



FIRE BUCKET



December, 2016

A publication of the Central Ohio Chapter of the Society of Fire Protection Engineers

SFPECOC.Webs.com

Next Meeting

Date: January 11, 2017

Location: **The Spaghetti Warehouse**
397 West Broad St, Columbus, Ohio 43215

Speaker: Dennis Kovach – American Electric Power

Topic: Industrial Fire Protection

More often than not, industrial facilities are an afterthought when fire and building codes are being developed. For non-nuclear power plants there are two recommended practices (NFPA 850 and 851) and one standard (NFPA 853) available for protecting these hazards, yet few jurisdictions adopt those documents. As a result, performance-based designs and code variance requests are standard practices in the utility industry.

This presentation will look at several examples of design challenges and code conflicts experienced by a typical energy company. Case studies involving egress, sprinkler coverage, fire alarm signal transmission, and hazardous area classification will all be explored. The presentation will also look at what challenges lay ahead as the electric utility industry's fuel mix continues to evolve."

Dennis Kovach is the Lead Fire Protection Engineer within AEP Service Corporation's Generation Engineering Services department. His current responsibilities include providing fire protection engineering support for

approximately forty power plants and coal-handling facilities across eleven states in the AEP system. Mr. Kovach has served on the Ohio State Fire Marshal's Smoke Alarm Advisory Task Force, and has represented the Edison Electric Institute as a member of NFPA's Technical Committee on Gas Process Safety, responsible for NFPA 56, Standard for Fire and Explosion Prevention During Cleaning and Purging of Flammable Gas Piping Systems. Dennis is also a volunteer firefighter/EMT and fire inspector with the Monroe Township Fire Department in Licking County, Ohio.

Time: Registration 11:15 – 11:30 am
Lunch at 11:30 am
Program 12:15 pm

Cost: \$20.00 (Members)
\$25.00 (Non-members)

Reservations Deadline: Friday September 9, 2016 – 4 P.M.

Reminder: Those who use the "One-Pay" option still need to make a reservation.

Contact: Chad Miller
Chad.miller@comunale.com
614-338-9812

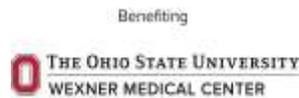
Reservations must be cancelled within 48 hours, or will be billed.

Future Meetings

March 8, 2017
 May 10, 2017
 June 23, 2017 Phil Gentile Golf Outing

Record Donation to the OSU Burn Center

The SFPE/OSU Burn Center golf outing was held on September 26, 2016 at the Scioto Reserve Country Club. The event was sold out with a total of 160 golfers participating. The SFPE Board has voted to donate **\$32,000** to the Burn Center. Our original donation was increased by \$2000 due to the challenges and matches made during the dinner/program. Money generated from the Phil Gentile Golf Outing was donated with the challenge for others to match. After a few minutes, our \$200 donation quickly escalated to \$2000. Special thanks to our generous donors.



Thanks to all who participated, volunteered or sponsored this outing.



2017 SFPE Board of Director's and Nominating Committee Election Results

The following were elected to serve, beginning their terms on January 1, 2017.

Our 3,776 members in good standing received a ballot and 948 voted, representing approximately 25% of the membership.

Officers

Paul Rivers, P.E., FSFPE Senior Fire Protection Specialist, 3M Company, will become President.

John "JC" Harrington, P.E., FSFPE, Assistant Vice President, FM Global, has been elected to President-Elect.

Jack Poole, P.E., FSFPE, Principal, Poole Fire Protection, has been re-elected as Secretary-Treasurer.

Milosh Puchovsky, P.E., FSFPE, Professor of Practice, Worcester Polytechnic Institute, will become Immediate Past-President.

Directors

Based upon the number of votes received, the following candidates were elected to a three-year term (2017-2019). They are listed in alphabetical order.

John Campbell, P.E., P.Eng., CFPS, FIFireE, EVP Engineering, Global Fire Protection Group

Wan Ki Chow, Ph.D., FSFPE, Chair Professor of Architectural Science and Fire Engineering, The Hong Kong Polytechnic University

Amanda Kimball, P.E., Senior Project Manager, Fire Protection Research Foundation

AFSA Announces New Ohio Chapter

DALLAS – Adding strength to numbers, the American Fire Sprinkler Association (AFSA), the nation’s leading fire sprinkler industry group, is pleased to announce the recent formation of its Ohio chapter. The decision to join the national trade group as its 22nd official chapter was made at a July 21 lunch meeting in West Chester, Ohio.

“I am proud to welcome the Ohio chapter into the AFSA family,” says AFSA Director of Member Services Bradley Elliott. “Many significant



achievements of our association are accomplished at the local level. The addition of our Ohio AFSA Chapter will help members in that area access important technical and legislative information as well as open the door for great networking opportunities.”

The newly elected officers include: Chairman Bill Hausman, A-1 Sprinkler in Miamisburg, Ohio; Vice Chairman Tom Doty, Craynon Fire Protection in Dayton, Ohio; Secretary/Treasurer Doug Stoeckel, ABCO Eckert Fire Protection in Cincinnati, Ohio; and Executive Director Don Eckert, AFSA of Ohio Chapter in Cincinnati. Also in attendance were Cincinnati contractors Tony Russo of RTF Fire Protection and Chris Meyer of Concord Fire Protection.

Initial efforts were focused in the southwest region near Cincinnati, but Eckert says chapter leaders are hoping to rally the rest of the state at its next meeting in October in Columbus, Ohio. Those interested in joining the Ohio chapter should contact Don Eckert at doneckert@outlook.com.

AFSA is a non-profit association representing fire sprinkler contractors. The association is dedicated to the educational advancement of its members and promotion of the use of automatic fire sprinkler systems. AFSA was organized in 1981 to provide the merit shop fire sprinkler contractor with training, consulting, communication, representation and many more

services, all of which have expanded over its existence. Membership is open to contractors, manufacturers, suppliers, designers and authorities having jurisdiction. Currently, AFSA represents companies and individuals across the United States and throughout the world. To find your local AFSA chapter or to learn more, visit firesprinkler.org.

Oakland Warehouse Hadn't Been Inspected for 30 Years

[Source: WSJ](#)

OAKLAND, Calif.—Complaints to the city about the warehouse that caught fire killing 36 people, and its adjoining lot, stretch back to 1987 and range from illegal construction to garbage piling up outside, city records revealed.

But city officials said Wednesday that no inspector from the Planning and Building Department had been inside the warehouse in the past 30 years.

Confusion over the address of the warehouse and an adjacent property may have contributed to the city failing to uncover problems within the structure known as the Ghost Ship, according to an account from officials.

Investigators said there was no evidence of fire detectors or a sprinkler system.

Though the warehouse was home to about 20 residents, city officials said the space wasn't permitted as a residence, or for concerts like the one held the night of the fire.



Darin Ranelletti, the interim head of Planning and Building, said Wednesday inspectors didn't enter the building for decades because no permits were sought, and because no complaints were submitted to his office for interior work at the warehouse address.

When the inspector visited that site three weeks before Friday's fire, he wasn't looking to get into the warehouse, Mr. Ranelletti said.

Earlier in the week, Mr. Ranelletti said the inspector had tried to access the warehouse on that visit but couldn't.

[Click here for the rest of the story:](#)

2 Teens Arrested in Tennessee Wildfires

[Source: USA Today](#)

Authorities have made two arrests — both teenagers — in last week's deadly wildfires.

Authorities made the announcement Wednesday during a news conference at the Sevier County Courthouse.

The teens remain in custody in Sevier County, charged with aggravated arson, said Jimmy Dunn, 4th Judicial District attorney general. They await a bond hearing in Juvenile Court and could be transferred to Criminal Court if prosecutors move to try them as adults.

"Everything is on the table," Dunn said.



He refused to give any details about the case, including the teens' ages or genders, except

that "They are not from Sevier County ... they are residents of Tennessee."

Sara Reynolds, a youth services officer in Sevier County Juvenile Court, wouldn't provide a copy of the petition charging either teen. State law typically denies public access to juvenile records, except in certain cases such as murder or rape. Arson isn't on the list.

[For rest of the story click here](#)

Wildfire in Ohio

[Source: Ohio DNR](#)

Each year an average of 1,000 wildfires burn 4,000 to 6,000 acres of forest and grassland within Ohio's forest fire protection district, which corresponds mostly to the state's unglaciated hill country.



Ohio's wildfire seasons occur primarily in the spring (March, April and May) before vegetation has "greened-up" and the fall (October and November) when leaf drop occurs. During these times and especially when weather conditions are warm, windy and with low humidity, cured vegetation is particularly susceptible to burning. Fuel (vegetation, woody debris), weather (wind, temperature, humidity) and topography (hills and valleys) can combine to present an extreme danger to unwary civilians and firefighters in the path of a wildfire.

In a typical year it is estimated that more than 15,000 wildfire and natural fuel fire occurrences are encountered statewide. These fires are attributed primarily to the careless burning of debris and result in untold damage to trees and

landscape, water quality, and improvements such as fences and outbuildings. These preventable fires put people and their homes at significant risk.

[For more information, click here.](#)

[Kidde recalls millions of combination smoke and carbon monoxide alarms](#)

[Source: NFPA Xchange](#)

Kidde is recalling millions of NightHawk combination smoke/carbon monoxide (CO) alarms sold in the United States and Kidde combo alarm are being recalled in Canada. According to Consumer Affairs, the alarm can fail to continue to chirp when it reaches its seven year end of life if the batteries are replaced, leading consumers to believe it's still working. This poses a risk to consumers of not being alerted to a fire or CO incident in their home.

The company has received reports of incidents with the recalled alarms, but no injuries have been reported. The recall involves Kidde NightHawk talking combo smoke/CO alarm, model number KN-COSM-IB and manufacture dates between June 1, 2004 and December 31, 2010.



The alarms are hard-wired and the unit has a compartment on the back for a replaceable 9-volt battery. Consumers may contact Kidde online or call 855-239-0490.

Hot Work Activities Are Involved in an Average of 4,440 U.S. Structure Fires Per Year

[Source NFPA Xchange](#)

Hot work is an important part of manufacturing, repair, renovation, construction and demolition activities. Professional contractors and do-it-yourselfers can get in trouble when they don't follow the basic safety precautions.

NFPA's new report, Structure Fires Started by Hot Work, shows that in 2010-2014, U.S. fire departments responded to an estimated average of 4,440 structure fires involving hot work per year. These fires caused an average of 12 civilian deaths, 208 civilian injuries and \$287 million in direct property damage per year.

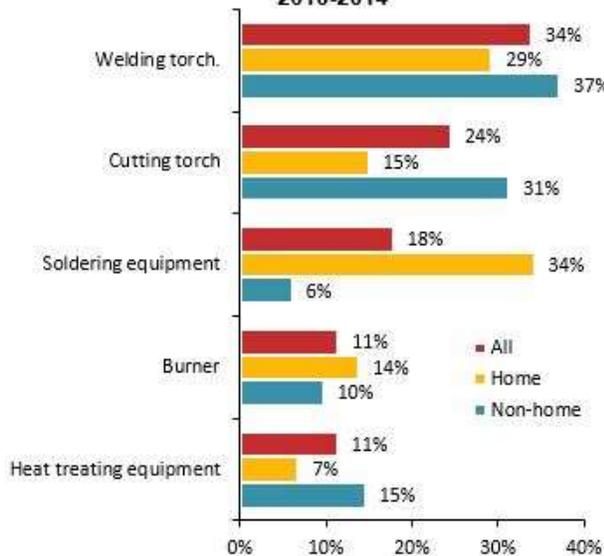
I suspect that those who regularly conduct hot work or oversee contractors who do so will not be surprised by the statistics from the report.

Forty-two percent of hot work fires occurred in or on homes.



Welding torches were involved in one-third (34%) of total hot work structure fires. Cutting torches were involved in one-quarter (24%), soldering equipment in 18%, burners in 11%, and heat treating equipment in another 11%. The leading types of hot work equipment involved in fires are different in homes than in non-home properties. As the graph shows, soldering equipment was the most common type of hot work involved in home fires while welding torches were the most common in non-home fires.

All, home and non-home hot work fires by leading equipment involved 2010-2014



Home fires involving hot work were most likely to start in either wall assemblies or concealed spaces (15%), and bathrooms or lavatories (14%). For non-homes, the peak areas of origin were exterior roof surfaces (12%) and process or manufacturing areas (9%). The majority of hot work fires started when the work was done too close to something that could catch fire.

One-quarter (25%) of home hot work fires began with the ignition of structural members or framing; 22% started when insulation ignited. Fifteen percent of non-home hot work fires occurred when flammable or combustible liquids or gases caught fire; 10% started with exterior roof coverings or framing; another 10% began with structural members or framing; and 9% started with insulation.

The report also contains descriptions of hot work fires from NFPA Journal and OSHA's accident investigation summaries to provide more information about how these events can occur.

NFPA 51B, Standard for Fire Prevention during Welding, Cutting, and Other Hot Work provides guidelines to prevent these incidents.

FM Global: Next Generation Fire Sprinklers Aimed at Curbing Warehouse Fires

Source: FM Global

Warehouses, served by increasingly powerful automated materials-handling equipment, are steadily getting taller, posing new fire risks and stressing traditional fire protection systems like heat-triggered ceiling sprinklers.

FM Global, a global commercial property insurer, has pioneered research on next-generation sprinklers that, if brought to market, are designed to activate earlier and in batches, better suppressing highly challenging fires. A new FM Global report (www.fmglobal.com/researchreports) provides an early glimpse into their reliability and cost-effectiveness. It complements information from actual fire testing already documented in two previously issued reports.

As conceived, new “SMART sprinklers” (SMART stands for simultaneous monitoring, assessment and response technology) will use multiple sensors and programmable logic to extinguish fires more quickly with less water, theoretically enabling warehouses to be bigger, use less-expensive water systems and store more challenging materials.

“In order to provide their benefits, SMART sprinkler systems are more complex,” said FM Global Vice President of Research Louis A. Gritz, Ph.D. “That’s why we have performed research on their reliability and costs as well as their benefits. These variables are important to our clients in designing resilient storage solutions.”

The research envisioned highly challenging fire risk conditions, meaning those outside the scope of existing FM Global protection recommendations. An example is a warehouse storing paper rolls in stacks taller than 42 feet (12.8 meters) protected by SMART sprinklers. The study compared this scenario to conventional risk conditions—a warehouse

storing standard materials at a height below 42 feet and employing traditional sprinklers.

The new report, called “Evaluation of the Availability of the SMART Sprinkler System,” found that:

- Estimates of the availability of these early wired and wireless SMART sprinkler configurations (i.e., their ability to operate when called upon) is 86 percent and 83 percent, respectively, over a 30-year product lifetime—compared to 97 percent for an established, traditional sprinkler system.
- The gap between SMART sprinkler availability and that of traditional sprinklers can be roughly halved by increasing inspection, testing and maintenance from once to twice yearly.
- The estimated lifetime cost of inspection, testing and maintenance of traditional sprinklers is 50 percent lower than that of SMART sprinklers.

In a sample case used to provide a preliminary evaluation of the technology, initial installation cost for a 55,000-square-foot (5,110-square-meter) warehouse was estimated to be US\$280,000 for traditional sprinklers, US\$710,000 for wired SMART sprinklers and US\$740,000 for wireless SMART sprinklers. Actual cost would vary widely depending on the setting, vendors and configuration.

“Like all technology, fire protection solutions are evolving in exciting new ways and will continue to evolve,” said Gritzo. “Our role is to provide innovative solutions to the marketplace, inform clients about their options, guide them so they can make good decisions and help prevent losses that could harm their business.”

The SMART sprinkler used in the research was a proof-of-concept design created by FM Global researchers, not a commercially available product. Therefore, the availability and cost-benefit values are intended only as initial guidance for companies considering placing such a product on the market and for clients for whom the product might provide net benefit.

Johnson Controls and Tyco Complete Merger

[Source: John Controls](#)

Combined company creates the global leader in buildings and energy solutions

CORK, Ireland, Sept. 6, 2016 /PRNewswire/ --

With a vision to create a safe, comfortable and sustainable world, a newly formed Johnson Controls (NYSE:JCI) begins operations today following the successful completion of its merger with Tyco, marking a historic turning point for both companies.



By uniting Johnson Controls, the number one provider of building efficiency solutions with Tyco, the number one provider of fire and security solutions, the new company is uniquely positioned as a leader in products, technologies and integrated solutions for the buildings and energy sectors.

[Click here for the rest of the story](#)

SFPE Job Board

<http://jobs.sfpe.org/>

The Society of Fire Protection Engineers and Fire Protection Engineering magazine are pleased to offer an Internet Job Board site featuring career opportunities in fire protection engineering. <http://jobs.sfpe.org/> is designed for communicating the availability of employment opportunities in the fire protection engineering market. This special job board is ideal both for those seeking to fill positions and those looking for employment opportunities in fire protection engineering.

Whether you're looking to make a career move, or you need to fill a fire protection engineer opening, <http://jobs.sfpe.org/> is just a click away!

Join the National Society of Fire Protection Engineers

The Society of Fire Protection Engineers (SFPE) is the professional organization that represents fire protection engineers worldwide. Through its membership of over 5,000 professionals and 63 chapters, SFPE advances the science and practice of fire protection engineering internationally.



For more information, visit <http://www.sfpe.org/GetInvolved/Membership/Join.aspx>.

Web Links

SFPE Central Ohio Chapter
www.sfpecoc.webs.com

Society of Fire Protection Engineers (National) www.sfpe.org

American Fire Sprinkler Association
www.firesprinkler.org

ICC Website
www.iccsafe.org

National Fire Sprinkler Association
www.nfsa.org

N.I.C.E.T.
www.nicet.org

Ohio State Fire Marshal
www.com.state.oh.us/sfm

OSU Fire Safety Website
www.firesafety.osu.edu

Underwriters Laboratories
www.UL.com

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