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Society of Fire Protection Engineers

New Jersey Chapter

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FUSIBLE LINK

NOVEMBER 2012

President's Message...

Last Friday the NJSFPE took our annual field trip; this year we returned to the FM Global Research Campus by popular demand. We got to see fires, explosions, hurricane-force winds, and flying debris.

These things are all in a day's work at the FM Global Research Campus. The 1,600-acre FM Global Research Campus in West Gloucester, R.I., is the premiere center in the world for property loss-prevention scientific research and product testing. Equipped with the most advanced technology and designed with property owners, product manufacturers and continuously evolving industry trends in mind, their distinguished scientists, and loss-prevention engineers conduct research in four main laboratories.

At the Fire Technology Laboratory we got to view a plastic pallet fire and watch how the materials and fire behaved as well as being provided with the measurements of the rate of heat release. The lab spans 108,000-sq-ft., FM Global's Fire Technology Laboratory is the centerpiece of the Research Campus and the largest facility of its type in the world. The laboratory's sheer size allows researchers to replicate warehouse-size fires of up to 2,000 F (1,093 C). The Fire Technology Laboratory also features several smaller labs for intermediate- and small-scale burn testing.

We also visited the Natural Hazards Laboratory where we watched simulated windstorms, floods and earthquakes; the Natural Hazards Laboratory helps researchers further understand what causes building materials to fail and the best ways to design buildings to resist the effects of Mother Nature. We got to watch a debris cannon shoot simulated windblown wood projectiles at speeds matching those of a real hurricane to determine impact resistance of windows and siding. We also viewed an earthquake shake table which replicates three-dimensional earthquake motions of all intensities, where we saw the difference between a secured shelving system vs one that floats on ball bearings.

We did not get to view the Electrical Hazards Laboratory or the Hydraulics Laboratory. However, we did get to witness one explosion which really got everyone's attention.

After lunch we departed and returned to NJ and were in our cars by 6:00 PM as promised. I personally wish to thank FM Global in general and in particular our hosts Jay Cannon, Christine Santos and Richard Chmura for a very enjoyable and educational day.

Finally I wish to bring you up to date on the *SFPE's 2012 Profile of the Fire Protection Engineer*. It is available to national members at the SFPE web site; we will make it available to NJSFPE members who are not national members at our own web site. In a nutshell Fire Protection Engineering salaries continued to improve over the past two years. The median USA compensation is now \$105,000 in base salary, and \$113,748 in total compensation, reflecting a 2.9% increase in both compensation levels since the previous survey was conducted in 2010.

I hope our members who are also national members provided data for this profile and I hope all of our members find it useful. I expect to see a great turnout for our November 5th meeting where we will have a presentation on *Clean Agent Fire Suppression, Sustainability, and Safety* by Mr. David P. Olds, AIA, LEED AP BD&C of 3M. The presentation will focus on 3M™ Novec™ 1230 Fire Protection Fluid used to keep computer rooms, control centers, document storage vaults and other essential facilities safely up and running.

Yours in service,
Ed Armm, SETPresident NJSFPE

A Word About Our November 5 Technical Meeting - "Clean Agent Fire Suppression, Sustainability and Safety"

David Olds AIA, LEED AP BD+C will be our speaker. He is the US 3M sales representative for Novec 1230 Fire Protection Fluid. David has been a licensed practicing architect since 1994. As past Vice president of a leading Minnesota Design firm, David has concentrated on municipal and county public building projects with an emphasis on special fire hazards. As LEED project manager and signature architect he recently guided to completion the first LEED (version 2009) Gold municipal building in the nation. He brings that experience and perspective to November's meeting discussing fire protection solutions in a highly regulated industry, that is, the protection of critical assets with clean extinguishing agents.

The presentation is titled, "Clean Agent Fire Suppression, Sustainability and Safety". The program covers the NFPA standard 2001 agents used for total flooding fire suppression. These agents are used in the data center, telecommunication, museum, artifact, library and critical asset markets. Use of these clean agents are meant to suppress the fire before fire suppression water systems are needed, thus preventing water from damaging critical assets and business continuity. The continuing education program is one hour. It is also is AIA/CES approved if any architects wish to attend. Learning objectives of the seminar include:

- Understand the history and use of NFPA 2001: Standard on Clean Agent Fire Extinguishing Systems and why it was developed to protect the environment.
- Learn how clean agent fire protection may be used in projects to eliminate ozone depletion potential, lower global warming potential, conserve water in specific regions and work within potential government environmental regulations globally.
- Discover how to use clean agent fire suppression to satisfy USGBC LEED prerequisites and credits.

Gain an understanding of how these environmentally sound clean agents impact safety margins and new developments in HVAC design.

Please join us for November's meeting to learn about these important environmental, safety and fire protection issues.

Seven Workers Burned in Explosion at Ink Manufacturing Plant in New Jersey

October 10, 2012

Seven workers suffered burns when an explosion occurred at an ink manufacturing plant in northern New Jersey. Workers at the U.S. Ink plant in East Rutherford were mixing newspaper ink in a vat when a carbon compound apparently ignited around 1:15 p.m., sparking an explosion and a fire in the building's duct work. Plant workers tried unsuccessfully to extinguish the blaze, which was soon contained by borough firefighters.

At least one injured worker was being treated at a hospital, but most were treated at the scene. None of the injuries are considered life-threatening.

The cause of the explosion remains under investigation.

NJ Chapter Bus Trip to FM Research Campus on October 19, 2012



While at the FM Research Campus the group witnessed a short video on the history of FMG research testing, a free burn plastic pallet fire, a dust explosion, and natural hazard demonstrations of:

- EQ shake table with storage and racks
- Wind uplift test to a single ply roof cover
- 2x4 shot out of an air cannon at wall sheathing to show the force of windblown large debris during a hurricane

JOB OPPORTUNITY

SUMMARY DESCRIPTION OF DUTIES:

RESPONSIBLE FOR PROVIDING CORPORATE FIRE PROTECTION ENGINEERING SERVICES IN BOTH PROGRAMMATIC & TECHNICAL MATTERS.WORKS WITH CORPORATE & LINE MANAGEMENT IN THE DEVELOPMENT &/OR INTERPRETATION OF FIRE PROTECTION POLICY & STANDARDS AS APPLIED TO THE PROTECTION OF LIFE, PROPERTY LOSS PREVENTION, & THE INTERRUPTION OF BUSINESS OPERATIONS.WORKS CLOSELY WITH ARCHITECTS & ENGINEERS BY PROVIDING FIRE PROTECTION ENGINEERING CONSULTATION FOR THE DESIGN OF NEW COMMERCIAL & POWER GENERATING FACILITIES & FOR FIRE PROTECTION IMPROVEMENTS TO EXISTING FACILITIES.CONDUCTS RISK ASSESSMENTS TO EVALUATE THE POTENTIAL FOR LOSS OF LIFE & PROPERTY DAMAGE FROM THE THREAT OF FIRE & OTHER SIMILAR PERILS.RESPONSIBLE AS FIRE PROTECTION EXPERT IN MATTERS SUCH AS LIFE SAFETY, PROPERTY PROTECTION & INDUSTRIAL LOSS PREVENTION.HAS ROUTINE CONTACT WITH SENIOR LEVEL MANAGERS AT BOTH THE CORPORATE OFFICES & AT THE POWER PLANTS.

MINIMUM QUALIFICATIONS:

A B.S. IN FIRE PROTECTION ENGINEERING OR RELATED FIELD OF ENGINEERING FROM AN ACCREDITED UNIVERSITY.
 10+ YEARS OF PROGRESSIVE EXPERIENCE IN FIRE PROTECTION ENGINEERING. MUST BE ELIGIBLE FOR ACCEPTANCE AS A MEMBER GRADE IN THE SOCIETY OF FIRE PROTECTION ENGINEERS.MULTI-TASK ORIENTED, EXCELLENT WRITTEN & ORAL COMMUNICATION SKILLS, & DEMONSTRATE EXCELLENT ANALYTICAL, CREATIVE PROBLEM SOLVING, CUSTOMER FOCUS, & LEADERSHIP SKILLS. PROFESSIONAL ENGINEERING REGISTRATION BY EXAM IN FIRE PROTECTION IN THE STATE OF TENNESSEE IS REQUIRED. COMPREHENSIVE KNOWLEDGE & IN-DEPTH ABILITY TO USE FIRE PROTECTION ENGINEERING THEORY, PRINCIPLES, PRACTICES & STATE-OF-THE-ART TECHNOLOGY. EXPERT WORKING KNOWLEDGE OF BOTH FIRE SUPPRESSION & FIRE DETECTION SYSTEMS & THE NECESSARY MECHANICAL & ELECTRICAL INTERFACES BETWEEN THEM & OTHER BUILDING SYSTEMS.PROFICIENT IN FLUID HYDRAULIC THEORY TO EVALUATE & DESIGN WATER BASED FIRE SUPPRESSION & WATER SUPPLY SYSTEMS.

TVA WIDE Salary Policy

HOW TO APPLY – Complete form TVA 9824.

Send Completed form *along with* your resume or

Posting Date: 07/26/2012

list of qualifications to HR Transaction Processing at:

Closing Date: 08/06/2012

hrtransaction2@tva.gov - (preferred method)

Applications received after closing date are not entitled to consideration, but may be considered at the option of TVA

Signature not required if e-mailed

Or via interoffice mail to HRTP -LP 3A-C

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OPERATION PROPERTY & NATURAL RESOURCES	POSITION FIRE PROTECTION ENGR (CAO) C 1 Position		
DIVISION	SCHEDULE CE	GRADE C	MARKET RANGE \$79,120.00 - \$118,680.00
DEPARTMENT ARCHITECTURE & ENGINEERING	ANNOUNCEMENT NUMBER 31403		

Employment Opportunity

Property Insurer Process Industries Engineering Manager Opportunity

Process Industries Engineering Manager opportunity working for the Global division of a property insurer. The position location is flexible and can be based in NYC, Hartford or Boston. Develop and maintain engineering procedures, guidelines and standards specific to the PI sector but also applicable to a broad base of account types. This position will hire in a field PI team. Excellent salary possibilities and about 30% overnight travel in the U.S. Property insurer experience is a must.

Pat Allen Associates has specialized in safety recruitment for thirty years. We keep a constantly changing nationwide list of safety, loss control, HPR, IH and construction job openings on our web site at <http://www.patallen.com>. We also have an electronic profile at the site which enters directly into our database. Submit a profile and we will be able to keep you in mind. Please click on our link above to view our current opportunities or simply forward this message on to an interested friend.

Dennis Allen (518) 312-3800 <http://www.patallen.com>

Fire Protection Research Foundation Symposium on Fire Safety Design and Sustainable Buildings: Challenges and Opportunities November 7 - 8, 2012

The Fire Protection Research Foundation, in collaboration with Chicago and Illinois Chapters of the American Institute of Architects, the Chicago Highrise Committee, the Society of Fire Protection Engineers and the Council on Tall Buildings and Urban Habitat presents this symposium at the Courtyard Marriott Chicago Downtown, Magnificent Mile. This symposium will feature perspectives from architects, engineers, the sustainability community, and research institutions on the challenges and opportunities of integrating fire safety and sustainable design. The goal of this event is to bring the fire protection and architectural communities together to discuss these topics and share ideas and best practices for sustainable fire safe design. For more information, [visit the conference website](#).



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Investigating Ways to Put Out Fires Using Sound

July 30, 2012

The US Defense Advanced Research Projects Agency (Darpa) is investigating ways to put out fires using sound.

Fires in enclosed spaces such as warships, ground vehicles and cockpits, are a big problem for the military.

Rather than use the age-old theory that water puts out fire, Darpa came to the problem with a fresh perspective - physics. Despite successful laboratory tests, the team admitted they were unsure how it could be applied in the real world.

Darpa launched the Instant Fire Suppression (IFS) program to look at radical new approaches to firefighting back in 2008.

Blasting Sound

Last year, researchers began experimenting. Two approaches were selected - using electromagnetics and acoustics to suppress a flame. One of the technologies explored was a hand-held electrode to suppress small methane gas and liquid fuel fires. In another experiment the team of researchers used speakers to blast sound at specific frequencies that extinguish the flame.

The acoustic field increases the air velocity. As the velocity goes up, the flame boundary layer, where combustion occurs, thins, making it easier to disrupt the flame.

Although researchers succeeded in putting out small flames using both electric and acoustic techniques in the laboratory, it was not clear how to adapt these approaches to real-world applications.



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NJ Chapter Helps Spread the Work About Careers in FPE



Donna Spano (pictured here), from our Chapter's Careers Committee, along with Mario Michaelides, represented NJSFPE at the 2012 New Jersey School Counselors Association Fall Professional Development Conference. The conference was held on October 14 & 15, 2012 in Long Branch, New Jersey. Donna and Marios spoke with Conference attendees who are primarily high school guidance counselors about the FPE career field.

Reminder to Advertisers in the Fusible Link

For those Advertising or wishing to advertise in the Fusible Link for the 2012-13 term using a business card, please forward your \$100 check made out to the "NJ Chapter SFPE" and forward it to the attention of:

Vicki Lynn Serafin
Executive Secretary to Board
P.O. Box 8268
Parsippany, NJ 07054-1196
Phone: 973-541-6771
Fax: 973-541-6906

September 22, 2012
Society of Fire Protection Engineers
SFPE Scholarship
400 Interpace Pkwy. Bldg. C Floor 3
Parsippany, NJ 07054

Dear NJSFPE Scholarship Committee,

I would like to extend a sincere thank you to the New Jersey Society of Fire Protection Engineers for your generous support in granting me a scholarship for a second semester. It is a great honor to receive this scholarship and I am delighted that my hard work is still acceptable to the standards of your committee.

I am currently in my senior year at the University of Maryland. For the Spring 2012 semester, I had the fortunate opportunity to study abroad at the Danish Technical University, where I took four classes including Fire Dynamics. I was also able to incorporate my fire protection engineering background into other classes and offered a unique point of view to my group projects. In my class called Building Renovation and Rebuilding, a civil engineering class that I took as an elective, the focus was on structural stability when conducting renovations. However, I was able to contribute my knowledge of fire protection from a life safety perspective, and became familiar with the Danish Building Fire Code which was overlooked by other groups when submitting recommendations for building renovations. I was able to present the risk of fire when doing renovations, and suggested methods to avoid fires and improve fire safety by including fire protection systems into these renovations. Since Copenhagen is such an old city with countless antique buildings, many of these structures are conspicuously lacking any sort of fire protection systems. It opened my eyes to the necessity of fire protection engineers abroad, and the need for the profession to expand internationally.

Once again, thank you very much for your support. I know the late nights at McKeldin Library are a small price to pay for a rewarding career in fire protection. It is comforting to know that the NJSFPE really cares about future fire protection engineers, and I assure you that your investment in my success is not taken for granted.

Sincerely,
Daniel Baran
Senior, Fire Protection Engineering
A. James Clark School of Engineering

Vicki Serafin
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 Phone: (973) 541-6771
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MEETING NOTICE

Date: November 5, 2012

Place: Hanover Manor
 16 Eagle Rock Avenue
 East Hanover, NJ 07936

Price: \$30.00

Dinner: 5:00-6:00 (Cash bar for mixed drinks)
 Dinner at 6 PM

Topic: Clean Agent Fire Suppression, Sustainability and Safety

Speaker: David P. Olds, AIA, LEED AP BD &C

Please note for this meeting:

All officers, directors and committee chairman are requested to attend a meeting at 4:00 p.m. at the Hanover Manor.

PLEASE COMPLETE AND RETURN WITH YOUR CHECK PAYABLE TO "SFPE NJ CHAPTER" TO:

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OR PAY AT THE DOOR

NAME: _____

COMPANY: _____ TELEPHONE: _____

Meeting Dates/Programs 2012-2013


Nov. 5	Clean Agent Fire Suppression, Sustainability and Safety" – Speaker David P. Olds, AIA, LEED AP BD &C
Dec. 3	NJ Division of Codes and Standards: What's new and on the horizon for New Jersey as well as a review of current codes and standards required by the state
Jan. 7	NFPA 25 and 3rd Party Inspection, Testing and Maintenance—Speaker: Russ Fleming, <i>President National Fire Sprinkler Association</i>
Feb. 4	Designing of Foam systems and the challenges that go along with making these systems work—Speaker: Jim Schwander, <i>Territory Manager Foam Systems - East and Central Regions USA, Tyco Fire Protection Products</i>
March 4	NFPA speaker to review trends in fire loss statistics—Speaker: Marty Ahrens, <i>Fire Analysis and Research Division: National Fire Protection Association</i>
April	Joint NY/NJ Seminar
May 6	Reliable Valve Trailer and NJFSAB Fire Sprinkler Burn Trailer—Speaker: Tom Fields
June 3	Chemical Safety Board speaker on Large Loss Causes and Lessons Learned ANNUAL MEETING—Officer & Director Elections




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Chuck Gandy

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Dave Kurasz

Finance
Rich Reitberger - Chairman
Bob Murray
Glenn Buser

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ADAAG <http://www.access-board.gov/adaag/about/index.htm>

AFAA National <http://www.affaa.org/>

AFAA <http://www.afaa.org/>

ANSI <http://web.ansi.org/>

ASHRAE <http://www.ashrae.org/>

Campus-Firewatch <http://www.campus-firewatch.com/>

Coffee Break Training <http://www.usfa.dhs.gov/nfa/coffee-break/>

CPSC <http://www.cpsc.gov/>

CSAA <http://www.csaaul.org/>

Municipal Codes (E Codes) <http://www.generalcode.com/Webcode2.html>

FDNY <http://nyc.gov/html/fdny/html/home2.shtml>

FM Global <http://www.fmglobal.com/>

FSDANY <http://www.fsdany.org/regs.htm>

FSI <http://www.firesprinklerinitiative.org/>

FSSA <http://www.fssa.net/>

Fire Tech Productions—Nicet Training (FTP) <http://www.firetech.com/>

Home Fire Spklr Coalition <http://www.homefiresprinkler.org/>

HVAC Bld. Control Fire Safety <http://www.iklimnet.com/hotelfires/hotelfiresmain.html>

AFAA-NJ <http://www.afaanj.org/>

International Code Council - <http://www.iccsafe.org/>

International Code Council Residential Sprinkler Exam - http://www.iccsafe.org/news/nr/2009/0709_ResidentialSprinklerExam.pdf

The Joint Commission (JCAHO) - <http://www.jointcommission.org/www.JointCommission.org/>

Material safety data Sheets (MSDS-OSHA Site) - <http://www.osha.gov/SLTC/hazardcommunications/index.html>

National of Fire Equipment Distributors (NAFED) - <http://www.nafed.org/index.cfm>

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Do you want your business to be known by over 125 professionals in the local Fire Protection industry? Advertise in the Fusible Link. \$100 per chapter fiscal year. Contact Vicki Serafin for more info: Vicki.serafin@affiliatedfm.com