

FLASHPOINT

Special points of interest:

- * Pay your 2019-2020 dues!
- * Spring Seminar & Tradeshow Information
- * Scholarship Information

UPCOMING MEETING INFORMATION:

Date: Tuesday, February 11, 2020

Place: Jacobs Engineering Group
2 Ash Street, Suite 3000
Conshohocken, PA 19428

5:30 PM: Fellowship Time

6:00 PM: Program

Program: Deflagration Venting
Presented by Explovent

Dinner will be provided

Cost: \$30.00 (cash or checks payable to Philadelphia-Delaware Valley SFPE)

Reservations: By 12:00 Noon Friday, February 7, 2020

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RSVP ONLINE AT:

<https://forms.gle/ncpMcasctSS8x3iv7>

Officers for 2019-2020

The new officers elected at the May 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 2018-2020: Jay Stough, Ben Young

President's Spark by Steve Oliver, PE, MBA

Last week, on January 28th, SFPE members shared a meeting with the NFSA and AFSA. It was a huge success, and was truly amazing how many significant players in the fire protection market were in attendance, both locally, and nationally. Attendees included engineers, contractors, suppliers, distributors, and association representatives. SFPE's Chris Jelenewicz, PE, FSFPE was in attendance and spoke to the group about happenings from SFPE national. The common thread between attendees of all associations, was and is, the desire to move the fire protection industry forward. I took a moment to review the mission statement for the associations present at the event, including ASCET, and wanted to share them with you below. Can you guess which is associated with which organization?

1. "To protect lives and property from fire through the widespread acceptance of the fire sprinkler concept."
2. "To define, develop, and advance the use of engineering best practices; expand the scientific and technical knowledge base; and educate the global fire safety community, to reduce fire risk."
3. "... promotes the A) Development of educational and training programs to maintain the quality and effectiveness of automatic fire sprinklers. B) Encourages an expanded role for automatic fire sprinklers in protecting lives and property. C) Disseminates information on labor, technology, and business. And D) Provides programs to enhance business practices..."
4. "... provides opportunities for technicians and technologists to magnify their status as vital members of the engineering team."

There are a few key words that help identify which association the mission statements would match with. #1 and #3 may be tough, but if I told you that #3 was associated with merit contractors, I think you'd have them all figured out!

We've gotten a tremendous interest thus far in the upcoming April 16, 2020 SFPE Trade Show and Seminar. Vendor booth spots are just about filled, and attendees have been signing up. The expected speakers are impressive and I expect it to be the premier fire protection show on the east coast due to the amazing support from our volunteer staff. This is a great training opportunity for employees, networking opportunity, and even a good chance to invite customers to learn more about what we do.

Note: Because the joint meeting was held at the end of January, there is little time before our next meeting on Tuesday February 11th. Hope to see you again soon.

- 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.sfpephiladelphia.org

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



*Philadelphia
Delaware Valley*

Spring Seminar & Trade Show

April 16, 2020

Sheraton – Valley Forge

480 North Gulph Road

King of Prussia, PA 19406



The format of the event will allow participants to mingle with vendors before and in between presentations in a Trade Show setting where vendors will showcase their products and have representatives to field any questions you may have. There will be a total of 11 presentations provided throughout the day. Attendees will have the opportunity to choose which topics they are interested in and attend up to 5 sessions during the seminar along with the Key Note presentation.

Our Key Note Speaker this year is, **Stephen Kerber** from UL presenting:

“The Evolution of the Residential Fire Environment”.

PDH credits will be offered. Cost to attend is \$100.00 and includes all sessions, breakfast & lunch.

Scheduled Topics

Fire Protection Engineering Ethics & Professional Practice

Flame & Gas Detection System Technologies & Best Practice

Video Analytics

VacTec –Vacuum Fire Protection Systems

Fire Safety Aspects of Energy Storage Systems

City of Phila Update on Enforcement of Smoke Control Systems

Hypoxic Air Systems

Hot Topics in the Sprinkler Industry

Protection of Mini-Load ASRS Arrangements

Foam Concentrates and the Change to Florine Free



Registration & Breakfast 7am to 8 am

Presentations begin at 8 am

Event will conclude by 5 pm.

Reserve your spot online today, space is limited!

Please use the link below to sign up!

<https://www.eventbrite.com/e/2020-attendee-registration-sfpe-pdv-spring-seminar-tickets-90565573067>

Proceeds benefit our Chapter’s Scholarship Fund



2020 Spring Seminar & Trade Show

Topics / Speaker

Keynote – Stephen Kerber, UL The Evolution of the Residential Fire Environment

The fire problem continues to evolve and offers new challenges. This presentation will share the numerous evolutions that have taken place in homes and how they compound to impact fire safety. Research will be shared that shows this impact and what can be done to intervene.

Hot Topics in the Fire Sprinkler Industry Kevin Hall, NFSA

This presentation will discuss hot topics, new developments, and a highlight of technical questions answered by NFSA over the past year involving the products and installation/design criteria for fire sprinklers and other related systems for water-based fire protection.

Video Analytics Rick Seidel, Fike

Video Analytics (VID) has grown significantly since its first introduction into the fire protection industry in 2008. This presentation begins with an overview of how the VID technology detects smoke, flame, reflected flame, oil mist, and motion, in multiple applications. New technology also allows the video analytics to work with Triple IR Flame Detectors and Thermal Imaging Detection devices.

Fire Protection Engineering Ethics and Professional Practice Art Schwartz

This presentation will focus on fire protection engineering ethics principles and concepts, foundations of the various professional and technical society codes of ethics, including such topics as protection of the public health safety and welfare, professional competency, objectivity, truthfulness, confidentiality, conflicts of interests and emerging issues/challenges affecting the practice of engineering. Examples of ethical dilemmas will be reviewed and discussed.

Flame & Gas Detection System Technologies and Best Practices – Dave Opheim, MSA Safety.

Achieving optimal & cost-effective onsite protection using flame & gas detection systems remains dependent upon understanding the relative strengths & limitations of the available technologies, proper application hazard analysis, and willingness to update standard work practices to leverage new technologies & diagnostic capabilities. This seminar will address these along with a brief summary of pertinent Factory Mutual (FM) Approval Standard performance requirements.

City of Philadelphia Update on Enforcement of Smoke Control System Periodic Testing**Elizabeth Baldwin**

The City of Philadelphia passed legislation relating to the maintenance and testing of dampers and smoke control system in February 2019. The law requires periodic inspection and certification of dampers in high-rise buildings, special assemblies, and hospitals in accordance with NFPA 80 and annual inspection of smoke control systems in accordance with NFPA 105. In this session, we will review:

- 1) Maintenance and testing requirements outlined in NFPA 80 and NFPA 105.
- 2) Inspector qualifications and exceptions established under the law.
- 3) The Department of Licenses and Inspections implementation and enforcement plan.

Fire Safety Aspects of Energy Storage Systems – Bruce Johnson, UL

Energy storage systems (ESS) are showing up in ever increasing numbers, which creates challenges for fire code officials who must address a new generation of fire safety hazards. These systems include lithium-ion stationary battery systems, electrical capacitor systems, other storage technologies, and systems that integrate with photovoltaic panels. This class provides an overview of these systems, associated hazards and mitigation strategies. The class will provide a brief overview covering new model code requirements for ESS in the International Fire Code (IFC) and International Residential Code (IRC), the new NFPA 855 ESS standard and UL 9540 and IL 9540A (ESS full-scale fire test standard).

Hypoxic Air Systems - Florian Buchner, Wagner USA

The presentation will focus on the usage and benefits of Oxygen Reduction Systems in automated cold storage facilities. We will begin with describing the principles of oxygen reduction and then take a deeper look using a case study of WAGNER and NewCold of a facility in Tacoma, WA. This is accomplished by the combination of a low oxygen environment and automated processes, which leads to reduced energy costs, reduced fire risks, reduced dead space within the building, and reduced land use. We will also discuss current standards for low oxygen systems and OSHA standards.

Protection of Mini-Load ASRS Arrangements.- Michelle Blanchet, FM Global's Operations Chief Engineer

Material handling in warehouse facilities is increasingly changing from traditional pallet loads in storage racks to individual parts maintained in automated storage and retrieval systems (ASRS) in an effort to maximize warehouse storage capacity. A “mini-load” ASRS arrangement is a common storage system found in general warehousing where individual parts are maintained in either plastic totes or plastic trays and placed in a storage array having closely spaced rack uprights as well as low tier heights where the tote containers and/or trays are supported on angle irons.

This presentation will address what mini-load ASRS arrangements are, why they are a unique fire challenge, recent full-scale fire testing conducted on them and the subsequent design

guidelines outlined in FM Global Property Loss Prevention Data Sheet 8-34, Automatic Storage and Retrieval Systems, as a result of the full-scale testing.

Foam Concentrates and the Change to Fluorine Free - Jon Walker of National Foam

Foam Concentrates have undergone a major overhaul over the past decade and are continuing to improve by eliminating the harmful chemicals and have developed into more environmentally responsible chemistry. The presentation will include a history of foam concentrates and the legislations that have changed the chemistries to the current fluorine free formulation. I will discuss the changes required for system upgrades and what it will take to upgrade from older chemistries to the fluorine free versions. Most importantly the listings and approvals, the testing of the Fluorine Free, and will the product work.

VACTEC – Vacuum Fire Protection Systems – Mike Nagy, FireFlex

“VACTEC” Integrated Systems, is a **New Vacuum Fire Protection System**, for dry & pre-action applications. It uses **Negative Pressure** in the dry piping network, providing corrosion mitigation, elimination of ice plugs, mitigation of ice plugs, easy to operate and low maintenance.



SFPE Philadelphia- Delaware Valley Chapter 2019-2020 Scholarships

The Scholarship Committee of the *Philadelphia-Delaware Valley Chapter of the Society of Fire Protection Engineers* is pleased to announce its offering of scholarships for the 2019-2020 academic year. We are seeking candidates for consideration to receive awards from the John D. Cook III and Philip L. Gaughan Scholarship Funds, for demonstrated academic achievement. In the past, scholarship awards ranging from \$500.00 to \$1,500.00 have been awarded. More than one scholarship may be awarded, depending on the number and quality of applications received.

The purpose of these scholarships is to promote the science and practice of Fire Protection Engineering and its allied fields. Students need not be enrolled in a fire protection engineering degree program but may be in an allied engineering or science program and demonstrate an interest in fire protection. **The scholarship will be awarded for demonstrated academic achievement and performance in the field of fire protection.**

Candidates must be full-time students, and have attained at least sophomore class standing or have completed at least one semester of study in a two-year program as of the end of the fall semester, 2019 and demonstrate a serious interest in a career in fire protection or its allied fields, and shall be a resident of one of the areas described in the Criteria and Information Sheet attached to the scholarship application.

Applicants should submit a copy of the enclosed application form, a full official transcript (including course load for the current semester), and a letter of introduction that outlines their qualifications for this scholarship and any other information they feel would help committee members in their selection. Proof of **permanent residence** in the scholarship area is an eligibility requirement. Submission of such evidence will be left to the discretion of each applicant; each case will be evaluated during the selection process. If there are any questions regarding a student's eligibility for this scholarship, they are encouraged to submit an application. They may also contact the Scholarship Committee by telephone at the number listed below.

Completed applications must be received by **MARCH 2, 2020**. No applications will be accepted after this date.

Scholarship winners will be contacted by telephone or email and the awards will be presented at the May 2020 meeting of the Philadelphia-Delaware Valley Chapter of the SFPE.

Please copy the enclosed Application Form and the Criteria and Information for Scholarship Consideration for distribution to all students who wish to apply for the John D. Cook III Scholarship or Philip L. Gaughan Scholarship. This form will also be available on our Chapter website at www.spfephiladelphia.org/. The PDF version of the application form contains fields that may be used to fill in applicant general information. Please type or print legibly.

Please contact **Mr. Ryan Schartel, Scholarship Committee Chair** at 215-756-5946 during normal business hours if there are any questions concerning completion of the applications. He may also be reached via email at ryan.schartel@gsa.gov

Free Training Offered by NFSA

NFSA PenJerDel Chapter Training

2020 Free Educational Training Program - Learn from the Professionals!

The PenJerDel Chapter of the NFSA is pleased to announce the training schedule for 2020. Attendees will receive 6.5 CEU's awarded through the Montgomery County Fire Academy. These **free** programs will include a continental breakfast, lunch, and hand-outs. Space is limited, and we expect these classes to fill-up quickly.

Breakfast is at 8:00 am and class begins at 8:30 am.

For more information or to sign up, there are several options available:

Visit our website: <https://njfsab.org/training-penjerdel-chapter/>

Call our office: 866.226.6006

E-mail Frank Ellis: Ellis@nfsa.org

Standpipe Systems for Fire Protection

Thursday, March 19th, 2020

Coordinating NFPA 25 & 72 Inspection, Testing and Maintenance Requirements

Thursday, May 14th, 2020

NFPA 13, 14, and 20 2016 Edition Update

Thursday, December 17th, 2020

Location of Events:

Montgomery County Fire Academy

1175 Conshohocken Road

Conshohocken, PA 19428

NO SHOW POLICY: Attendees are asked to provide at least 72 hours' notice if they are unable to attend a class that they have registered for. Failure to comply with this policy may result in the attendee being placed on the waiting list for future classes.

February 2020

Sun	Mon	Tue	Wed	Thu	Fri	Sat
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2	3	4	5 ASCET South Jersey Chapter Meet- ing	6	7	8
9	10	11 SFPE MEETING	12	13 Engineers Week Kickoff	14	15
16	17	18 ASCET Berks Chapter Meeting	19 ASCET Delaware Chap- ter Meeting	20	21	22
23	24	25 ASCET Philadelphia Chapter Meet- ing	26	27	28	29

UPCOMING PHILADELPHIA-DELAWARE VALLEY SFPE MEETINGS AND EVENTS:				
Date	Meeting Type	Event	Location	Time
2/11/2020	Monthly Meeting	Explosion Venting presented by Explovent	Jacobs Engineering; Conshohocken, PA	5:30 PM
3/10/2020	Monthly Meeting	SFPE National present- ed by Victoria Valentine	Oliver Fire Protec- tion; & Security; King of Prussia, PA	5:30 PM
4/16/2020	Spring Seminar & Tradeshow	Spring Seminar & Tradeshow	Sheraton Valley Forge	All Day



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.

SFPE Philadelphia-Delaware Valley Chapter 2019-2020 Scholarship Application Info

For information, visit our website at:
<https://www.sfpephiladelphia.org/scholarships/>

Applications due by: March 2, 2020