



FIRE BUCKET



February 2015

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

SFPECOC.Webs.com

Next Meeting

Date: Wednesday March 11, 2015

Location: The Fawcett Center - 2400
Olentangy River Road, Columbus, Ohio 43210

Speaker: Heejin Park, Flonomix, Inc.

Topic: Computational Fluid Dynamics –
Fire/Smoke Management Systems.

Computational Fluid Dynamics (CFD) analysis is the problem solving process of fluid flow and heat transfer phenomena that are governed by the fundamental laws of physics. As a result of CFD analysis, detailed information for velocity, pressure, temperature, and smoke concentration is acquired in any given point within the space. This technique has widely been applied to various engineering applications including automobile and aircraft design, and recently HVAC/IAQ/Fire Protection industry is starting to utilize CFD techniques rigorously for a performance based approach design, design optimization, and validation of systems. Some of the advantages of CFD are that this technology not only provides exact, reliable, and highly detailed data for design engineers but helps to reduce cost and time since analysis can be done before physical modification/installation. In this seminar, I will mainly introduce this technique and share some of the examples on how to utilize this technique to various Fire/Smoke Management System applications and discuss what preparation is necessary for the CFD analysis.



About Hee-Jin Park
speaker and abstract

Registration: 11:15 – 11:30 am

Lunch: 11:30 am (Fawcett Center Buffet)

Program: 12:15 pm

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

**Reservations Deadline: Friday March 6, 2015
– 4 P.M.**

Contact: Ryan Oyster
royster@simplexgrinnell.com
614-374-5727

Please remember bring the attached parking pass or pick up a free parking pass for your vehicle at the front desk.



03 11 15 SFPE
Parking.pdf

Reservation cancellations will be billed.

Future Meetings

The dates of our upcoming meetings are as follows:

- May 13, 2015
- June 26, 2015 – Phil Gentile Golf Outing – Willow Run Golf Course. Details coming soon.

Burn Center Donation

On February 11, 2015, our chapter presented the check for \$25,000 to the Ohio State Wexner Center Burn Unit. The check was presented during our chapter meeting that was held at MedFlight. MedFlight is owned by Ohio State and Ohio Health. The highlight of the day was the arrival of one of the EC-130 helicopters.



For more information on MedFlight, check out their web site by [clicking here](#).

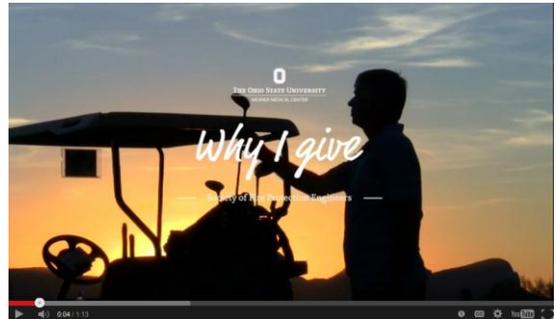
Although we announced our donation to the Burn Unit last fall, the presenting of the actual check occurred during this meeting. Accepting the donation from Ohio State was Dr. Larry Jones and Andrea Bigley.



SFPE Video on Wexner Medical Center Web Site

Last fall, the golf outing committee was asked to create a video that would be used on the Ohio State University – Wexner Medical Center web site. The video was to talk about our golf outing and the support of the Burn Unit. With the help of some Ohio State support staff, the video has been completed. The video can be found on the Wexner Center web site under “Ways to Give” and then under “Donor Stories”. Click below to see the video.

[Making Life Easier for Burn Patients](#)



Thanks to everyone who has made this outing a great success.

2015 Burn Center Golf Outing Moves Up Two Weeks

After 20 years of *mostly* great weather for the Burn Center Outing, the last few years have been pretty cold. The weather in Ohio can be a little questionable in early October. Therefore we have decided to move the outing up by two weeks to **September 21, 2015**. We believe this increase our chances of warmer weather.

The 2015 outing will once again be held at Scioto Reserve Golf Course. Details will be coming soon.

Benefiting

THE OHIO STATE UNIVERSITY
WEXNER MEDICAL CENTER

SFPE Seeks an Engineering Manager



SFPE, the global leader in advancing the science and practice of fire protection and safety engineering, seeks a full-time Engineering Manager to join our eight person staff in our Maryland office. The successful candidate will have strong interpersonal and communication skills and be comfortable interacting with our 4,200 members and friends around the world. Potential growth within this association exists for the right candidate. The position reports to the Senior Manager for Engineering Practice. Note our offices are currently in Bethesda, but will be moving to Gaithersburg, MD in mid-March. For information on the job [click here](#).

Dubai High Rise Fire

Source: Various news accounts

A fire broke out February 21, 2015 in one of the world's tallest residential buildings, sending hundreds of people into the streets of Dubai as flames poured out of the luxury apartments.

No one was reported killed and the fire burned for three hours before being brought under control, according to several reports. However, flames engulfed several floors of the iconic Torch skyscraper and debris tumbled to the ground before sunrise. Images of the building in daylight showed smoke and fog still hanging in the air as workers in masks assessed the damage and cleaned up.

The fire broke out at about 2 a.m. in the 86-story Torch tower on the northeast end of the densely populated waterfront district, which is packed with skyscrapers. High winds whipped through the area, fanning the flames, and debris from the fire cluttered nearby streets.



Although not confirmed, internet sites report that someone was grilling on the balcony of one of the floors and ignited the exterior wall panels. It is believed the wall panels may have been an expanded foam sandwich panel, commonly referred to as EFIS "Exterior Insulation and Finish Systems".

Ironically, the building is known as the "Torch Tower".

You may recall a fire that occurred at Monte Carlo Hotel in Las Vegas back in 2008. That fire also involved EFIS wall panels. It is reported that this fire was started by a welding torch.



Have you ever wondered how the NFPA Standards are developed?

NFPA codes and standards are widely adopted because they are developed using an open, consensus-based process. All NFPA codes and standards are developed and periodically reviewed by approximately 7,000 volunteer committee members with a wide range of

professional expertise. For detailed information [click here](#) to go to the NFPA web site.



National Fire Protection Association
The authority on fire, electrical, and building safety

Home Heating Fires

[Source: NFPA Web Site](#)

In 2011, heating equipment was involved in an estimated 53,600 reported U.S. home structure fires, with associated losses of 400 civilian deaths, 1,520 civilian injuries, and \$893 million in direct property damage. These fires accounted for 14% of all reported home fires.



Facts & figures

Based on 2007-2011 annual averages:

- Space heaters, whether portable or stationary, accounted for one-third (33%) of home heating fires and four out of five (81%) of home heating fire deaths.
- The leading factor contributing to home heating fires (28%) was failure to clean, principally creosote from solid-fueled heating equipment, primarily chimneys.
- Placing things that can burn too close to heating equipment or placing heating equipment too close to things that can burn, such as upholstered furniture, clothing, mattress, or bedding, was the leading factor contributing to ignition in fatal home heating fires and accounted for more than half (53%) of home heating fire deaths.
- Half (50%) of all home heating fires occurred in December, January and February.

Fires Kill 15 Children in Ohio in 2014, 11 So Far This Year

[Source AP](#)

The state fire marshal's office says fires killed 15 children in Ohio last year and have claimed 11 young lives in just the first two months of 2015.

Many factors affect those statistics, but the chief of the state Bureau of Fire Prevention notes that age and the season can be key elements.

Chief Frank Conway says some children may be too young to escape on their own or may instinctively look for their parents instead of crawling to safety. And he says in frigid weather, heat sources can be fire hazards if they're not properly maintained.

Overall, Ohio has had 40 fire deaths this year. The most recent include a 10-year-old girl and 9-year-old boy whose Preble County home in western Ohio was destroyed in a blaze early Saturday.

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.

Job categories include:

- Consulting
- Government
- Insurance
- Research & Testing

- Fire Equipment Manufacturing & Installation
- Education

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!

NFPA Conference and Expo

“We develop the code. We know the code. We teach the code”



NFPA offers a host of training and educational opportunities including our annual [Conference & Expo](#), which will be held in Chicago, June 22-25, 2015, as well as seminars, webinars, online learning, and certifications. Please use the navigation to explore our training and educational offerings or visit our [online events calendar](#) for a full list.

SFPE Conference & Expo



Details will be posted in the [NFPA web site](#) soon.

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

SFPE Central Ohio Chapter **Officers**

Dave Zink – President, Koorsen Fire & Security
Phone: 614-853-5675
E-Mail: david.zink@koorsen.com

Ryan Oyster Vice President, Simplex-Grinnell
Phone: 614-602-2000
E-mail: royster@simplexgrinnell.com

John Falk-Treasurer, Capital Fire Protection
Phone: 614-279-9448
E-Mail: jcf_sr@yahoo.com

Sheryl Stahl-Secretary
E-Mail: sheryl.stahl@vfpfire.us

DIRECTORS

Mark Bowman – Past President, XL GAPS
Phone: 614-751-5049,
E-Mail: mark.bowman@xlgroup.com

Carl Sellke – Board Member, Industrial Sales
Co. Phone: 614-882-1916 E-Mail:
csellke@industrialsalesco.com

Chad Miller - Board Member, S.A. Comunale,
Phone: 614-291-7001
E-mail: Chad.Miller@comunale.com

Jim DiMarzo - Board Member, Industrial Sales
Co. Phone: 614-882-1916,
E-Mail: jdimarzo@industrialsalesco.com

Bruce Larcomb - Board Member Emeritus
Phone: 614-578-1078
E-mail: blarcomb@gmail.com

*The FIRE BUCKET is published as a forum for its members.
Opinions expressed herein do not necessarily reflect those of the
Society of Fire Protection Engineers, Central Ohio Chapter, or
its Editor.*



Society of Fire Protection Engineers Central Ohio Chapter

APPLICATION FOR MEMBERSHIP IN THE CENTRAL OHIO CHAPTER OF SFPE

NEW

RENEWAL

NAME _____

COMPANY _____

ADDRESS _____

PHONE NUMBER _____

E-MAIL ADDRESS _____

NOTE: We will be sending out all Chapter information via e-mail.

ARE YOU A NATIONAL MEMBER IN SFPE? YES NO

Annual dues for the Central Ohio Chapter of SFPE are \$20 and \$10 for Retirees. You can pay a single/one-time fee and receive ALL five of the regular scheduled chapter meetings and your local membership dues all for ONLY \$98.00. This is a savings for the year of \$22.00. You must pay the full \$98.00 with this membership application or renewal to take advantage of this new program. Membership in the Chapter includes the member fee for meetings, and a subscription to *The Fire Bucket*, our Chapter's Newsletter

PLEASE MAIL APPLICATION TO: John C. Falk, Sr.
Central Ohio Chapter SFPE
5700 Cali Glen
Westerville, OHIO 43081
Jcf_sr@yahoo.com

Applications can be submitted at the next meeting. Please make check payable to *Central Ohio Chapter, SFPE* or you now have the option to pay by credit card at the meeting. We use the Square service and it will email you a receipt. 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.

September 2014 – August 2015