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Society of Fire Protection Engineers

New Jersey Chapter

FUSIBLE LINK

OCTOBER 2007

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President's Message



I would like to thank Mike Newman for his excellent presentation at September's meeting. I was unable to attend due to a prior commitment but I did hear some terrific feedback. Also, I appreciate John Cholin for filling in for me as well.

As you all know, the second week in October is fire prevention week (October 7 thru October 13). This year's theme is *Practice Your Escape Plan!* so now is an *excellent time to review your plans at work and at home to make sure they are up to date and everyone is familiar with them.*

The history of Fire Prevention Week has its roots in the Great Chicago Fire, which occurred on October 9, 1871. This tragic conflagration killed more than 250 people, left 100,000 homeless, destroyed more than 17,400 structures and burned more than 2000 acres in 27 hours. The origin of the fire has generated speculation since its occurrence, with fact and fiction becoming blurred over the years. One popular legend is that Mrs. Catherine O'Leary was milking her cow when the animal kicked over a lamp, setting the O'Leary's barn on fire and starting the spectacular blaze.

Finally, over the past few years we have tried to have at least one meeting at an off site location. This year, on October 1, we will be touring Pemall Fire Extinguisher Corporation, located in Cranford, NJ and then having our dinner meeting at Garlic Rose Bistro in Cranford as well. Attached is the flier that was distributed so please reserve your spot as early as possible (but no later than September 27).

I look forward to seeing everyone on October 1!

David Gluckman
NJSFPE Chapter President

NJ SFPE Membership Meeting Minutes September 10, 2007

The meeting was called to order at 6:05 p.m. by John Cholin, First Vice President. After the salute to the flag all in attendance introduced themselves.

The General Minutes from the last meeting of June 11, 2007 were read (refer to the September 2007 edition of the Fusible Link) by Secretary Rich Reitberger. Those in attendance at the meeting were asked if there were any questions or comments. Being none, a motion was made and seconded to accept the minutes. The minutes were then accepted by the membership in attendance.

The treasurer's report was read by Bob Murray, Chapter Treasurer. A motion was made and seconded to accept the report. The motion was passed by the membership.

Ed Armm announced that the chapter will hold its next meeting at Pemall Fire Extinguishing Systems in Cranford, NJ (see attached meeting notice).

Joe Janiga presented a Power Point presentation that he and others have prepared called "Reasons to Belong." This is a 9-page slide show that takes about 15 minutes and describes the advantages of being a member of our NJ Chapter. If anyone is interested in receiving a copy of this Power Point presentation, it will be placed on our website or you can contact Joe Janiga directly.

Tonight's technical session was given by Mike Newman of Johnson & Johnson. Mike presented a detailed analysis of what is believed

to be the largest property loss thus far in the pharmaceutical industry. This particular loss was the result of a fire tube boiler explosion at their Centocor Division plant in The Netherlands. A tube failed causing a large explosion even though the boiler was relatively small. Mike described the actions that J&J took to get the facility back in operation including their contingency plans and how they helped reduce the time needed to get back in production. Mike described the interactions they had with their property adjusters. He also described the issues of dealing with the local authorities as there was a possibility of asbestos contamination. It was a great presentation by Mike. The meeting was adjourned at approximately 8 p.m.

Chapter Field Trip to Pemall Fire Extinguisher Corp., Cranford, NJ

The chapter will be conducting its monthly meeting and technical session at the manufacturing and testing facility of Pemall in Cranford, NJ. A tour of the plant and laboratory will be given as the technical session. Pemall is a manufacturer of gas and chemical suppression systems including the use of FM -200. Because this is a field trip and will not be held at our regular Hanover Manor meeting place, we will need an accurate head count of attendees by Sept 27th for both reservations for the Pemall tour and the restaurant that will follow. Please refer to the enclosed meeting notice.



FRANK SAVINO

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403 Lehigh Ave., Union, NJ 07083
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SLICER & ASSOCIATES
Fire Protection and Loss
Prevention Consulting

J. Sargent "Sarge" Slicer

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West Chatham, MA 02669-1647 Mobile 973-493-0369
VM & Fax 866-395-6172
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A Professional Corporation

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www.atpfire.com

Investigation Into the Application of Duct Smoke Detectors in Heating, Ventilation and Air Conditioning Systems

Prepared for the Fire Detection Institute
By John M. Cholin, P.E., M.E.E., S.F.P.E
J.M.Cholin Consultants, Inc.
Part III

While HVAC ducts are normally operated within a laminar flow velocity regime, the recommendations in the standard do not provide for any adjustment in the location of the detector on the basis of the maximum attainable velocity produced by the HVAC system fans. What are the limitations on the location of duct smoke detector sampling tubes if reliable sampling is to be achieved? Is it necessary to introduce turbulence upstream of the detector sampling tubes to assure adequate sampling? How does velocity vary across the cross-section of the duct as a function of velocity and upstream system components? Does the optimum location or the limits on the acceptable locations for air duct sampling vary with duct velocity?

In many cases there was insufficient space in the HVAC system to permit compliance with the recommendations. In such cases would the duct smoke detectors still fulfill their intended purpose?

Efficacy of Duct Detectors using Sampling Tubes

UL Standard 268A, Smoke Detectors for Duct Application, stipulates the evaluation of detector performance at five air velocities, ranging from 1.5 m/sec. (300 ft./min.) to 20.3 m/sec. (4000 ft./min.). However, variable air volume (VAV) HVAC systems produce velocities that range from zero upward to some unknown value. There is concern that the HVAC system might be operating outside of the range of velocities for which the product is listed for considerable portions of time. There is a need to know what range of velocities are actually encountered in modern VAV-HVAC systems.

Research Plan

Two research contracts were issued by the Fire Detection Institute to investigate the above six issues. A contract was executed with the University of Maryland, Department of Fire Protection Engineering, and a second contract was executed with the National Research Council – CANADA. Different scopes of work were assigned to each researchers based upon the research organization's equipment and other technical assets.

The University of Maryland, Department of Fire Protection Engineering (UMDFPE), was tasked with the literature review, development of hypothetical engineering relationships, and small-scale experimentation. UMDPE used computer models for some of their work and medium-scale laboratory experimentation for other issues. This portion of the research was presented in a research report.

National Research Council – Canada (NRC) explored the research issues by conducting a series of 12 test fires in their full-scale fire test building. Some of the insights developed by the University of Maryland were used in the final design of the NRC full-scale fire test program. During these fire tests, data was collected relevant to the six research issues. The empirical data from these tests and the conclusions drawn were presented in a report.

All of the reports, presentations and data are available on a Project CD from the FDI.

Funding

The funding for this research came from a broad participation of the fire alarm community. The participants included (in alphabetic order):

AFAA of New Jersey

Air Products Corporation
ASHRAE
Siemens Building Systems
Edwards Systems Technology
Fire Control Instruments, Inc.
Fire Detection Institute
Firelite/Notifier, Inc.
Honeywell, Inc.
NEMA
NRC
Simplex Time Recorder Co.
System Sensor, Inc.
Vision Systems, Inc. – VESDA

(Note: Some participants have since been acquired or have changed name.)

While some funding participants contributed far more financial support than others, each contributor was required to name a person to represent the contributor's interests on the Technical Advisory Committee. This TAC reviewed the research plans and progress reports throughout the course of the project.

Reports

Each of the research contractors prepared it's own report. These were written for fire protection engineers and fire scientists and are available along with the supporting raw data on the Project CD. However, the funding participants perceived a need for a less formal, interpretive, summary report that would serve the needs of the fire protection technologist and technician. This report is intended to fulfill that perceived need.

This report will deal with each of the six issues, consolidating the findings of the two research contractors into a single conclusion.

To be continued in the November issue of the Fusible Link

CAREER OPPORTUNITIES...

Fire Protection Engineer Construction Materials Manufacturer

About Us:

Specified Technologies Inc. (STI) is a leading manufacturer of fire protection products for the construction industry. Headquartered in Somerville, NJ, our innovative fire stopping systems and products are used on construction projects worldwide.

Job Description:

Provide technical support via phone, fax, and email to contractors, architects, engi-

neers, consultants, and AHJs for company products. Use CAD software to design non-standard applications for existing products. Participate in ICC Code Development process. Participate in ASTM Standards development process. Perform other technical duties as assigned. This job reports to the Technical Service Manager.

Qualifications:

Require engineering degree from an accredited program, minimum 2 years experience in fire protection engineering. Ability to travel up to 20% overnight on domestic and/or international business. Current working knowledge of ICC Codes and ASTM Standards. Excellent interpersonal

skills along with strong writing and speaking skills.

Prefer valid PE license and knowledge of fire barriers and/or firestopping.

Compensation:

STI offers a competitive salary commensurate with qualifications, excellent benefits including medical and dental, 401K, and tuition reimbursement.

Contact:

Send resume, cover letter, and salary requirements to hr@stifirestop.com. Principals only. EOE.



One Barker Avenue, 3rd Floor
White Plains, NY 10601
Phone (914) 949-0555 Fax (914) 949-0666

Fire Protection ■ Code Consulting ■ Risk Control ■ Security Consulting

Position Description:

Company Description: Schirmer Engineering is internationally recognized as one of the premier fire protection engineering, life safety and security consulting firms in the world. Founded in 1939, we are one of the oldest and most trusted names in fire protection engineering, with offices located throughout the United States.

Location: Schirmer Engineering is currently looking for engineers to fill new positions in our New York Metropolitan area office located in White Plains, NY.

Minimum Education: Interested individuals should have a M.S., B.S., or Associates Degree in Fire Protection, Mechanical, or Electrical Engineering, Architecture, Architectural Engineering, or related fields. Individuals having an AIA certification, an EIT, or P.E. in Fire Protection Engineering or a related field are preferred.

Minimum Work Experience: Schirmer Engineering welcomes inquiries from individuals from all levels of experience,

although individuals having 3 to 7 years of related engineering experience are preferred. Work experience should demonstrate growth and a proportional increase in technical, project management, business development and related responsibilities.

Special Skills: Applicants should be technically oriented, with good analytical and organizational skills. Excellent communication skills (written and oral) required. Individuals should have a broad knowledge of general building construction methods, familiarity with building and life safety codes, and experience in working with contractors, architects, and/or engineers. Knowledge and background with computer fire modeling techniques and performance-based design is a plus. The selected individual must have the ability to work both independently and in a team environment. Persons with the desire for career growth and interested in participating in the development of a rapidly growing, dynamic office are encouraged to apply.

Duties and Responsibilities: Technical responsibilities will include fire protection system design, specification development, construction services, building surveys, building code consulting, computer fire, smoke and egress modeling, plan review, accessibility consulting, and related fire protection, life safety and building code consulting services. The selected individual will also assist in the development of project proposals and participate in business development. Candidates with appropriate experience will participate in, and direct financial and technical management of assigned projects.

Contact Information: For additional information regarding Schirmer Engineering, please see our website at: www.schirmereng.com. Forward confidential resumes and inquiries to:

Michael J. Rzeznik, P.E.
Manager – New York Regional Office
1 Barker Avenue, Third Floor White Plains, NY 10601
(914) 949-0555
Mike_Rzeznik@schirmereng.com

Fire Protection Engineering/Property Risk Control Consultant Position

(Available immediately)

About our Company:

Willis is one of the world's largest insurance brokers in the world, with over 16,000 people in 300 offices in 100 countries. We specialize in insurance broking and risk management services. Established in 1832, we are one of the oldest and most respected firms in the industry.

Willis is a people business. Those who join the **Willis Group** experience all the benefits available from a market leader in a dynamic industry including career diversity, job satisfaction, excellent training and resources.

We believe in motivating our employees to do the best. This requires a stimulating and challenging work environment and the financial rewards they merit. Our ability to perform at an exceptional level relies on recruiting exceptional people. To meet such demanding levels of excellence, we seek individuals who possess the following characteristics:

- innovative thinking
- highest degree of integrity
- knowledge sharing philosophy
- value collaboration and teamwork
- pursue continuous learning and personal development
- enjoy a culture of entrepreneurialism and performance achievement take pride in the organization.

Position description:

We are seeking a dynamic fire protection professional to join our National Property Risk Control Practice. The consultant will manage consulting services for a portfolio

of industrial, retail and health care clients. Key consulting responsibilities will include:

- developing risk control strategies with executives and risk managers
- completing risk assessments and property risk engineering evaluations
- presenting insightful seminars and workshops
- advising clients how to successfully apply loss prevention best practices
- facilitating communication and solutions between clients and insurers
- developing fire protection solutions using NFPA and FM standards
- assisting clients with developing and implementing global, national and local property protection programs
- assisting in new business production efforts
- maintaining and enhancing client relationships.

The consultant will also serve as a technical resource in our national practice and collaborate with other consultants in this practice. Limited overnight travel is required.

We are a growth company that values and rewards innovation, entrepreneurship, and teamwork.

Location:

The consultant can be based in either our NYC office located at 1 World Financial Center, or our NJ office located at 25B Vreeland Rd. in Florham Park, NJ, depending on the candidate's preference.

Qualifications:

We welcome candidates with broker, insurer, or private sector experience. Candidates need to demonstrate a

successful track record of results in their discipline. The following qualifications apply:

- BS Engineering or related field with HPR training/experience
- 3 - 7 years minimum experience in HPR engineering with carrier/broker/industry
- P.E. (Professional Engineering) License in Fire Protection Engineering preferred
- EIT with plans for obtaining a P.E. is OK
- CFPS (Certified Fire Protection Specialist) is a suitable alternative minimum credential in lieu of a P.E., or willingness to obtain.
- Excellent communication skills
- Excellent technical report writing skills
- Computer proficiency
- Any experience with business continuity planning or industrial safety would be a plus.

Compensation:

We offer excellent salary and benefit packages commensurate with experience and qualifications.

Contact information:

For additional confidential information, please contact: **Joe.Stavish@willis.com**, or 973-410-4638

Confidential resumes may be forwarded to:

Joe Stavish, P.E.

N.A. Property Risk Control Practice Leader

Willis of New Jersey

25B Vreeland Road

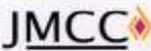
Florham Park, NJ 07932



Meeting Dates/Programs 2007-2008

DATE	TOPIC
October 1, 2007	Field visit to PEM ALL in Cranford, NJ—PEM ALL is a manufacturer of dry chemical and gas suppression systems—Tour of plant, observation of UL testing lab and hopefully witness a gas suppression test.
November 5, 2007	Cold storage Warehouse Protection—Vinny Fichera, NFSA
December 3, 2007	Pressure Reducing Valves in High Rise Buildings
January 7, 2008	WTC No. 7—How it was Rebuilt—Tom Kuhta and Dave Gluckman, Willis
February 4, 2008	International Building Code—Vinny Fichera, NFSA
March 3, 2008	Plastic Panels, an Update—Joe Janiga, FM Global
April 7, 2008	Seminar—Details to Follow
May 5, 2008	Internet Tools & Resources—Speaker to be announced
June 9	The Case for Automatic Sprinklers in Habitational Occupancies—Russ Fleming and Vinny Fichera, NFSA Annual Meeting—Election of Officers

New Jersey Chapter Dues
 Most of you have probably already received the dues notices for this year's current term (Aug to July). Please take a few moments to quickly fill out the renewal form and send in your \$15. The dues for the NJ Chapter have not been increased for many years. If approved by chapter members at the next two meetings (Sept and Oct), the annual dues will increase to \$20 for anyone renewing who has not yet paid by the October meeting or new persons joining. Fortunately we will still have one of the lowest if not the lowest chapter dues of all memberships.



John M. Cholin P.E., S.F.P.E.
J.M.Cholin Consultants, Inc.
 Fire Protection Engineering and Consulting Services
 101 Roosevelt Drive, Oakland NJ 07436 USA
 Telephone: 201-337-8621 Fax: 201-337-5603



Glenn D. Buser, P.E.
 201-891-1405
 201-450-7559 (Cell)
GB Risk Consulting, LLC
 155 Moramarco Court
 Mahwah, NJ 07430
 Email: gbuserr@gbrisk.com

Notice: P.E. Candidates

Do you intend to take the P.E. Exam in fire protection Engineering next year? The benefits of professional licensure are well worth it. If so keep in mind that the NJ Chapter of the SFPE has the capacity to provide a P.E. Exam review program. In past years we achieved a 90% pass rate.

Last year three people contacted the Chapter in June requesting that we provide our review program. The Chapter members who serve as the mentors were unable to develop the preparatory materials on such short notice. It takes a substantial commitment of time to develop the preparatory materials and all of the mentors are bys professionals in their own right. Consequently, the Chapter was unable to provide the program on such short notice for those candidates.

If you plan to take the P.E. exam in Fire Protection Engineering in 2008 and would like to participate in the NJ Chapter of the SFPE P.E. Exam Review Program please let us know no later than January 7, 2008. You should provide notice of your intent to participate in the review program by sending an email to John M. Cholin, P.E. at jmcholin@bellatlantic.net.




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Form# P0072
 Lic # 154162
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 President
 pmc@cityfire.com
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 Cell (973) 478-6132



"Pemall Specific Product & Systems Tour"

WHEN: Monday – October 1, 2007

BOARD MEETING: 3:30 **Survivor Fire & Security Sys.**
39A Myrtle Street
Cranford NJ 07016
(Richard Ravaioli Office – 908-272-8144)

WHERE: **4:30 - 6:30 Pemall**
39A Myrtle Street
Cranford NJ 07016
Telephone 908-276-0211 - Fax 908-276-8074

* * * * *

Immediately following Pemall Tour - we will be going to Garlic Rose Bistro

* * * * *

Dinner & Meeting: 6:30 **Garlic Rose Bistro**
28 North Avenue West
Cranford, NJ 07940

* * * * *

PRICE: \$30.00

RESPONSE DUE DATE: **September 27, 2007**
Email: vicki.serafin@affiliatedfm.com
Phone: 973-541-6771 / Fax: 973-541-6906
Mail: Vicki Lynn Serafin
C/O NJ Chapter SFPE
P.O. Box 8268
Parsippany, NJ 07054-1196

Name: _____

Phone: _____

Driving Directions
Depart 39 Myrtle St, Cranford, NJ 07016 on Myrtle St (South-West)
Turn RIGHT (North-West) onto CR-615 [CR-8]
Turn LEFT (West) onto SR-28 [North Ave E]
Arrive 28 North Ave W, Cranford, NJ 07016



2007-2008 CHAPTER COMMITTEES

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Consulting - Nick Chergotis & Peter Rullo

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Vicki Serafin, Chairperson

Membership

John Cholin, Chairman

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Glenn Dietz, Chairman
Chuck Gandy
Glenn Buser

Scholarship Fund

Chuck Gandy, Chairman
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Joe Janiga, Chairman
John Warnet

Archivist

Rich Reitberger, Chairman
Nicole Davidowitch

Historian

Jim Tolos

Communications

Fusible Link—Brad Hart
Ana Crisostomo—Coordinator
Mailing/Automation/e-mail—Vicki Serafin, Chairperson

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Joe Janiga - Co-Chairman

Career Recruitment

Al Doport, Chairman
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Chuck Gandy

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