



FIRE BUCKET



January 2024

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

[SFPECOC Web Site](#)

Next Meeting

Date: January 10, 2024

Location: TAT Ristorante Di Famiglia
1210 S James Rd, Columbus, OH 43227



Speaker: Brad R Kappeler, Autocall Business Development Manager, Johnson Controls Global Fire Protection Products

Topic: Introduction to New Fire Alarm Technology Addressable Notification and 29 V Power Supply

Cost: \$23.00 (Members)
\$28.00 (Non-members)

Make Reservations with:
Bob Fischer
bfischer@supplynet.com
440-463-0720

Reservations Deadline: Friday January 5, 2024 – 5:00 P.M.

Everyone who plans to attend, including pre-paid members, must make a reservation and check-in with John Falk at the meeting.

Ordering items not on our set menu options will require additional payment.

Annual Chapter Dues

The annual chapter dues are \$20. The dues are used to support the chapter operations and promote our chapter.

We also offer a One-Pay option. For \$112, you get you annual dues and 5 chapter meetings. The annual membership runs from September to September. The meeting do not carry over from year to year.

You can pay your annual dues on our Chapter On-Line Payment Center. This secure site is operated by Square. Click here to go to the site.

<https://sfpe-centralohio.square.site/>

The site works in Chrome, Edge and on iPhone. It does not work on Internet Explorer.

Meeting fees can be paid online at <https://sfpe-centralohio.square.site/>

**SFPE - Central Ohio Chapter
On-Line Payment Center**

Future Meetings

Chapter Meetings

March 13, 2024

May 8, 2024

Golf Outings

SFPE – Phil Gentile Outing - TBD

Burn Center Outing – September 23, 2024

2023 Burn Center Outing

The 34th Annual Burn Center Outing was held Monday September 25, 2023 at The Medallion Club.

The outing once again sold out with 180 golfers. This year's winners were the team from Koorsen Fire & Security of Tim Toth, Zach McMichael, Jeff Scalise, Dan Melton. They shot 16 under par.

We are pleased to announce that this year's outing generated a donation of **\$50,000** for the two burn centers.

Checks were presented at our November Chapter meeting.



The 35th Burn Center Outing will be held on September 23, 2024. Details will be available in the next few months.

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Great Christmas Video from Columbus Fire House Station 23

Source: Internet



This is a great video from Columbus' finest.
[Check it out.](#)

Fire Sprinkler System Cost Factors and Considerations: Why It's Worth It

Source: Bob Vila

A house fire can be devastating, especially if fire detection methods in place are not working or are improperly installed. To protect a house and its occupants, many homeowners opt to install a full fire sprinkler system. These sprinkler systems are proven to reduce civilian fire fatalities by 89 percent and reduce injury rates per fire by 27 percent, according to the National Fire Protection Association.

The majority of fire-related deaths happen in residential homes, and most people consider fire sprinkler systems a part of commercial buildings. However, residential fire sprinkler systems can prevent tragedy and protect

belongings. According to Angi, fire sprinkler system cost falls between \$0.80 and \$7 per square foot with a national average of \$2 per square foot. The cost primarily depends on whether it's installed in a new build or an existing home, the size and location of the home, and the materials used.

For the entire story, [click here](#)



[State Fire Marshal Office Donates Toys to Nationwide Children's Hospital Burn Unit](#)

[Source: State Fire Marshal](#)

State Fire Marshal Celebrates Decade of Giving to Nationwide Children's Hospital

COLUMBUS, Ohio — The Ohio Department of Commerce's Division of State Fire Marshal (SFM) marked a decade of unwavering commitment to support the Burn Center at Nationwide Children's Hospital with their toy and check presentation.

SFM's annual toy drive fundraiser, which has become a staff tradition for the last ten years, has raised thousands of dollars to aid the burn center in their mission and provide toys to the patients there. The Nationwide Children's Hospital Burn Center is a dedicated facility, committed to providing comprehensive care to pediatric burn victims. The center provides everything from emergency care to rehabilitation, tirelessly working to help children heal both physically and emotionally.

"The hospital stands as a beacon of hope for pediatric burn victims," State fire Marshal Kevin Reardon said. "Through our annual toy drive fundraiser, we're proud to aid their mission and bring smiles to the faces of these courageous children."

On the day of the event, SFM staff along with Sparky the fire prevention mascot, accompanied by a ladder truck and an engine truck, arrived at Nationwide's Care Center. SFM staff and Sparky met with patients and staff to allow children to explore the trucks and answer questions about fire safety, handed out toys and presents, and toured the facility.

"We are incredibly grateful to the State Fire Marshal for its dedication to our patients at the Burn Center at Nationwide Children's Hospital the last 10 years," said Dr. Rajan K. Thakkar, co-director of the Burn Center. "The annual toy drive fundraiser makes a tremendous impact on the lives of children, and we are thankful for their continuing commitment to our mission."

For more information about the Nationwide Foundation and how to donate, please visit <https://www.nationwidechildrens.org/giving/about-nationwide-childrens-hospital-foundation>

Check out the Facebook Video by [Clicking Here](#)



Flue Spaces in Racks – NFPA 13 vs. FM Global Data Sheet 8-9

[Source: Risk Logic](#)

Flue spaces are necessary for rack storage arrangements to allow heat from a fire to quickly vent vertically. This is critical in order to help ensure the ceiling-level sprinklers will operate as quickly as possible. When flue spaces are blocked, this leads to greater horizontal fire spread within the rack, thus increasing the fire area. Flue spaces are also necessary to allow sprinkler water penetration down through the racks. This is extremely important when ceiling-only automatic sprinkler protection is provided. Without sufficient water penetration to burning commodities stored on the lower tiers of the racks, fire suppression and/or control may not be achieved and extensive fire damage could result.

Advances in sprinkler technology (i.e., suppression mode or ESFR sprinklers) in the last 25 years or so have been effective in reducing the need for in-rack automatic sprinklers (IRAS) in storage racks in buildings as high as 45 ft. When ceiling-only automatic sprinkler protection is provided in buildings this high, it becomes even more of a necessity to maintain adequate flue spaces in racks. If the center-core of the sprinkler discharge is blocked, then fire suppression may not be achieved. Obstructions and blocked flue spaces can slow down the velocity of sprinkler discharge and reduce water droplet size to a point that it cannot penetrate the fire plume, thus making the sprinkler ineffective.

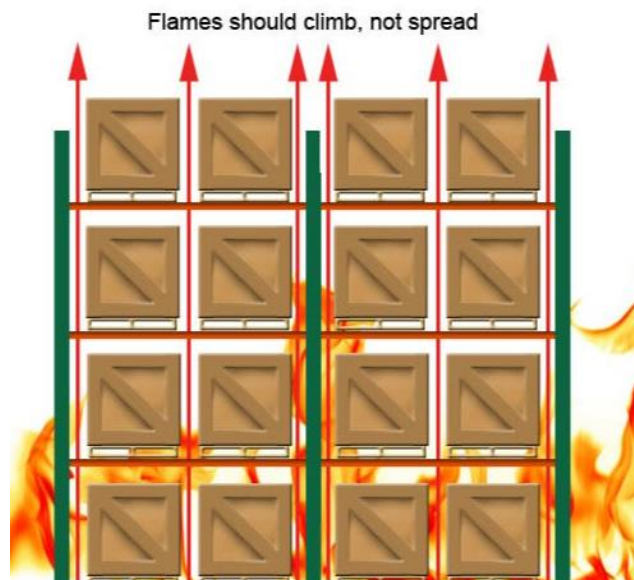
Both NFPA and FM Global recognize the importance of flue spaces and have addressed this in their respective rack storage standards for many years. Until about 5 years ago, the requirements or recommendations were mostly the same. Below are some of the highlights in the current editions of the applicable standards.

The Main Differences between the two Standards:

NFPA 13 allows random variations in the width of the flue spaces or in their vertical alignment and FM Global Data Sheet 8-9 does not. It

should be noted that previous versions of FM Global Data Sheet 8-9 (as recent as May 2006) allowed random variations in the width of the flue spaces or in their vertical alignment. The January 2008 edition of the Data Sheet changed the recommendation to “Maintain vertical alignment of flue spaces as closely as possible.”

FM Global Data Sheet 8-9 does not require longitudinal flue spaces in double-row racks to any height, while NFPA 13 requires nominal 6 in. longitudinal flue spaces in double-row racks over 25 ft.



FM Global is more prescriptive with regards to transverse flue widths and horizontal spacing. To be effective as outlined above, flue spaces must be a minimum net width of 3 in. and ideally about 6 in. wide. A flue space's net width is a measure of its gross width minus any horizontal obstructions, such as rack uprights, located within the flue space.

Read the complete article by [clicking here](#)

Editors Note: This is an older article, but it provides a good explanation of the differences between NFPA and FM.

Water Tower Collapse Compilation

[Source: YouTube](#)

An interesting compilation of water tower collapsing videos. [Click Here.](#)



Recent LA Highway Blaze Highlights How Ecosystem Failures Can Lead to Catastrophe

[Source: NFPA](#)

A fire that severely damaged an overpass in Los Angeles over the weekend highlights the fact that safety is achieved through a complex system of interconnected components. When one or more of those components fails, the whole system can break down.

For several years, NFPA has referred to such a system as the NFPA Fire & Life Safety Ecosystem™. The ecosystem includes eight components that must function together to help create safer communities: government responsibility, development and use of current codes, referenced standards, investment in safety, skilled workforce, code compliance, preparedness and emergency response, and informed public.

In the case of the recent LA blaze—the aftermath of which is expected to snarl traffic along a busy stretch of Interstate 10 in downtown LA for weeks—failures in code compliance, development and use of current codes, and government responsibility are the

most likely culprits for the system breakdown that led to the costly incident.

According to media reports, the space underneath the I-10 overpass that burned Saturday night was being leased to private entities by the California Department of Transportation through a government program. But oversight was lacking and compliance with applicable codes and standards was allegedly ignored. “This guy and this organization, whoever the members of that particular organization are, have been bad actors,” said California Governor Gavin Newsom, according to KTLA. “We’ve been in a litigious posture for some time. They stopped paying their rent, they’re out of compliance, and as was stated yesterday ... they have been subleasing this site to at least five, maybe as many as six tenants, without authorization from [the Department of Transportation] or authorization from our federal partners.”



Pallets and sanitizer: a dangerous combo

Although authorities are still investigating the exact circumstances that led to the fire, sources with knowledge of the incident have told news outlets that it appears to have been intentionally set and that the storage of wood pallets and hand sanitizer under the overpass contributed to the intensity of the blaze. Both wood pallets and hand sanitizer are known to fuel fires.

“Pallet fires release large amounts of energy and can spread to adjacent materials, buildings, and structures,” said Robin Zevotek, an engineer at NFPA. “This is in part because stacked pallets provide ideal airflow spaces that contribute to fire spread while, at the same time, pallets toward the top of a stack shield the

ones on the bottom of a stack, making suppression difficult. Fires involving pallets, whether they are wood or plastic, is a challenge for firefighters.”

For the complete article, [click here](#).

Fire at the Ryder Cup

[Source: YouTube](#)

A structure at Marco Simone Golf and Country Club near Rome, Italy, went up in massive flames on Thursday just days after the club hosted the 2023 Ryder Cup.

A video surfaced on social media of a three-story hospitality stand engulfed in fire, producing large black smoke clouds that could be seen from miles away. Local news stated that five teams of firefighters are on the scene and that no injuries were reported. A notice was sent to local residents to close their windows.



“A fire was reported in one of the temporary hospitality structures to the right of the first fairway at Marco Simone Golf and Country Club earlier this afternoon,” a statement from Ryder Cup Europe read. “Local fire crews were called to the scene at 5:07 p.m. local time and quickly brought the blaze under control. Nobody was

injured in the incident and the fire did not spread beyond the hospitality structure. There was no damage to the golf course or any over structure. The cause of the fire is currently being investigated.”

Click on the picture for the video. Or [click here](#) for the complete story.

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Society of Fire Protection Engineers Central Ohio Chapter

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ARE YOU A NATIONAL MEMBER IN SFPE? YES NO

The annual are \$20. We also offer a One-Pay option. For \$112, you get you annual dues and the 5 chapter meetings. The MCACO meeting is not included. You must pay the full \$112.00 with this membership application or renewal to take advantage of this new program. Annual members runs from September to September and the meetings do not carry over from year to year. Membership in the Chapter includes the member fee for meetings, and a subscription to *The Fire Bucket*, our Chapter's Newsletter

You can pay your annual dues on our Chapter On-Line Payment Center. This secure site is operated by Square. Click here to go to the site.

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Please make check payable to *Central Ohio Chapter, SFPE*. Applications can be submitted at the next meeting. Please complete a new application every year, so we can keep our database current. Dues run from September 1st to August 31st of each calendar year.