



Society of Fire Protection Engineers

New Jersey Chapter

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FUSIBLE LINK

DECEMBER 2009

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President's Message...

Last month our own Ed Armm wowed us with an overview and comparison of the numerous building codes that affects the building designs of our everyday workloads. Thanks to Ed for making the meeting both entertaining and informative. Our next meeting in December will focus on MIC -Microbiologically Influenced Corrosion. Pete Carey of Potter Electric Signal Co. will update us on the latest issues on this important protection system exposure. We also welcomed a number of new members in November. If you know of someone who will benefit from being a member of our Chapter please bring them to the next meeting. They can meet our group, learn from our technical session and network with their peers. We are also working out the details for our April Technical Seminar and expect to have the details to you shortly. Check upcoming issues of the Fusible Link and the Chapter website for more on dates and content. Finally, Happy Thanksgiving to all. See you at the next meeting.

Rich Reitberger
NJSFPE Chapter President

Corrosion and Microbiological Corrosion in Sprinkler Systems

The following is a brief bio on our speaker and topic agenda for the upcoming Dec. 7 meeting. Pete Carey has a great deal of experience with this subject and all that attend will certainly learn a great deal.

Resume

Pete Carey is the Northeast Regional Sales Manager at Potter Electric Signal Company. He has been in his current role at Potter Electric since June 2005. Before his employment at Potter Electric, he was the Eastern ULFM Sales & Marketing Manager at Kennedy Valve Company in Elmira, New York. His tenure in the Sprinkler Industry dates back to December 2000, when he accepted the position at Kennedy Valve. Pete entered the Water and Wastewater industry shortly after graduation from Youngstown State University in December 1995. He worked for Clow Water Systems (Manufacturer of Ductile Iron Water Pipe) and Trumbull Industries (NE Ohio Distributor of Municipal Products, Industrial Supplier of PVF, and Commercial/Residential Plumbing Products). While employed at Trumbull Industries, Pete earned a Masters in Business Administration from Youngstown State University. Potter Electric Signal Company is a 111 year old company that has an established reputation for providing high quality Sprinkler Monitoring Products to the Fire Sprinkler Industry. Five years ago, Potter Electric began providing the Sprinkler Industry with Corrosion Monitoring Equipment, Water Testing, and Remediation Solutions.

Corrosion Presentation Outline

- A. Overview of Corrosion in the Sprinkler System
 1. General Corrosion
 2. MIC
- B. Cost of Corrosion
 1. Sprinkler Industry
 2. All Industries
- C. Current Corrosion Language in NFPA
 1. NFPA 13
 2. NFPA 25
- D. Corrosion Design Considerations
 1. Material Selection
 2. Environmental Considerations
- E. Corrosion Monitoring
 1. Water Testing
 2. Corrosion Monitoring Equipment
- F. Remediation of Existing Systems
 1. Mitigation
 - a. Biocides
 - b. Inhibitors
 - c. Chemical Coatings
 - d. Dynamic Biostatic Coatings
 2. Remediation
 - a. Products
 - b. Services
- G. Conclusion/Questions

Continuing Education Courses in the Philadelphia Area

From time to time some of us may need additional education to improve our organization, sales, or presentation skills.

The Engineers' Club of Philadelphia
215 S. 16th Street, Suite 16
Philadelphia, PA 19102
215-985-5701

Offers various courses at reasonable prices. A list of upcoming courses and how to register are shown below:

Business Courses

B-6: Five Way Formula: The Most Powerful Business Secret You Will Ever Learn (1 Day)

Thursday, November 19, 2009, 11:30 am – 1:00 pm

Instructor: Mr. Frank Mummolo, PhD, PE

Course Description: Want more customers? More revenue? Higher profit? Learn our 5-Ways™ model to dramatically increase your business by understanding the 5 variables that drive great results. We'll show you how to use the power of compounding to turn small improvements into profit improvements of 60% or more. You will be *amazed*!!

Cost: Non- Member: \$149.00, Member: \$119.00 (20% discount)

Click here to [register](#) online

B-7: Stop Selling & Close More Sales (1 Day)

Tuesday, December 1, 2009, 6:00 pm – 8:00 pm

Instructor: Mr. Frank Mummolo, PhD, PE

Course Description: You read it correctly! Because today's top salespeople don't "sell". They are masters of attracting people who want to buy. This workshop is an excellent companion to our "Sales Made Simple" training and covers some unconventional and counter-intuitive techniques used by today's top sales pros. Your competition will never know what hit them!

Cost: Non- Member: \$149.00, Member: \$119.00 (20% discount)

Click here to [register](#) online

B-8: Leverage: The Game That Pulls It All Together (1 Day)

Thursday, December 17, 2009, 6:00 pm – 8:00 pm

Instructor: Mr. Frank Mummolo, PhD, PE

Course Description: That's right – a game. Created to reinforce what we taught you in our workshops. In the game you'll apply all of the strategies and decision making processes you learned in your Business Boot Camp. You'll work the 5-Ways variables and make decisions on how to systematize your business. In the end there is only one winner.

Will it be you?

Cost: Non- Member: \$149.00, Member: \$119.00 (20% discount)

Click here to [register](#) online

B-9: Marketing for Engineers (1 Day)

Tuesday, November 10, 2009, 6:00 pm – 8:00 pm

Instructor: Mr. Frank Mummolo, PhD, PE

Course Description: Marketing isn't "black magic". It's *math*! Is your advertising an expense or an investment? Do some of your ads fail to generate any business? We'll teach you how to "Test & Measure" to know for sure what is working and what isn't. You'll learn the economics of advertising and how to decide whether to invest or not. And ... we'll teach you how to create *ads that work*!

Cost: Non- Member: \$149.00, Member: \$119.00 (20% discount)

Click here to [register](#) online

Fires Caused More Than \$15.5 Billion in Direct Property Loss in 2008

NFPA Journal publishes new fire loss statistics

In 2008, fires caused more than \$15.5 billion in directly property loss. Fires in residential properties caused \$8.6 billion of it. Findings from the newly released report U.S. Fire Loss in the United States in 2008 appear in the latest issue of NFPA Journal®, the official magazine of the National Fire Protection Association (NFPA). Fire departments responded to an estimated 1.5 million fires in 2008. These fires resulted in 3,320 civilian fire fatalities, 16,705 civilian fire injuries and an estimated \$15.5 billion in direct property loss.



Fires

- 1,451,500 fires were attended by public fire departments, a decrease of 6.8 percent from the year before.
- 515,000 fires occurred in structures, a decrease of 2.9 percent.
- 403,000 fires (78 percent) of all structure fires occurred in residential properties.
- 236,000 fires occurred in vehicles, a decrease of 8.5 percent from the year before.
- 700,500 fires occurred in outside properties, a decrease of 8.9 percent.
- A fire department responds to a fire somewhere in the nation every 22 seconds.
- A fire occurs in ...
 - a structure every 61 seconds
 - a residential structure every 78 seconds
 - a vehicle every 134 seconds
 - an outside property every 45 seconds.

Fire deaths and injuries

- 3,320 civilian fire deaths occurred in 2008, an increase of 3.2 percent.
- About 83 percent of all fire deaths occurred in the home.
- 2,755 civilian fire deaths occurred in the home, a decrease of 3.8 percent.
- 16,705 civilian fire injuries occurred in 2008, a decrease of 5.5 percent. This estimate for civilian injuries is on the low side, because many civilian injuries are not reported to the fire service.
- 3,560 of all civilian injuries occurred in residential properties
- There was ...
 - a civilian fire death every 158 minutes
 - a civilian fire injury every 31 minutes.

NJ Chapter SFPE By Law Change

The Chapters Board has proposed a change/amendment (per Section 10.1) to our bylaws that requires a reading of the proposed change at two successive membership meetings with a vote at the second meeting. The first reading to be December 7 and the second reading with a vote on January 4. The By-Laws proposed change/amendment is as follows:

The last sentence of Section 3.4 states of our By Laws states, "Dues and fees are payable immediately upon election for a new Member or a new Chapter Supporter and for all Member/Supporters on or before August 1st of each fiscal year thereafter." **The proposed change/amendment is as follows, ".....all Member/Supporters on or before the first Chapter meeting of each fiscal year thereafter."** This essentially means that the dues are due prior to our first meeting for the season which is held in September.



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Forty Percent of all Home Fire Deaths Resulted From Fires in Homes with no Smoke Alarms

NFPA releases report on Smoke Alarms in U.S. Home Fires

Four of every ten home fire deaths resulted from fires with no smoke alarms in 2003-2006, according to a new report *Smoke Alarms in U.S. Home Fires*, released by the National Fire Protection Association (NFPA).

“Smoke alarms are one of the greatest fire protection devices of our time and have significantly contributed to the decline in home fire fatalities since the late 70’s,” said James M. Shannon, president of NFPA. “But it’s not enough to randomly put up one smoke alarm and forget about it. In addition to placing smoke alarms in recommended areas, they must be kept in good working order, which includes testing them monthly, changing batteries at least once a year, and making sure that they are not disconnected.” Working smoke alarms cut the risk of dying in reported home structure fires in half. The 2007 edition of NFPA 72, National Fire Alarm Code® requires smoke alarms in every bedroom, outside each sleeping area, and on every level. They should also be interconnected so that when one sounds, they all sound.

Other key findings from *Smoke Alarms in U.S. Home Fires*:

- Smoke alarm failures usually result from missing, disconnected, or dead batteries.
- In one-fifth of all homes with smoke alarms, none were working.
- Most homes still have smoke alarms powered by batteries only.
- People 55 or older were more likely to have smoke alarms that were more than 10 years old. (Smoke alarms should be replaced every ten years.)
- More than half of home fire deaths that occurred where no smoke alarms or no working smoke alarms were present happened between 11:00 p.m. and 7:00 a.m.
- The death rate per 1,000 reported fires is 84% lower when hardwired smoke alarms and wet pipe sprinklers are present.

According to NFPA approximately 3,000 people a year die in home fires. “This report reinforces the importance of smoke alarms in saving lives and identifies the way to further reduce that number through the installation of home fire sprinklers,” said Shannon. “It is not acceptable to say 3,000 deaths are okay when we know we can do better.”

NFPA offers the following tips for smoke alarms. Visit www.nfpa.org/smokealarms for more information and to see video with basic smoke alarm safety tips.

- Choose a smoke alarm that bears the label of a recognized testing laboratory.
- Install a smoke alarm in every bedroom, outside each sleeping area, and on every level of your home, including the basement.
- Interconnect all smoke alarms throughout the home. When one sounds, they all sound.
- Replace batteries in all smoke alarms at least once a year. If an alarm “chirps,” warning the battery is low, replace the battery right away.
- Replace all smoke alarms, including alarms that use 10-year batteries and hard-wired alarms, when they are 10 years old or sooner if they do not respond properly when tested.
- Test your smoke alarms at least every month, using the test button or an approved smoke substitute and clean the units, in accordance with the manufacturers’ instructions.
- An ionization smoke alarm is generally more responsive to flaming fires and a photoelectric smoke alarm is generally more responsive to smoldering fires. For the best protection, both types of alarms, or a combination alarm (photoelectric and ionization), should be installed in homes.
- Be sure that all doors and windows that lead outside open easily and that everyone in the home knows the escape plan.
- Consider home fire sprinklers when building a new home or doing a major renovation.

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MEETING NOTICE

Date: December 7 , 2010

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

Price: \$26.00

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

Topic: MIC (Microbiologically Influenced Corrosion) Update—Pete Carey,
Potter Electric Signal Co.

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:

Vicki Serafin
Affiliated FM
400 Interpace Parkway, Bldg C - 3rd Floor
Parsippany, NJ 07054-1196
vicki.serafin@affiliatedfm.com

OR PAY AT THE DOOR

NAME: _____

COMPANY: _____ TELEPHONE: _____

Meeting Dates/Programs 2009-2010

DATE	TOPIC
December 7	MIC (Microbiologically Influenced Corrosion) Update—Pete Carey, Potter Electric Signal Co.
January 4	Fire Pump Update—Ken Isman, Vice President of Engineering for the National Fire Sprinkler Association
February 1	Earthquake - Construction and Mitigation Analysis—EQ CAT
March 1	HVLS (High Volume Low Speed) Fan Update—Peter Wilse, XL GAPS
April 23	Annual Technical Seminar (possibly joint with AFAA)
May 3	Pop up Curbs—Flammable Liquids
June 14	FM Global Standards Update
June 21	Golf Outing—West Point



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2008-2009 CHAPTER COMMITTEES

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Consulting - Peter Rullo
Richard Ravaoli

Arrangements

Vicki Serafin, Chairperson

Membership

John Cholin, Chairman

Nominating

Dave Gluckman, Chairman
Glenn Dietz
Chuck Gandy

Scholarship Fund

Chuck Gandy, Chairman
Ed Armm
Mike Machette
Alternates: Rich Reitberger, Jim Tolos

Auditing

Joe Janiga, Chairman
John Warnet

Archivist

Rich Reitberger, Chairman
Nicole Smith

Historian

Jim Tolos

Communications

Fusible Link—Brad Hart
Ana Crisostomo—Coordinator
Mailing/Automation/e-mail—Vicki Serafin, Chairperson
Website—Joe Janiga
Facebook & Twitter Coordinator—Todd Vazquez

SPECIAL COMMITTEES

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Jim Tolos, Chairman
Joe Janiga - Co-Chairman

Career Recruitment

Al Dopart, Chairman
Glenn Deitz
Dave Gluckman
Glen Buser

Golf Outing

Richard Reitberger, Chairman
Joe Janiga

Awards

Rich Reitberger, Chairman

PE Examination

John Cholin, Chairman
Joe Janiga
Mike Newman
Chuck Gandy

Chapter Seminar/Field Trip

Richard Reitberger, Chairman
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Joe Janiga

Legislative

Rich Reitberger, Chairman
Vinnie Fichera
Jerry Naylis
Dave Kurasz

Finance

Rich Reitberger - Chairman
John Cholin
Bob Murray

HELPFUL LINKS

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

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

AFFSA <http://www.firesprinkler.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.affaanj.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>