

FLASHPOINT

Special points of interest:

- * SFPE Webinar Series: Fire Safety Gone Viral
- * Volunteers Needed: Future Cities Competition
- * Seminar & Tradeshow—postponed to Oct 2021

NEW YEAR! NEW PROGRAMMING! NEW PLACE!

Date: Tuesday, January 12, 2021

Place: *** Virtually via Microsoft Teams ***

5:00 PM: Program Begins

Program: How to efficiently design and calculate a Clean Agent System in Revit; Presented by Brendan Kerrigan from Viking Group Inc. This presentation will include a live demonstration of Viking's Clean Agent Assistant program.

Cost: \$15.00 for the program

RSVP ONLINE AT:

<https://forms.gle/1zPPNZBg6VnqtU9q8>

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****New!!** SFPE Philadelphia Delaware-Valley Pay your Dues Online!** Thanks to Lokesh Nigam, we are now set up for easy online payment of dues and monthly meetings. Check it out at our website, www.sfpephiladelphia.org, and in the lower right-hand corner of the page there is a heading "Payment Options". Pick from the drop-down menu whether you are paying for annual dues, a virtual meeting, or an in-person meeting, click "Buy Now" and you will be directed to PayPal for processing.

Officers for 2020-2021

The officers elected at the May 2020 business meeting are as follows:

President: Steve Oliver

1st Vice President: Jack Fairchild

2nd Vice President: Ryan Schartel

Secretary: Tim Murray

Asst. Secretary: Phil Kerschner

Treasurer: John Spitz

Directors 2019-2021: Frank Ellis, Josh Popek

Directors 2020-2022: Joe Chew, Lokesh Nigam

President's Spark by Steve Oliver, PE, MBA

Monthly Presentations

In December we 'Zoomed' to an island in the Southwest Pacific Ocean- New Zealand. After joking about being able to predict the future (it was a day later in NZ), and hearing the air conditioner running in the background, Justin McEntyre provided a presentation based around Passive Fire Protection. He is the current chairperson for the Fire Protection Association of New Zealand (FPANZ) Passive Fire Special Interest Group (SIG).

Happy New Year! 2020 has been a year filled with change, and our SFPE chapter has been a part of the changes. Thanks to a strong group of dedicated members, we were able to shift to a virtual training format, and continue our monthly educational seminars. This has had some tremendous benefits. Now our own SFPE members can join in on monthly meetings from the warmth of their own homes, or wherever they may be. It is more convenient. However, one important part of our chapter that we have had to put on hold (temporarily) is the social aspect. Many of us look forward to dinner with our SFPE friends, building rapport, networking, asking advice, and telling stories about fire protection projects.

With distribution of a vaccine currently taking place, we are one step closer to resuming these meetings. It is hard to tell when this will happen, but the Board has been having discussions regarding our planned April seminar and trade show. We will be voting next week on pushing it 6 months, to a time where we hope (again) that the community will be in a better place to participate in group gatherings. Please stay tuned for a potential date change.

When the COVID crisis hit, and social distancing was 'new' terminology, one of the biggest fears of the chapter leaders was if we would be able to keep our financial commitments (donations) that we had in past years. The chapter's income had been based on in-person meetings, outside of the trade show and seminar income, which we've been able to commit to the scholarship fund. We discussed charging for virtual meetings as being the best option, and hoped that our members would understand and continue to attend (and donate) for the meetings.

It has been 9 months and I am happy to report that we've been able to continue to donate to the worthwhile causes as we have in past years. In November, we were able to donate \$300 to the 2021 Future Cities Competition. This Competition is proceeding, except in a virtual format. In October, we sent a \$500 donation to the SFPE Foundation. Our chapter was recognized for this donation at the November virtual SFPE national meeting, where our own Jeff LaSalle received recognition as an SFPE Fellow and the chapter received a Gold ACE award. Despite the challenges, 2020 has been a good year for SFPE Philadelphia Delaware Valley.

I am especially proud of our membership and their commitment to our industry, dedication to giving back to important causes, and ability to adapt to change. It is an honor to serve this group.

I look forward to seeing you all in 2021. Happy New Year!

-Steve

FLASHPOINT

"The purpose of FLASHPOINT is to provide a forum for the transfer of information between members of the Philadelphia-Delaware Valley Chapter of the Society of Fire Protection Engineers (SFPE) and to give the Chapter visibility."

Newsletter/Publicity Committee:

Tim Murray

Information for publication can be submitted to:

dvsfpe@gmail.com

This Newsletter is published 9 or 10 times/year (September through June) and received as part of membership of the Chapter. Membership Dues are \$30.00 collected annually in the Fall of the Year.

Visit our web site at:

www.sfp Philadelphia.org

Articles written are the views of the Author and not necessarily those of the Philadelphia-Delaware Valley Chapter of SFPE. ❖

January 2021 Speaker's Bio & Additional Program Info

Brendan Kerrigan

Brendan is on the Digital Solutions team at Viking Group Inc, was previously part of SprinkCAD Group at Tyco/JCI. Brendan holds a Masters Degree in Fire Protection Engineering.

Learning Objective

How to efficiently design and calculate Clean Agent System in Revit

The presentation on Viking's Clean Agent Assistant demonstrates the creation and calculation of a Clean Agent (FM 200 or NOVEC 1230) system in Revit per NFPA 2001. Viking's Clean Agent Assistant program is a free software and is included in the Viking Tools for Revit add-in.

This presentation is a live demonstration of the software and will flow as follows:

- 1) Where to obtain the software, and where tutorials are located <https://digital.vikingcorp.com>
- 2) How to create a reference geometry for the room (s) to be protected in Revit (if model not provided by architect)
- 3) How to extract the protected volume (s) from Revit. This can avoid errors / improves accuracy of protected volume. When properly defined can handle volume extraction of non-rectangular rooms and sloped ceilings quite well.
- 4) How to choose parameters of the system such as design concentration and discharge time when designing per NFPA 2001. How things impacting the agent quantity calculation such as altitude can be extracted from the Revit drawing.
- 5) How to select an appropriately sized / filled container or containers for the system, and how to represent the required floor space in Revit coordination.
- 6) Discuss pipe and fittings automatically provided by the software to conform with NFPA 2001 requirements.
- 7) How to lay out discharge nozzles for the system per their listing and approvals.
- 8) How to run the hydraulic calculations to verify system performance.
- 9) How to generate a submittal document for an AHJ or include system details such as agent quantity calculations in your drawings/sheets.
- 10) Review included vent area calculations per FSSA guidelines.

Future Cities Competition Request for Volunteers:

Hello from Future City Philadelphia!

The Future City competition is still on with 28 schools still in the running! We are getting down to the wire with the competition set for Saturday, January 30th! This year's competition will be held virtual via Zoom.

We still need many more Model/Presentation and Special Award judges. All volunteers will need to attend a training session via a Zoom Meeting even if you have previously participated. There will be new procedures to follow since the competition will be virtual. Details are still being developed.

This year's Future City Theme is Living on the Moon.

The Competition Challenge:

Design a future lunar city and provide examples of how your city uses two Moon resources to keep your citizens safe and healthy.

Judges Responsibilities:

Model/Presentation/Q&A Judge: All judging will be done virtually this year using Zoom and judges will input their scores into the Competition Management System (CMS). There will be three deliverables for each team that the judges will need to evaluate. The Model Slideshow (a pdf file) and a seven-minute Video Presentation will be available shortly after January 16; both will need to be judged and scores inputted into the CMS by January 26. The live ten-minute Q&A Session will be the morning of January 30. We anticipate that each judge will evaluate five to six teams and will need to evaluate all three elements for these teams. Rubrics will be provided for each deliverable. Training before the competition will be provided.

Special Awards Evaluator: Select which teams meet the criteria for a Special Award. Evaluators will be able to review team model slideshows and video presentations (available shortly after January 16) before the competition. These will also be available on the day of the competition. Evaluators will need to be available on the morning of January 30 to meet with teams virtually for Q&A. Scores will be recorded online which can be done using a mobile device while the a computer is used for Q&A via Zoom with the students. Training and detailed instructions will be provided.

Other Volunteers Needed:

Competition Support and Zoom Hosts: If you have been a "Competition Support" person in previous years, this is the equivalent role in the virtual world and we still need you regardless of Zoom experience. Zoom is our virtual platform and we need assistance both before and on the day of the competition to keep everything running smoothly. Individuals of all experience levels, including none, are needed. Duties will range from being virtual escorts for teams to helping to set up our virtual convention center. Instead of photographers we need people who can do screen captures. Training will be provided at all levels as needed.

Zoom Experts and Tech Gurus: The 2021 Philadelphia Future City Competition will be held in a virtual convention center and have about 50 simultaneous Zoom meeting throughout the morning. If you are already a Zoom expert or are an experienced tech person and know Zoom really well or want an excuse to learn more about it, we need you to help us pull this off. HTML and CSS skills would also be helpful but not required.

If you are interested in getting involved, please visit the following link to sign up:

<http://www.futurecityphilly.org/fcvolops.html>

SFPE WEBINAR SERIES

Fire Safety Gone Viral

Sponsored by: Fire Service Subcommittee

January 13 | 1:00-2:00 PM EST

Moderated by Jack Poole, P.E., FSFPE, 2021 SFPE President



Brad Cronin, CFPS



Gary Dominguez, EIT



Mark Dubbin, P.E.



Jack Poole, P.E., FSFPE

Join Brad Cronin, Gary Dominguez and Mark Dubbin for the first webinar sponsored by the Fire Service Subcommittee. This one hour roundtable panel will include members of SFPE's Fire Service Subcommittee as they discuss how they have encountered fire safety issues that are a direct result of COVID-19. As businesses struggle to reopen and attempt to follow jurisdictional guidelines, their solutions to reduce the spread of the virus often have fire safety implications that were never considered. Whether it's obstructed sprinklers from temporary partitions, impediments to fire department access from tents, or blocked exits from devices meant to corral people in a certain pathway, this new strain of code violations is present in some form in almost every jurisdiction.

Join us as we discuss some of the issues that have been encountered as well as solutions to these now common issues.

To register, visit: <https://www.sfpe.org/events-education/sfpewebinarseries>



Seminar & Trade Show Update



To protect the health and safety of everyone, **the Executive Committee and Board have decided to postpone the April 2021 Seminar & Trade Show to October 2021** in King of Prussia, PA.

We have made this decision by following the recent upward trend in Corona virus cases and our concern for the health and safety of all those who would attend the event.

The event will still take place at the Sheraton in King of Prussia, PA. Once official, **the new October date will be published**. We expect this date to be confirmed very soon.

Thank you for your understanding and support. We apologize for any inconvenience this may cause, but we are prioritizing the health of everyone who would be attending.

We look forward to seeing everyone in October.

October 2021

8 am—4:30 pm

Sheraton – Valley Forge

480 North Gulph Road

King of Prussia, PA 19406



The Engineer and The Engineering Technician Designing Fire Protection Systems

In case you missed the announcement from SFPE, there is a new Position Statement, 2020-1, which is an update of the 2008 document on the roles of engineers and engineering technicians in the design of fire protection systems. This update was a major undertaking by the SFPE Committee on Professional Qualifications – Public Policy Subcommittee, as well as by members of the endorsing organizations. While to some, the roles of engineers and engineering technicians in the design process may seem obvious, the practices may vary across jurisdictions and around the world. This fact, and the repeated attempts in various state legislatures to subvert engineering licensure mandate that we continue to advocate for fire protection as a distinct engineering discipline. Understanding and respecting the roles of all fire safety professionals is essential to the success of these efforts.

The full announcement is here:

The SFPE Board issued an update to the position statement on the roles of engineers and engineering technicians when both are working on the fire protection of a project. The revised version can be found at <https://www.sfpe.org/advocacy-qualifications/public-policy>. It replaces the July 2008 position statement. The exciting piece for this document is the number of endorsing organizations that have signed onto this statement for fire protection including ABET, AFAA, AFSA, ASCET, FSSA, NCEES, NFSA, NICET, and NSPE.

Conceptually, the position remains that both engineers and engineering technicians can work together harmoniously on fire protection projects, with each having a distinct role when both the engineer and engineering technician are part of the job. The position also remains that all parties need to be qualified for the role they are serving in the project. The position statement explains the roles of those in the field of fire protection who contribute to public safety, including licensed Professional Engineers and Certified Engineering Technicians.

2020 SFPE PDVC MEMBERSHIP NEWS

To enhance our distribution list and make sure that we are using the most up-to-date information to reach out to all of our membership, we ask that you please submit a new membership form with every membership renewal. Membership forms can be submitted digitally to dvsfpe@gmail.com or mailed in with your annual dues. Annual dues are now \$35 and can be paid by mailing a check or by visiting our website at www.sfpephiladelphia.org and following the instructions on the front page of this Flashpoint.

UPCOMING PHILADELPHIA-DELAWARE VALLEY SFPE MEETINGS AND EVENTS:				
Date	Meeting Type	Event	Location	Time
1/12/2021	Monthly Meeting	Clean Agent System Design	Microsoft Teams	5:00 PM
2/9/2021	Monthly Meeting	TBD	TBD	5:00 PM
3/9/2021	Monthly Meeting	TBD	TBD	5:00 PM
4/13/2021	Monthly Meeting	TBD	TBD	5:00 PM
POSTPONED to OCT 2021	Seminar and Tradeshow	Seminar and Tradeshow	POSTPONED to OCT 2021	POST-PONED
5/11/2021	Annual Business Meeting	Annual Business Meeting	TBD	TBD



Philadelphia-Delaware Valley SFPE

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Mission Statement

The Philadelphia/Delaware Valley Chapter purpose is to advance the art and science of fire protection engineering and its allied fields, for the reduction of life and property losses from fire, to maintain high ethical standards on engineering among its members and to foster fire protection education.

Recognition of fire protection engineering as a discrete engineering discipline is a prime goal. Engineering disciplines exist because there is a special body of knowledge based on the fundamentals of mathematics, physics, chemistry, engineering science and economics.

The chapter strives to facilitate sharing of sound engineering experiences and knowledge between its members and the fire protection community in general with an active program of education and scholarship activities.

Flashpoint Job Announcements

The SFPE Philadelphia Delaware Valley Chapter Board of Directors has decided that fire protection engineering related job announcements will be welcomed in the Flashpoint newsletters. Job Announcements will be \$50 per month for a 1/3 page advertisement. Submittal of artwork / text to be included in the advertisement is required. If you are interested, please reach out to the DVSFPE Secretary, Tim Murray, at dvsfpe@gmail.com.