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Society of Fire Protection Engineers

New Jersey Chapter

FUSIBLE LINK

OCTOBER 2008

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President's Message



It is with deep sadness to report the recent passing of one of our members – Mickey Yee. Mickey worked for FM Global for 12 years, joining the company in December, 1996. Most recently, Mickey was an Account Engineer in the New York Operations office located in Parsippany, NJ. He also worked for IRI for about 4 or 5 years. Family and friends have indicated that Mickey's memory would be served well by donations to the Disabled American Veterans through the DAV Charitable Service Trust (which qualifies for matching funds as it is a 501c3). Info can be found at the following link: http://www.dav.org/cst/giving_options.html.

I dedicate this edition of the Fusible Link to Mickey in his honor.

My thanks to Rich Reitberger for reaching out to Robert Zuiderveld of Pyroban Corporation who served as our presenter at last months meeting. We had a very informative presentation titled, "Powered Industrial Equipment – Ensuring Safe Use in Potentially Explosion Hazardous Areas."

Our October meeting will be a field trip to the Sikorsky Aircraft Corporation facility in Stratford, CT. If space is still available and you are interested in attending, please let us know.

I look forward to seeing everyone on October 6, 2008.

David Gluckman
NJSFPE Chapter President

<http://www.sfpe.org/Chapters/NewJersey.aspx>

NJ SFPE Membership Meeting Minutes

September 8, 2008

Meeting was held at the Hanover Manor.

- President Dave Gluckman called the meeting to order at 6:00 P.M.
- The salute to the flag was held.
- A moment of silence was held in memory of chapter member Mickey Yee who died in a motorcycle accident.
- The previous meeting minutes of June 9, 2008 were read by Asst. Secretary Brad Hart and accepted.
- The Treasurer's Report was read by Chapter Treasurer Bob Murray and accepted. Chuck Gandy asked a question about the balance. Bob reported that a check needed to be cut for the Scholarship Fund based on the proceeds from the June Golf outing.
- The evening's presentation was given by Robert Zuiderveld from Pyroban. The topic was powered industrial equipment, primarily lift trucks in hazardous areas. Robert handed out copies of his presentation to all in attendance. A summary of his talk follows:
 - Pyroban has provided explosion protection and environmental solutions to industries for over 25 years
 - Pyroban explosion protection services are divided into three divisions:
 - Safe Handling
 - Oil and Gas
 - Solutions & Consulting
 - As an active member, Pyroban has made significant contributions to the development of the following codes and regulations:
 - European—ATEX 94/9/EC
 - European—EN1755
 - Chinese—GB19854:2005
 - American—NFPA 505
 - Pyroban is globally recognized for its know-how and continued investments in technology, people and product developments.

Five Levels of Hazardous Areas Classification		
Description	Rating	Exposure to ignitable environments Hrs. p/yr.
Where ignitable concentrations of flammable materials are likely to exist MOST of the time under normal operating conditions.	Div. 1. Or Zone 0/20	>100 hrs. or >5%
Where ignitable concentrations of flammable materials are likely to exist SOME of the time under normal operating conditions.	Div. 1. Or Zone 1/21	>10 but <100 hrs. or >0.5% but <5%
Where ignitable concentrations of flammable materials might but are not likely to exist under normal operating conditions.	Div. 2. Or Zone 2/22	>1 but <10 hrs. or >0.1% but <0.5%
Where ignitable concentrations of flammable materials might but are very unlikely to exist under normal operating conditions.	Unrated Flammables	<1 hr. or <0.1%
Where ignitable concentrations of flammable materials will NEVER exist under normal operating conditions.	Unrated Non flammables	0 hours or 0% per year

Unique challenges faced when using Powered Industrial Equipment in potentially Explosion Hazardous Areas:

- Equipment mobility (*equipment travels freely between areas with different ratings*)

- Hazardous area classification accuracy
- Excessive and conflicting codes, regulation and guidelines
- The large number ignition sources which can be found on industrial equipment
- Human error (*operator interface, poor judgment or lack of training*)
- Wear, tear and non compliant parts or repairs
- Reliability and availability of after market parts and service support
- High cost of EX protection (*high acquisition and maintenance costs*)
- Limited enforceability of equipment used (*understaffed agencies*)
- Compact equipment design
- Increasing complexity in design & technologies used on industrial equipment
- EPA emission standard (*IC engines run hotter*)

High Costs of Explosion Protection on Industrial Equipment



Robert Zuiderveld of Pyroban speaking on Industrial lift trucks for hazardous atmospheres

- Explosion protection on industrial equipment is very expensive (3 to 5 times the cost of non-rated equipment)
- Low demand for this type of equipment
- There are a limited number of suppliers
- The high costs of testing and certifying equipment

Potential Equipment Ignition Sources

- Arcing and sparking of unprotected electrical component
- Sparks from static build up, friction or impact
- Flames or sparks from the exhaust system
- Flames from the air inlet system
- Hot surfaces (including brakes)
- Engine over-speeding and overload

Robert described in detail specific retrofit procedures when lift trucks are made for hazardous occupancies. The newest technology is to use flammable gas/vapor detectors on regular equipment. When these units detect 25% of the LEL they cause the truck to completely de-energize thus eliminating ignition sources. This is combined with special heat shielding of engine and exhaust components. This type of truck will not energize again unless the detectors sense that the atmosphere is ok or a special override key is used which then runs the detection system through its sequence.

- The meeting was adjourned at 8 pm.

Chubb Fire Protection Seminars

If you are looking for hands-on fire protection training, then these are the classes for you. Classes are conducted in Chubb's Training Center which is located in Warren, NJ (30 minutes from NYC). Facility managers, sprinkler contractors, and compliance officers have found these sessions to be informative, practical and applicable to their jobs. All classes are now CEU approved in NJ, PA, NY and CT. You can get a detailed description of each class at <http://www.chubb.com/lcu> . Attached is a registration form.

• Water Supplies + Sprinkler Systems	9/22/08	1 day
• Dry Pipe and Pre-Action Sprinkler Systems	9/23/08	1 day
• Automatic Fire Pumps	9/24/08	1 day
• NFPA 25—Maintaining Water based Systems	9/25/08	2 day
• Fire Detection + Alarm Systems	11/10/08	1 day
• Warehouse Fire Protection	11/11/08	2 day
• Sprinkler Plan Review	11/13/08	2 day



Loss Prevention School Seminar Registration

Company: _____ Policy # _____
 Street: _____
 City: _____ State: _____ Zip: _____
 Name: _____ Title: _____
 Email: _____ Telephone: _____

For additional participants, attach a sheet with contact information for each person.

Module 1	Water Supplies & Sprinkler Systems	1 day	<input type="checkbox"/>	03/31/2008	or	<input type="checkbox"/>	09/22/2008
Module 2	Dry Pipe, Deluge and Pre-Action Sprinkler Systems	1 day	<input type="checkbox"/>	04/01/2008	or	<input type="checkbox"/>	09/23/2008
Module 3	Automatic Fire Pumps	1 day	<input type="checkbox"/>	04/02/2008	or	<input type="checkbox"/>	09/24/2008
Module 4	Maintaining Water-Based Fire Protection Systems	2 days	<input type="checkbox"/>	04/03/2008	or	<input type="checkbox"/>	09/25/2008
Module 5	Fire Detection & Alarm Systems	1 day	<input type="checkbox"/>	05/12/2008	or	<input type="checkbox"/>	11/10/2008
Module 6	Warehouse Fire Protection	2 days	<input type="checkbox"/>	05/13/2008	or	<input type="checkbox"/>	11/11/2008
Module 7	Sprinkler Plan Review	2 days	<input type="checkbox"/>	05/15/2008	or	<input type="checkbox"/>	11/13/2008

1 day = \$350
 2 days= \$680
 3 days= \$990
 4 days= \$1260
 5 days= \$1450

Number of Days: _____ Cost per Person: _____
 Number of Participants: _____ Total Cost: _____

Chubb policyholders receive a 20% discount

Registration can be reserved by submitting form to:

Email: slee@chubb.com
 or
 Fax: 908.903.7187

Payment by check or purchase order must be received at least 14 days prior to the seminar to remain enrolled. Exceptions can be requested by contacting Sam Lee at slee@chubb.com or 908-903-7172.

To complete enrollment, submit the form and payment to:

Chubb Services Corporation
 15 Mountain View Road
 Mail Stop #E100
 Warren, NJ 07059

Make checks payable to Chubb Services Corporation. Credit card payments are not accepted. Upon receipt, a paid invoice will be returned.

In Memory Mickey Yee, FM Global - New York Operations Parsippany, NJ, USA

26-Sep-08

It is with great sadness that we announce the recent passing of Mickey Yee as a result of a motorcycle accident over the Labor Day weekend.

Mickey worked for FM Global for 12 years, joining the company in December 1996. Most recently, Mickey was an Account Engineer in the New York Operations office

located in Parsippany, NJ, USA.

Mickey's Dad was a Marine; Mickey's high school friends remember him seriously considering joining the Marines and over the years frequently saying he regretted not doing so; his sister's family has been contributing to the DAV for many years themselves.

Mickey is survived by both his parents and a sister. Family and friends have indicated that Mickey's memory would be "served" well by donations to the Disabled American Veterans through the DAV Charitable Service Trust (which qualifies for matching funds as it is a 501c3). Info can be found at the following link: http://www.dav.org/cst/giving_options.html

International Code Council Passes Residential Sprinkler Mandate

On Sunday, September 21st, the International Code Council (ICC) voted to approve a fire sprinkler mandate as part of the 2009 International Residential Code, requiring that sprinklers be included in all one- and two-family homes and townhouses built to the code as of Jan. 1, 2011.

Nine hundred fire officials – all eligible voters – reportedly arrived at the ICC's meeting and hearings in Minneapolis, MN on Saturday in support of the mandate. When the voting took place on Sunday morning, the measure was approved 1,283 to 470.

One concern raised by NAHB was the question as to whether home owners are prepared to perform the maintenance required to ensure that the sprinklers remain operational. Builders also cited the potential for pipes installed in attics to freeze in

colder climates, saying that the sprinklers can be discharged accidentally, resulting in property damage. And in areas served by wells or where water is scarce, there is potential concern regarding the availability of an adequate water supply.

Fire protection organizations report that as many as 890 lives could be saved each year if residences were equipped with working smoke alarms. Furthermore, NAHB identified several existing code requirements that have contributed to a significant decline in fire-related deaths and injuries over the past 30 years. Among these, the most effective improvement noted was the introduction of hard-wired interconnected smoke alarms, which the code requires to be installed in every bedroom and on every floor.

The NJ Department of Community Affairs (DCA) will most likely adopt the code as written.

LOSS CONTROL CONSULTANT

Outstanding, independent, full-service loss control firm is looking for a consultant in central New Jersey. This company specializes in risk analysis and property loss control. The company is growing and a leader in their industry. For more information about this opportunity please contact:

Greg McDowell
WESTPORT ONE
11701 Borman Drive, Suite 250
St. Louis, MO 63146
Tel: (314) 991-4355, ext. 3002
or Toll Free: (877) 709-8784

CSB Releases New Safety Video 'Blast Wave in Danvers' Depicting Massive Explosion that Shook Boston Suburb in 2006, Illustrates Lack of Safety Systems at Destroyed Ink Plant

The following message is from the U.S. Chemical Safety Board, Washington DC.

CSB Releases New Safety Video 'Blast Wave in Danvers' Depicting Massive Explosion that Shook Boston Suburb in 2006, Illustrates Lack of Safety Systems at Destroyed Ink Plant

Comments by Massachusetts State and Local Officials Urge Development of Stronger Fire Codes and Enforcement

Washington, DC, August 25, 2008 - The U.S. Chemical Safety Board (CSB) today released a comprehensive safety video on the massive explosion which shook Danvers, Massachusetts, a suburb of Boston, on November 22, 2006.

The video, entitled 'Blast Wave in Danvers,' is based on an 18-month CSB investigation into the accident at the CAI ink manufacturing facility, completed in May 2008. It is available for viewing and downloading at the Video Room of the CSB's website, www.safetyvideos.gov, as well as on the CSB channel on YouTube (www.youtube.com/uscsb). DVDs can be requested free of charge at www.safetyvideos.gov.

The video features a computer-generated 3-D animation graphically depicting the sequence of events leading to the explosion and the subsequent blast wave that rolled over the Danversport residential area, destroying dozens of homes and businesses and causing extensive damage to many more. The animation shows how the blast blew entire window frames into the bedrooms of sleeping residents, who comment on the experience in the video. Remarkably, only a handful of residents were injured, none seriously.

'The safety video clearly illustrates how the lack of checklists, automatic shutoff systems, process controls, and hazard analyses can lead to a catastrophic chemical accident,' said CSB Chairman John Bresland. 'Together with the Massachusetts state and local officials and residents who appeared in the video, we share the hope that this accident and the resulting investigations will pave the way for improved public safety in the future.'

The CSB found, and the video shows, how a critical steam valve used to control the temperature of a 2,000-gallon batch of flammable solvents inside an ink-making process vessel was likely left open inadvertently by a CAI production supervisor. The solvents boiled and flammable vapor escaped from the unsealed process vessel into the facility, which was not ventilated at night when the building was unoccupied. During the overnight hours, hundreds of pounds of flammable vapor were released into the building, eventually reaching an ignition source at 2:46 a.m. on the morning of November 22.

'We hope this video will encourage other communities, officials, and local emergency planning committees to improve awareness of industrial hazards, review the effectiveness of codes and inspections, and minimize the potential for future disasters involving flammable materials close to residential neighborhoods,' Chairman Bresland said.

The 20-minute video expands on a previous version which was shown at a CSB public meeting on May 13, 2008, in Danvers. The new video includes interviews and commentary from James Tutko, Danvers Fire Chief; Wayne Marquis, Danvers Town Manager; Stephen Coan, the

Massachusetts State Fire Marshal; State Representative Theodore Speliotis; Michael Powers, member of the Danvers Board of Selectmen; Kenneth Willette, Concord Fire Chief and former president of the Fire Chiefs Association of Massachusetts; and numerous Danvers residents including Susan Tropeano, a current member of the Danvers Local Emergency Planning Committee (LEPC), whose house was damaged in the blast.

The video also includes commentary by CSB Board Member William E. Wright and CSB investigators who conducted the 18-month probe, discussing the CSB's findings and recommendations. More information on the CSB investigation of the explosion at CAI Inc. can be found at CSB.gov in the 'Completed Investigations' section.

The CSB is an independent federal agency charged with investigating industrial chemical accidents. The agency's board members are appointed by the president and confirmed by the Senate. CSB investigations look into all aspects of chemical accidents, including physical causes such as equipment failure as well as inadequacies in regulations, industry standards, and safety management systems.

The Board does not issue citations or fines but does make safety recommendations to plants, industry organizations, labor groups, and regulatory agencies such as OSHA and EPA. Visit our website at www.csb.gov.

For more information, contact Hillary Cohen at (202) 261-3601 / (202) 446-8094 cell.



UNITED TECHNOLOGIES CORPORATION Sikorsky Plant Tour

WHEN: Monday – **October 6, 2008**

MEET: 1:30 FM Global
Bus will be in back parking lot
400 Interpace Parkway - Bldg. C
Parsippany, NJ 07470

DINNER & MEETING: 4:00 p.m. – 6:00 p.m. – United Tech. Corp. Firehouse

TOUR: 6:00 p.m. – 8:00 p.m. **Sikorsky Aircraft Corporation**
600 Main Street
Stratford, CT 06615

* * * * *

PRICE: \$30.00 Seat are limited – Below must be filled out!

* * * * *

RESPONSE DUE DATE: September 19, 2008

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

Full Name: _____ U.S. Citizen (Y / N)

Company Name _____ Company Address _____

Is the company incorporated or organized to conduct business in U.S.? (Y / N)

Telephone Number _____ Email Address _____

UNDERSTANDING THE FIRE ALARM REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE® SEMINAR



SPONSORED BY:

THE AUTOMATIC FIRE ALARM ASSOCIATION OF NEW JERSEY

November 20, 2008

At The Hanover Manor, 16 Eagle Rock Avenue

East Hanover, New Jersey 07936

Go to www.AFAANJ.org for directions and a map

This seminar is beneficial for designers of fire alarm systems, project managers or lead installers responsible for fire alarm systems, Sales people and authorities having jurisdiction responsible for fire alarm system plan review and/or acceptance testing. Discussions and practical exercises intended to improve the participant's knowledge of how to use the building/fire codes for determining fire alarm requirements. This seminar is primarily based on the IBC®, 2006 edition.

THIS SEMINAR IS BENEFICIAL FOR INSTALLERS, SERVICE TECHNICIANS, SALES PERSONNEL, SYSTEM DESIGNERS, ENGINEERS, BUILDING & FIRE SUBCODE OFFICIALS INVOLVED IN ACCEPTANCE TESTING AND/OR PLANS REVIEW, OR IS USEFUL AS A REFRESHER FOR ANYONE INVOLVED WITH FIRE ALARMS SYSTEMS.

- Course Materials -

1. Student workbook (provided)
2. International Building Code®, 2006 edition – (Student to provide)
3. Calculator, pencils and note paper - (Student to provide)

- Course Outline -

- 🔊 Introduction
- 🔊 Review of format of International Building Code®, 2006 edition
- 🔊 General fire alarm requirements
- 🔊 Specific fire alarm requirements by occupancy type
- 🔊 Practical exercises and discussion of fire alarm system requirements

WHAT DOES IT COST?

• AFAANJ, NJBFAA members and all government employees -	1-2 attendees	\$225.00 each
	3+ attendees	\$175.00 each
• Non-members	1-2 attendees	\$325.00 each
	3+ attendees	\$275.00 each

All fees are based on registration received prior to November 1 after which all fees add \$25.00

Registration fee includes student workbooks, coffee and lunch on day of the seminar. All those that attend this seminar are invited to stay for the General AFAANJ meeting that begins at 6:00 PM for an additional \$25.00 and earn one more CPD

Ninety-eight to ninety-nine percent of previous attendees have indicated they "would recommend to others" and they "received fair value for the money spent and information received."

Instructor: Ed Armm, SET - Automatic Fire Alarm Association of New Jersey

SEMINAR INFORMATION

WHEN: 8:00 am to 4:00 pm

Thursday - November 20, 2008

WHERE:

The Hanover Manor
16 Eagle Rock Avenue
East Hanover, New Jersey 07936
For directions only (973) 992-7425

Register online at www.afa.org through our secure server and pay by credit card!



Or

Register by mail and pay by check!
Please make all checks payable to:

AFAANJ and mail to:

AFAA of New Jersey
Dennis DeCarlo
C/O Metro Fire & Communications
430 Broad Street
Bloomfield, NJ 07003

All AFAA courses are IACET certified and are accepted for educational credit by NICET and the State of New Jersey

Registration Form For the Understanding Fire Alarm Requirements of the International Building Code Seminar

Please type or print:

Organization _____

Street Address _____

City _____ State _____ Zip _____

Telephone _____ Fax _____

Credit Card No. _____ Exp. Date _____

Cardholder Name (please print) _____

Attendee (s)

Name _____	e-mail address _____
Name _____	e-mail address _____
Name _____	e-mail address _____

AFAA, AFAANJ, NJ & NY SFPE & NJBFAA members and government employees	1-2 attendees from the same company - \$225 each
	3+ attendees from the same company - \$175 each
Non-members -	1-2 attendees from the same company - \$325 each
	3+ attendees from the same company - \$275 each

Don't delay! Registration is limited to 40. **Any registrations received after November 1 will be charged an additional \$25 per person.**

REGISTRATION FEES MUST BE PAID IN FULL PRIOR TO SEMINAR.
NICET information can be downloaded from their web site at www.nicet.org.

Cancellation and refund policy:

A full refund of the seminar registration fee may be obtained provided AFAANJ receives **written** notification at least 7 days prior to the start of the seminar. All other cancellations will be subject to a \$100 cancellation fee. "No-shows" are ineligible for refunds. Special circumstances will be handled on a case by case basis. AFAANJ seminars are subject to cancellation due to low registrations. AFAANJ cannot be responsible for losses resulting from the cancellation of any seminar.
Download additional forms at www.AFAANJ.org



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Glenn Buser

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