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Society of Fire Protection Engineers

New Jersey Chapter

FUSIBLE LINK

FEBRUARY 2007

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President's Message

Hello again!!! It seems that this year is passing by even faster than last year. We are gearing up for the upcoming seminars which will prove to be useful and entertaining. Preparations are underway for a seminar in April with additional information forth coming. The chapter is also set to celebrate the 30th anniversary of the founding of the New Jersey Chapter.

We look forward to seeing many of you at the meetings and the seminar.

We hope the new year is treating our members and their families well.

Best Regards,

Glenn Deitz
NJSFPE Chapter President

SFPE Greater Atlanta Chapter to hold March Fire Safety Conference

— The SFPE Greater Atlanta Chapter will be holding a fire safety conference on March 6th in the Gwinnett Center located in Duluth, Georgia. There will be a multitude of topics to choose from in each of 3 main sessions, a total of 15 in all. The following link will take you to the registration form and schedule of sessions.

http://www.sfpeatlanta.org/downloads/annual_conference_registration_form.pdf

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

NJ SFPE Membership Meeting Minutes January 8, 2007

The meeting was called to order at 6:05 by Glenn Deitz our President; introductions followed the salute to the flag as is our custom.

The General Meeting Minutes for our December membership meeting was approved as published in the *Fusible Link*. The Treasurer's Report for January was read and accepted.

Rick Reitberger took the opportunity to present awards from FM's Duck Open to their recipients. Glenn Dietz then called up Sarge Slicer and presented him with the SFPE "Hats Off Award" for all he has done for the NJ Chapter of SFPE. You may not know that Sarge came to NJ after many years of service to the New England Chapter. Sarge has been a past president of the New Jersey Chapter and he was a past president of the New England Chapter as well. Sarge and his wife have recently retired and will be returning to Cape Cod. Glenn also presented Sarge with a gift certificate but knowing there is no way the NJ chapter can repay Sarge for his tireless service. We wish Sarge a long happy retirement and hope to see him at both SFPE and NFPA National meetings.

Tonight's presentation was a discussion of "What Happens After The Fire" something those of us, not in the insurance industry do not normally think about. The

program was presented as a forum which was moderated by Mr. Kenneth Muir, General Adjuster for FM Global's NY Operations. Ken opened the discussion and then introduced our panel of speakers, Dr. John Whyte of Electronic Renaissance Corporation, 104 Sunfield Avenue, Edison, NJ 08837. Mr. Robert Kleber and Mr. Michael Candella of Crystal Restoration Corporation, 450 Westbury Avenue, Carle Place, NY 11514. The final panel member was Mr. Les Chelminiak of Callan Salvage & Appraisal, Inc., 6 Midland Drive, Great Meadows, NJ 07838.

Ken spoke about the three main goals he has when a client has a loss. The first of which is to respond and assist the client. This may be their first loss or they may have had losses in the past, either way they need help to get back on their feet. At this point Ken may well determine the only way for the client to get all they deserve is through subrogation. Ken's next goal is mitigation of losses for the insured. Not only property is property lost but Ken works to restore the client's ability to conduct business as well. It is common knowledge in the insurance industry that restoral will be far less expensive than replacement, how much less expensive surprised many of us. Often much can be done to repair and return items to service, here in lies the topics of the next speakers, electronic restoration, cleaning of property and lastly

salvage of the damaged goods and materials.

Our speaker concerning restoration was Dr. John Whyte a consultant with the Electronic Renaissance Corporation. Dr. Whyte had a PowerPoint presentation that showed the benefits of using a consulting restoration company like Electronic Renaissance Corporation. He presented numerous examples where restoration will reduce both the cost and time of recovery as well as eliminate disposal issues after a loss. Dr. Whyte passed out circuit boards that were partially restored to show how a useless appearing circuit board can be restored to almost good as new condition. Another advantage to recovery is that no staff reeducation is needed for new systems when the old ones are returned to duty.

Dr. Whyte went on to discuss five key issues and reasons to use an electronic restoration company; he highlighted the issues with the following questions.

- Why get an independent valuation? (Owner may make emotional or ill-informed decision to replace everything. An electronic restoration may not require this.)
- How does an electronic restoration company assure their clients? (Work closely with equipment manufacturers)

- What about warranties? (The electronic restoration company works to get them reinstated)
- Which types of equipment can be restored? (All industrial, commercial, academic, private residence electrical, electronic and electromechanical depending on the level of damage)
- Where has Electronic Renaissance Corporation worked? (All size companies and facilities - equipment losses from \$10,000 to \$300 million plus - private, government, nonprofit - Eastern US (primary) plus Europe, S. America)

Next Dr. Whyte discussed Case Histories (problem, solution, savings) such as damaged R & B recordings that restoration provided a \$2 million savings on. Computer claims after a hacker got into a university IS network which produced a \$700k savings. Another case involved smoke damage to a hospital's human tissue processor which yielded a \$240k savings. Finally, a case involving a telephone central office was discussed where the savings amounted to \$400 million over replacement. The bottom line is restoral vs. replacement can save from 70 to 80% over the cost of new equipment.

Dr. Whyte explained that his company has a reputation for being knowledgeable, for having the required experience to have developed relationships with

many manufacturers with a proven track record of performance, honesty and trust. After showing a list of some of Electronic Renaissance Corporation's clients, he opened the discussion up for questions.

Once the Q & A was over our next speakers came up to discuss the clean up. Mr. Robert Kleber and Mr. Michael Candella of Crystal Restoration Corporation, worked as a team with one operating the slide show and the other discussing a typical project.

The gentlemen showed numerous slides of a County Office Complex damaged by arson, their crews cleaned, deodorized and restored ceilings and floor coverings as needed to get the offices up and running in record time. The level of detail that Crystal Restoration takes their craft to allows for a quick restoration of business. We learned that often the ceilings and flooring must be replaced; however, many of the office supplies and equipment can be cleaned and returned to use. We all know that the effects of water have to be mitigated quickly to prevent mold and mildew; however, most of us did not realize how much effort is expended simply to scrub the air after a fire. In the clean up after a fire, Crystal Restoration is prepared to put as many people on the project as required to return the client to full operation.

Finally, we learned that not everything can be restored or cleaned; when this becomes the case, the last one called in is the

salvage company. The Salvage Industry was represented by Mr. Les Chelminiak of Callan Salvage & Appraisal, Inc. Mr. Chelminiak provided a very humorous and graphic look into the world of salvage. He explained that when he is called his first order of business is to do an inventory of the loss, he performs this in one of three ways. The first method is descriptive where he will visually inspect each damaged item, to list its name, the quantity and value. The second type of inventory is by cost of items only, the third and final type of inventory is by physical verification of the client's formal recorded inventory.

Mr. Chelminiak showed us numerous examples of what is considered good salvage or materials that still had a reasonable value as well as items that appeared to be in good shape but had no value. The goal of the salvage company is to return a good percentage of the original value of the loss. Sometimes this will be through scrap; other times the materials can be resold at auction or as bulk salvaged goods. Salvage goods can be sold here in America and other times depending on the materials they must be taken off shore to sell. A good salvage operation can often reclaim up to 50% of the original value of the loss.

After a Q & A period, the meeting was adjourned at approximately 8:15.

Travel Channel to Highlight Gamewell-FCI, Honeywell



After two years of pursuit, producers of the Travel Channel's *Made In America* (MIA) show finally took notice of the essential life safety products manufactured by Gamewell-FCI and the Honeywell Fire Systems (HFS) family. On July 3, 2006, the whole MIA crew, along with show host John Ratzenburger (Cliff the Postman from Cheers), pulled into the Northford, Connecticut headquarters parking lot for a grueling day of taping.

Starting with an overview of the Gamewell Master Box history given by President Allen Fritts, taping continued with coverage of the factory's full assembly line, Gamewell-FCI engineering lab and a simulated Master Box assembly area. The day wrapped up at a local fire department in Meriden, Connecticut where Ratzenburger enjoyed sounding the alarm via a nearby Master Box. Thanks to the support of retired Fire Marshal Bob Morpurgo, Chief James Trainor, Deputy Chief David Bowen and the Broad Street Station Firefighters, MIA was able to capture some exciting footage of emergency response.

The segment aired **Tuesday January 23rd** at 9:00pm on the Travel Channel.



Left to Right: Northford Plant Operations Manager, Dominic Mastrone, John Ratzenburger and President, Allen Fritts pause between

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Career Opportunities

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.

Position Location: Schirmer Engineering is currently looking for engineers to fill new positions in our New York Metropolitan area office located in White Plains, NY, with additional positions also available throughout the United States.

Minimum Education: B.S. or Associates Degree in Fire Protection, Mechanical, or Electrical Engineering, Architecture, or Architectural Engineering. Individuals having a degree and/or P.E. in Fire Protection Engineering or 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 for the position in the New York Regional Office. Work experience should demonstrate growth and a proportional increase in technical, project management, 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 period 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. Confidential resumes and inquiries should be forwarded to:

Michael J. Rzeznik, P.E.
 Manager - New York Regional Office
 1 Barker Avenue, Third Floor
 White Plains, NY 10601
 (9 14) 949-0555
 Mike Rzeznik - schirmereng.com

Schering Plough is looking for someone with about 10 years experience with a good rounded loss prevention background and having worked on construction projects. Experience in the pharmaceutical industry and/or chemical industry a plus, but not essential. Working in Kenilworth, NJ with the ability to travel to SP sites through out the world. Will work on providing property loss prevention advice and criteria to SP sites and projects. Risk Assessment surveys of locations and dealing with insurance company recommendations. Will interact with all levels of management and divisions in SP and outside. Involvement in the insurance placements.

Send/fax/email resume to:

Glenn Deitz, Manager, Property Loss Prevention and Control
 2000 Galloping Hill Road, K-6-2, D440
 Kenilworth, NJ 07033
 email - glenn.deitz@spcorp.com Phone - 908-298-2199 Fax - 908-298-07033

The City of North Las Vegas, Nevada, is currently accepting applications for the position of Fire Protection Engineer in the Fire Department. The current opening closes at 5pm on 12/21/06. For detailed information regarding this position and the application process, please visit our website at www.cityofnorthlasvegas.com and click on the "Employment" link.

While this ad came in to late for the Dec Issue of The Fusible Link, there is a chance that it will remain open beyond the stated deadline.

The request came from:

James Frater, PE, CFM
 Fire Marshal
 North Las Vegas Fire Department
 2626 E. Carey
 North Las Vegas, NV 89030
 (702) 633-1107
 (702) 399-8730 Fax

Meeting Dates/Programs 2006-2007

DATE	TOPIC
February 5, 2007	NIST Station Night Club Fire Analysis - Dan Madrowski, NIST, Chuck Gandy, FM Global
March 5, 2007	Commodity Classification Changes - Joe Janiga, FM Global
April Meeting/Seminar Day	Homeland Security/Disaster Protection of gas and chemical plants
May 7, 2007	Insurance Industry Update - Steve Fomchenko, Property Manager, XL Insurance, Mike Newman, Johnson & Johnson; Brad Hart, Lockton
June 11, 2007	J&J Explosion - Mike Newman, Johnson & Johnson
June 25, 2007	Golf Outing - West Point

Assessment of Time to Loss of Tenability Due to Smoke, Irritants, Asphyxiants and Heat in Full-Scale Building Fires - Effects of Suppression and Detection on Survivability - Part I

This article was taken from the "Fire Suppression and Detection Research Application Symposium" February 22-26, 1999

David A. Purser BRE Ltd. Fire Research Station, Garston, Watford WD2 7JR UK

ABSTRACT

Fires in multi-compartment buildings often occur in enclosed spaces or in enclosures opening into other rooms or corridors. Where such fires occur in relatively small enclosures, with limited external venting, then the growth of the fire itself remains restricted. If large vents are present opening into large enclosed spaces or to the outside, then flashover may occur. In either case these fires are likely to become oxygen vitiating, producing large amounts of smoke and toxic products. The main hazard to building occupants is therefore the rapid contamination of building spaces by toxic smoke. Visual obscuration and irritancy of smoke impedes escape efficiency, affecting escape behavior and slowing travel speeds. This may be followed by incapacitation, primarily due to exposure to asphyxiant gases (mainly CO and HCN), and death. A series of full scale fire tests conducted in enclosed test rigs and buildings is reported, in which detailed measurements of smoke, heat, toxic gases and time to detection were made, enabling assessment of time to incapacitation using Fractional Effective Dose (FED) methodology. Also described are hazard analyses for fires in which active suppression was used. These include fires in two story maisonettes with and without domestic sprinklers and sprinklered and unsprinklered fires in a very large-scale test rig with smoke extraction. Also reported are the effects on aircraft cabin tenability of low water volume spray mist systems during external fuel fires, and the effects of Halon 1301 and inert gas systems on tenability during vehicle fires in enclosed spaces.

INTRODUCTION

This contrasts with well-ventilated fires, showing rapid fire growth and generating large amounts of heat, but with less smoke and toxic products. The main hazard to building occupants is therefore the rapid contamination of building spaces by toxic smoke. Visual obscuration and irritancy of smoke impedes escape efficiency, affecting escape behavior and slowing travel speeds. This may be followed by incapacitation, primarily due to exposure to asphyxiant gases (mainly CO and HCN), and death.

To be continued in the March issue of the Fusible Link

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JMCC

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RJA

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ASME Seminar - February 23, 2007

February 18 – 24th is National Engineers Week and the American Society of Mechanical Engineers North Jersey Section will be holding a seminar at the Hanover Manor on Friday , February 23rd. The Key Note speaker will be our own Glenn Buser, P.E., who will give his presentation entitled "Confronting Today's Growing Catastrophic Risks: Key Strategies for Engineering Success"



National Engineers Week February 18-2, 2007

The American Society Mechanical Engineers North Jersey Section is proud to sponsor

Engineers Week Dinner Celebration

Friday, February 23, 2007

Dinner at the Hanover Manor
16 Eagle Rock Avenue, East Hanover NJ.
973-992-7425

6:00pm Hors d'oeuvres - Cash Bar 7:00pm Buffet Dinner

Keynote Address:
"Confronting Today's Growing Catastrophic Risks:
Key Strategies for Engineering Success" by Glenn D. Buser, P.E.

Also: ASME Student Section Presentations

\$47.00 per person. Tables of ten are available for \$425.00. Students are invited to attend at a cost of \$30.00 each.

All ASME members, guests, members of other engineering and technical societies are welcome to attend.

Make checks payable to "ASME North Jersey Section".

Send checks to Sid Goodman, 158 Grandview Lane, Mahwah NJ 07430.

For additional information, please contact Sid Goodman at (201) 327-5158, goodmans1@asme.org,

In case of inclement weather the dinner will be rescheduled.

Registration must be received on or before February 14, 2007

-----Mail this form with your payment-----

Name	Company/Society	Phone (H/W)	email Address

Vicki Serafin
Affiliated FM
400 Interpace Parkway, Bldg C
3rd Floor
Parsippany, NJ 07054-1196
Phone: (973) 541-6771
Fax: (973) 541-6909

MEETING NOTICE

Date: February 5, 2007

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

Price: In Advance - \$22 At door - \$25

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

Speaker(s): Dan Madrowski, NIST

Topic: NIST - Station Night Club Fire Analysis

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

NAME: _____

COMPANY: _____ TELEPHONE: _____

ALL RESERVATIONS SHOULD BE RECEIVED BY FRIDAY, FEBRUARY 3, 2007. TELEPHONE RESERVATIONS OR CANCELLATIONS SHOULD BE RECEIVED BY NOON OF THE MEETING DAY.



2006-2007 CHAPTER COMMITTEES

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