

Flashpoint

Philadelphia-Delaware Valley Chapter
Society of Fire Protection Engineers



February Meeting Information

Date: Tuesday February 11, 2014

Place: Jacobs Engineering Group
Three Tower Bridge Suite 3000
Conshohocken, PA

See Page 6 for directions

5:30 PM: Fellowship Time

6:30 PM: Dinner

Dinner Program:

Our own Jim Davidson will be speaking at this meeting. Jim will be discussing hydraulic shock on sprinkler systems. He will explain

hydraulic shock of sprinkler systems and the technical data required to be inputted into the U of Ky. KY - Surge model program. Two examples of the programs will be provided. The basic surge calculations will be discussed.

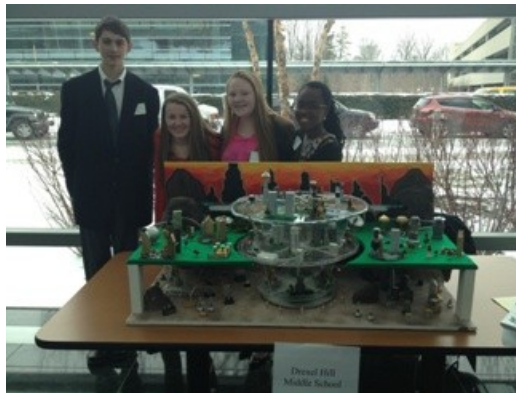
Cost: \$25.00 for dinner & program

Reservations: By 12 noon, Friday, February 7, 2014

Reserve with: Jeff LaSalle by E-mail: jlasalle@lasalleeng.com or Fax: (215) 658-1772 ♦

Future Cities Competition Successful & Fun!

The Future Cities Competition is over and the Lionville Middle School is headed to Washington to represent our area in the national competition. There were twenty six school participating in the event this year, which was held at the SAP America facility in Newtown Square. The winner of the SFPE award was the Drexel Hill Middle School. They also received an honorable mention overall. Our own Lou Annas, Phil Gaughan, John Kampmeyer Frank Spitz and Rob Spitz. were on hand to assist the judging in the special categories.



John Kampmeyer and Rick Coppola were part of the overall judging. The Triad Fire Protection Engineering Attention to Fire Protection Engineering Award went to the St. Elizabeth Parish School. Hopefully we will get an update on the event at our next meeting. For all those that were judges, thanks for donating your time to represent our organization!

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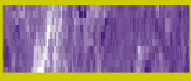
February 2014

Special points of interest:

- There is an update on Engineer week events by the Engineer's Club on page 3
- SFPE is reprinting it's Sprinkler Hydraulics Handbook. Check out page 4 for more information

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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: Jay Stough
 Information for publication can be submitted to: **Jay Stough**
 Email: jays@tilleyfire.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. For an Application of Membership contact: **Jeff LaSalle**
 Email: jlasalle@lasalleeng.com
 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. ❖

Who was the first Major League Player to pitch a ball over 100 MPH?
 See page 5 for answer

President's Spark by Mike Venneri PE

HAPPY NEW YEARS to all. I wanted to say that in person to everyone at the meeting, however, I was unable to attend. I hope everyone can appreciate that no matter what is scheduled and planned, there is always something somewhere waiting to foil those plans. So I had to miss the meeting last month certainly not by choice. This coming month will be interesting for us and a lot of other Societies as we celebrate Engineer of the Year with The Engineers Club of Philadelphia. This event is becoming more widespread and our participation in these events validate our existence as a Professional Society. So you will hear a lot of such meetings and presentations as time goes on this month. We will no doubt end up in some future time presenting an award associated with our Society as part of Engineers Week, but that has not be defined as of yet. Hope to see everyone at the meeting this month.

Mike

Pennsylvania Requires CO Alarms

Pennsylvania now requires carbon monoxide (CO) alarm or detectors in new and existing multifamily dwellings with fossil fuel burning (oil, natural gas, propane, coal, wood, etc) heaters/ appliances, fireplaces, or an attached garage. The CO detection devices must be installed in the vicinity of the bedrooms and near the potential source of CO. Combination smoke/ CO detectors are permitted, but they must provide a different audible signal between a smoke and fire event.

This law is applicable to: 'any house or building, or portion thereof, that is intended or designed to be occupied or leased or occupation, or occupied as a home or residence for three or more households living in separate apartments, AND DOING THEIR cooking on the premises.' Enforcement is at the time of construction or sale of the dwelling. In rental properties, it is the owners responsibility to provide and maintain the CO detection equipment.

Local municipalities are permitted to adopt, by resolution, equal or more stringent requirements relating to carbon monoxide alarms.

The requirements in Act 121 of 2013 will officially **take effect in June 2015**. Known as the Carbon Monoxide Alarm Standards Act, here is the official link:

<http://www.legis.state.pa.us/CFDOCS/Legis/PN/Public/btCheck.cfm?txtType=HTM&sessYr=2013&sessInd=0&billBody=S&billTyp=B&billNbr=0607&pn=1605>

The law can be satisfied with either stand-alone CO alarms or system CO detectors. System detectors offer more advantages:

- More emergency notification options of CO events
- Ability for off-site signaling and optional fire department response
- Full-time status and supervision of the CO detector
- Digitally records events in the history log
- No detector batteries for replacement
- Detector interconnect via logic, not additional wiring

By Jason Lupa

Fire and Nuisance Performance of Beam Detectors Free Webinar by SFPE

In keeping with its industry leading reputation, Xtralis has retained Hughes Associates to perform a series of comparative performance tests on many current commercially-available beam detectors, including its OSID beam detection technology. The testing was aimed at evaluating the relative fire detection and nuisance source rejection response of the OSID technology versus several traditional beam detection devices. The testing which will be described in this webinar focused on fire detection response; nuisance source rejection and optical alignment sensitivity of the various units.

Please join us for an interesting, informative hour presentation where Josh Dinaburg from Hughes associates and Wayne Aho of Xtralis will review the tests and associated results.

There is no charge to attend this webinar. Members of the Society of Fire Protection Engineers will receive 0.1 CEUs for participation in the entire live webinar.

[Register now for this live webinar](#)

Engineer's Club of Philadelphia Update

DELAWARE VALLEY ENGINEERS WEEK EVENTS

Event registration for the Delaware Valley Engineers Week events is now available. More information about each of the events, the award recipients to be recognized, and how to register are available [on our website](#). [Click here to go directly to online reservations](#).

[Awards Luncheon](#), Friday, February 14, 2014, DoubleTree by Hilton, Philadelphia

[Young Engineers Social](#), Tuesday, February 18, 2014, Manayunk Brewery, Philadelphia

[Celebration of Engineering Reception](#), Thursday, February 20, 2014, Villanova University Conference Center, Radnor, PA

Advance reservations end **February 7**; there is an additional cost for reservations after February 7.

D V E W A W A R D R E C I P I E N T S A N N O U N C E D

The award recipients for the professional awards are:

Engineer of the Year: Suzette M. Schultz, Senior Operations Project Manager for Astra-Zeneca Pharmaceuticals, nominated by the American Institute of Chemical Engineers, Delaware Valley Chapter.

Young Engineer of the Year: Philip M. Gonski, PE, Project Manager for Keystone Engineering Group, Inc.

Hall of Fame Inductee: Vukan R. Vuchic, PhD, Professor (emeritus), Transportation Engineering, University of Pennsylvania

Outstanding Service Award (Community): Ruben D. David, PE, Project Director, City of Philadelphia Department of Public Property (Retired)



What's wrong with this picture?

"I cannot even imagine where I would be today were it not for that handful of friends who have given me a heart full of joy. Let's face it, friends make life a lot more fun."

Charles R. Swindoll

Sprinkler Hydraulics and What It's All About

By popular demand – the second edition of *Sprinkler Hydraulics and What It's All About* has been reprinted and is now available for purchase in the SFPE store.

Intended to take the mystery out of hydraulic calculations, Harold Wass writes in a conversational style to help the reader understand how water flows through piping. The book starts with a brief discussion on the mathematics involved and the units of measurements and moves on to some of the advances in sprinkler technology and hydraulic calculations. Sprinkler discharge, K-factors, design areas, friction loss formulae, equivalent lengths of fittings, and all the other elements are included. pp. 250, copyright 2000. Copies are \$58 for SFPE members and \$161 for non-members. To order, visit the SFPE bookstore at <https://netforum.avectra.com/eWeb/Shopping/Shopping.aspx?Site=SFPE&WebCode=Shopping>.

When the
character of a
man is not
clear to you,
look at his
friends.
*Japanese
Proverb*

NFPA Conference & Expo Returns to Las Vegas June 9-12

Featuring over 100 education sessions, countless networking opportunities, and hundreds of product displays from the industry's leading suppliers, the [2014 NFPA Conference & Expo](#) is the largest event of its kind tailored to the fire and life safety community. This year's event, which is being held at the Mandalay Bay Convention Center in Las Vegas, Nev., from June 9 through June 12, 2014, promises to build on the success of previous conferences with featured speakers like American author and historian [Michael Beschloss](#) and an in-depth presentation that discusses the Boston Marathon bombings.

To read more about the 2014 NFPA Conference & Expo and its extensive offerings, check out the press release [here](#)!

[Registration is open!](#) Visit the official [2014 NFPA Conference & Expo site](#) for more info.

Chubb Insurance Loss Control University

Chubb Loss Control Services is committed to minimizing or eliminating losses to help reduce expenses and increase productivity. Proactively managing protection of facilities, employees and profits is paramount to an effective risk management program. The Loss Control University offers training and educational resources that addresses fire protection, worker safety, accident investigation and more.

Training programs in Chubb's state-of-the-art Training Center provide an excellent opportunity to gain experience using the latest apparatus and operational techniques. Facilitated training by our risk engineers, and vendor discount programs bring training and education directly to our customers. [View a video of the facility](#), [see the 2014 schedule](#), [register for courses](#), [get directions](#), [see nearby hotels](#), or choose from one of the information links below.

FEBRUARY 2014

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|-----|-----|------------------------------------|-------------------------------------|-----|-------------------------|-----|
| | | | | | | 1 |
| 2 | 3 | 4 | 5 ASCET SJ chapter Mtg | 6 | 7 | 8 |
| 9 | 10 | 11 SFPE Business | 12 | 13 | 14 Valen- tine's Day | 15 |
| 16 | 17 | 18 ASCET Berks chap- ter mtg | 19 ASCET Delaware chapter mtg | 20 | 21 | 22 |
| 23 | 24 | 25 ASCET Phila chap- ter mtg | 26 | 27 | 28 | |

Inside Story Headline

- Feb 5: NJ ASCET Meeting @ the Collins House in Collingswood, NJ
- Feb 11: SFPE meeting @ Jacobs Engineering. Don't forget to make your reservation by Friday Feb 7th.
- Feb 18: Berks County ASCET Chapter Meeting @ Valentino's in Kutztown 6PM
- Feb 19: Delaware ASCET Chapter Meeting @ Charcoal Pit on Kirkwood Highway in Wilmington
- Feb 25: Phila. ASCET Chapter Meeting @ Michael's Dinner in Bensalem

On September 7, 1974, in a game against the White Sox, California Angels pitcher **Nolan Ryan** became the first player to break the 100 mph barrier when one of his pitches was officially clocked at 100.8 miles per hour.



Phila-Delaware Valley SFPE

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We're on the web!
www.sfpephiladelphia.org

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.

Directions to Jacobs Engineering

From Central Philadelphia:

Follow the Schuylkill Expressway (I-76) west to Exit 29 (Conshohocken). Stay in the center lane. At the traffic light, go straight and cross the Fayette Street Bridge. **At the next traffic light, turn right onto Elm Street. Go two blocks and turn right onto Ash Street. Three Tower Bridge is 1/8 mile on your right at the end of the street.**

From Philadelphia International Airport and points south:

North on I-95 to Exit 7. Follow I-476 North (toward Plymouth Meeting) to Exit 16. Follow signs for Route 23 Conshohocken. At the traffic light at the end of the off-ramp, turn right. Continue down road merging into the center lane. At the traffic light, go straight and cross the Fayette Street Bridge. Continue from bold text above.

From Allentown and points north:

Take the Northeast Extension of the PA Turnpike south to Exit 25A (Mid-County Interchange). Follow signs to I-476 South. Continue to Exit 16 (Valley Forge). On the off-ramp, follow signs to Route 23 Conshohocken. At the traffic light at the end of the

off-ramp, turn right. Continue down road merging into the center lane. At the traffic light, go straight and cross the Fayette Street Bridge. Continue from bold text above.

From New York and Northern New Jersey:

Take the New Jersey Turnpike south to exit 6 (PA Turnpike). Take PA Turnpike west to exit 25A (Mid-County Interchange). Follow signs to I-476 South. Continue to Exit 16 (Valley Forge). On the off-ramp, follow signs to Route 23 Conshohocken. At the traffic light at the end of the off-ramp, turn right. Continue down road merging into the center lane. Continue from bold text above.

From points west:

On the PA Turnpike, Take exit 24 (King of Prussia). Follow signs for I-76 east (toward Philadelphia). Take exit 28B (Plymouth Meeting). Follow signs for Route 23 Conshohocken. Continue from bold text above.

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