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Specializing in civic and public-safety projects, clients' operational goals and needs are Candice Wong's top priority. She has direct experience with fire and police stations, EOCs, and communications and training centers. Wong works directly with clients, users and maintenance staff to develop solutions that meet the operational goals, needs and requirements of the project.

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From Dalmatians to decontamination

Better fire industry equipment and practices have prompted an evolution in fire station design over the last 40 years.

By Ken Newell

Ken Newell, AIA, LEED AP, is a principal at Stewart-Cooper-Newell, which recently celebrated its 40th anniversary. During that time, SCN has worked on more than 200 fire station design projects.

The modern fire station is a very specialized facility, not just a garage in which to keep big trucks. And a specialized facility requires a designer who specializes in that building type. Departments will benefit greatly by including an architect with extensive expertise in station design on the project team. This realization has resulted in a category of station designers who can provide the entire design package for your project, or who can assist the local design team that may lack this type of experience.



The average cost for a fire station today is \$180-\$190 per square foot, up from \$50-\$60 per square foot 40 years ago. Prices have been much more volatile over the past decade.

The most pronounced change in station design over the last 40 years also is the most obvious — construction costs. In the 1970s, an average fire station project cost was \$50-\$60 per square foot. Today, the average cost is \$180-\$190 per square foot, with much more volatility over the past decade.

Volunteer fire departments transition into

combination or career departments has changed the spaces in their stations. Post-transition, these stations needed sleeping quarters, toilet/shower rooms and daily-use kitchens. Even something as simple as where a firefighter parks his personal vehicle and enters the building is affected by volunteer or career status.

As municipalities have sought ways of providing better, all-around public safety coverage, and as departments or agencies have looked for ways to share the ever-increasing construction costs, co-location of multiple public safety agencies into one facility has steadily increased. Securing different portions of the building for the multiple occupants then becomes a serious design consideration.

When the “second occupant” is EMS, there often are separated sleeping quarters to keep one set of responders from waking the others with their calls. There are also dedicated EMS supply rooms. Sometimes there are even separate dayrooms and kitchen facilities for the two different groups. When the second occupant is law enforcement, the line of separation is usually more pronounced. More commonly, you will have the fire department on one side, police department on the other side, and shared spaces in the center of the facility. Additionally, the law enforcement component is frequently a simple satellite presence comprising a single office and separate toilet. Often, these satellite stations are not manned continuously.

The regulatory changes of the past 40 years more severely impact the design of the facility. It seems like these regulations increase yearly. The

“essential facility” building code classification requires a more rigidly constructed structure than ever before encountered by public safety. For example, over the last decade fire sprinklers began to be required in the sleeping quarters, and are now quickly becoming mandatory in all spaces. The Americans with Disabilities Act (ADA) of 1991 proved to apply to both public and private sections of the station. Elevators and handicapped facilities have become increasingly present in stations due to the ADA. Regulations regarding stormwater retention and quality, landscaping, and oil separation for vehicle drainage areas have added to the site sizes, requirements and costs.

Departments have become more aware that a good fire/rescue facility should have a life span of at least 50 to 75 years. As no one can predict how the built components will need to function in 50 years, efforts now are being made to make the facility and the spaces therein as accommodating as possible for modifications and growth. Departments should be mindful of station areas that will likely need to grow, and to properly locate and design these areas so that expansion can be more easily accomplished. Even interior walls are more likely to be constructed of materials that will easily accept future wiring, conduits and technologies.

A green explosion

The past 10 years has witnessed the explosion of sustainability. Some U.S. fire stations have been in service for 100 to 150 years — proving that good design is sustainable design. For the sake of the contemporary definition, “sustainability” represents design and construction practices that significantly reduce or eliminate the negative impact of buildings on the environment and occupants. Some municipalities are now requiring their new stations to be certified



Today's larger fire apparatus require taller and wider bay doors, along with the increased aisle space and cab-tipping height in the apparatus room.

through one of the Green Building processes, such as Leadership in Energy and Environmental Design, or LEED. Many more are simply taking a proactive approach to incorporating as many sustainable practices into the station design and construction as economically feasible. The practical application of modern sustainable efforts proves to be a great means of stewardship and leads to financial benefits in the life-cycle costs of the facility.

Another evolving design characteristic of new stations over the past few decades is the aesthetic response to the community. Designers and departments are paying much more attention to the surrounding built environment as they develop the appearance of the new facility. From the overall building size and shape to the material selections, newer stations tend to visually fit better into their neighborhoods.

During the 1980s, public-safety training centers became a major part of fire station design. Many of the training evolutions and opportunities provided in training centers could be inexpensively incorporated into the station design. Twenty-five years later, it has become common for stations across the country to now make it a priority to include training props into their station design. From training towers, to pump-test pits, to ladder training, to confined space rescue, to rope rescue, the opportunities are only limited to the imagination. The classroom-style train-

ing room has also become common and often serves a dual function as a community room.

Whether it is in a large, metropolitan location or a remote, rural setting, the security of the station and site has become a more important issue. This has resulted in many design changes

Whether it is in a large, metropolitan location or a remote, rural setting, the security of the fire station and its site has become a more important issue.

to the facility design, such as the proper zoning of public and non-public spaces, electronic controlled access to portions of the building, and fenced/gated drives for apparatus return and staff parking. By necessity, the days of allowing the public to wander into open bay doors and through the facility are quickly disappearing.

One might think that the implementation and advancement of information technology and communications systems would reduce space requirements in the facility, but the opposite has proven to be the case. Information Technology (IT) rooms (with proper cooling), wiring closets, cable trays, chases, etc, have all complicated the systems accommodations in the station. Planning for the growth and evolution of these systems over the life of the station can be difficult, but is important.

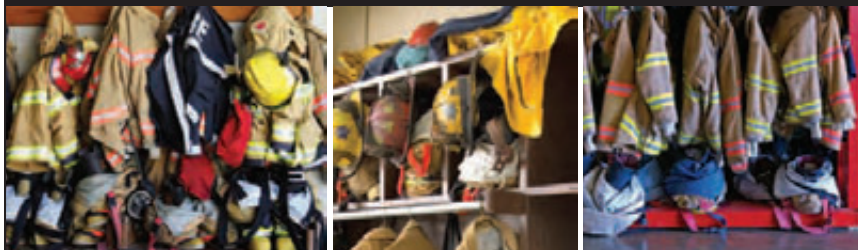
Today's apparatus look like monster trucks in comparison to the apparatus from 40 years ago. This has resulted in the need for taller and wider bay doors, along with the increased aisle space and cab-tipping height in the apparatus room.

We also see the desire for more drive-through apparatus bays, than in decades past. This not only impacts the size of the apparatus room, but it normally requires a larger site in order to provide driveways around the building. Many depart-

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ments that build drive-through bays don't utilize them as such...some back in from both directions. Nonetheless, most departments want the flexibility provided to them with drive-through bays, as long as the site can accommodate it.

Dealing with work place hazards in the station has made significant impacts to the station design. Some of these efforts have been driven by governmental regulations, but many of the efforts are the result of conscientious firefighters looking out for their own. This effort has added elements to the station such as better exhaust ventilation in the bays, PPE storage rooms instead of hanging racks in the bays, proper location of the ice machine, emergency showers and eyewashes, and the provision of proper extractors and dryers.

Decontamination rooms also are becoming a staple of station design. Regulations now mandate that each Department have a decontamina-

tion facility, including extractor, and wash basins. With the growing emphasis on saving budget dollars and decreasing times, Departments are now opting to include a decontamination room in each facility.

Over the last 40 years, one of the greatest impacts on station design has been the ever-increasing role of the female firefighter. While the ratio of male to female firefighters varies greatly with each department, most departments now have females working along-side their male counterparts. Some departments have opted to ignore any cause for gender separation in bunk areas, locker rooms and toilet rooms. But most have incorporated some level of separation in these and other spaces. From low partition walls in bunk areas and two separate locker rooms, to single-individual sleep rooms and toilet/shower rooms, some departments are still struggling to find the approach that suits them best. ■

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