



Society of Fire Protection Engineers

New Jersey Chapter

Interim Editor Fusible
Link: Brad Hart & Ana
Crisostomo
Tel. (212) 837-0827
Fax (212) 344-3060

FUSIBLE LINK

www.njsfpe.com

April 2002

President – Chuck Gandy – 973-398-1445
First V.P. – Sarge Slicer – 973-541-6718
Second V.P. - Rich Reitberger – 973-541-6776
Past President – Joe Janiga – 973-541-6774
Director - Pat Egan - 973-402-2200
Director - Frank Savino - 908-688-0300

Treasurer– Glenn Deitz – 973-822-7396
Asst. Treasurer – John Cholin – 201-337-8621
Secretary – Dave Gluckman – (973) 410-4635
Asst. Secretary – Brad Hart – 212-837-0827
Director - Bob Murray - 732-205-9440
Director - Edgar Novoa - 732-868-2357

NJ-SFPE Membership Meeting Minutes 2/4/02

1. John Durante, President of the SFPE New York Chapter, was present for our meeting and reported that the SFPE World Trade Center Fund collected \$37,000. \$6,085 was distributed to each family of the Widows and Children Fund and \$5,251.50 was given to families of the SFPE members who lost their lives. John thanked the NJ members for our generous donations.
2. A motion was made and carried to accept the secretary and treasurer's reports.
3. Rich Reitberger talked about our April anniversary meeting. The agenda includes:
 - Chapter Anniversary presentation and history
 - Fire Protection Legislative / Excellent in Government awards
 - 25th Anniversary Limited Edition Portfolios for attendees.
 - (Note: Limited quantity. Portfolios will be presented to the first 45 people who respond and attend).

- 25th Anniversary lapel pins and special Anniversary ink pens for all attendees.
- Choice of prime rib or salmon dinner.

Special anniversary memorabilia also will be available.

4. Fusible Link articles are always welcomed and should be sent to Brad Hart.
5. A motion was made and carried to accept three new members into the Chapter; Joe Razza, Chris Vitale and Donna Spano.
6. John Cholin reported that 4 of the 5 people (80%) taking the NJ SFPE exam review course passed the last exam. The national average was 44%. A letter was read from John Warnet who thanked the people teaching the exam course for all their help. Another course will resume the first Monday in July after the 4th of July and run until the first Monday in October. It will take place at NJIT.
7. Joe Janiga reported that the nominating process for next year's Board of Directors has begun. Any volunteers to serve on the board are welcome.

8. Our annual seminar will take place in June or September and will be about the World Trade Center attack.



Technical Presentation From March 4 Meeting

Topic: *HID Lighting Systems*
Speaker: *Mike Newman and Jim Tolos*

Mike Newman and Jim Tolos gave us a presentation titled, "HID Lighting Systems." Lighting systems utilizing high intensity discharge (HID) lamps have existed for several years and are widely used in industrial occupancies. Although commonly recognized as a safe means of providing high quality lighting, HID lighting is suspected of being the source of ignition for several major fires.

This informative session discussed the different types of lighting systems, which include incandescent and electric discharge. There are three main types of high intensity discharge lights; mercury vapor, high pressure sodium and metal halide.

Dangers associated with metal halide lights include an internal quartz arc tube, an outer glass bulb, high operating pressure (50 psi) and high temperature (2000 degrees F)! Internal and external causes of bulb failure include moisture, improper installation, and the use of the bulbs in these lights pass their rated life.

Recommended loss control practices include the use of barriers and listed fixtures (e.g., UL Listed), using these lights in accordance with manufacturers specifications, and relamping before the end of the bulbs useful life.

Also, Some manufacturers suggest that by turning metal halide lights off at least once per week for at least 15 minutes, units approaching the end of their useful life will fail to restart properly. They imply this action will prevent violent lamp failures. Similarly, NFPA 70B titled *Recommended Practice for Electrical Equipment Maintenance*, will include a new requirement for these lamps stating that continuously operated systems should have their lamps turned off once per week for at least 15 minutes.

Jim Tolos presented a case study of an actual loss attributed to HID lights. A warehouse in Memphis, TN containing Level 2 aerosols had a fire where three sprinkler heads controlled the fire and kept the damage to about \$150,000. The sprinkler system was designed to provide .97 gpm/1,500 square feet. It appears that maintenance personnel replaced the bulbs in the HID lights but did not re-install the protective barriers.

GOLF OUTING

The **New York Metro SFPE Chapter** golf outing will be held on June 10, 2002 at the Beaver Brook Country Club in Clinton, NJ.

Outing Highlights Include:

- Limited Openings This Year - Sign Up Early
- Guests Welcomed!!!
- Chance For \$10,000 Cash *Hole-In-One* Prize + 3 More Bonus Holes
- 7:30 - 8:15 A.M. Continental Breakfast & Registration With An 8:30 A.M. Start
- Greens Fees & Cart - Included
- Cash Cart & Bar
- 1:30 Pm Deluxe Hot And Cold Buffet & Draft Beer Served With Meal
- Tournament & Door Prizes (Prize Sponsors And Donations Are Welcomed)
- Free Photograph Of Each Foursome

All this for \$140 per person if received by May 17th.

\$145 if payment is received after May 17th

To sign up and further details, please visit the SFPE web site at www.sfpenny.org.

SURVIVOR
FIRE & SECURITY SYSTEMS
 SERVICE • DESIGN • INSTALLATION
RICHARD RAVAIOLI - SALES MANAGER
 39A Myrtle Street • Cranford, NJ 07016-3456
 Tel. (908) 272-0066 • Fax (908) 272-8144

Career Opportunities

More detailed information is contained in previous *Fusible Link* issues and on www.njsfpe.com

=====

B & F Technical Code Services, Inc., Hoffman Estates, Illinois, is searching for a highly qualified and experienced Plan Examiner and Inspector. Send resume and cover letter to Attention: KJGarrett, B & F Technical Code Services, Inc., Post Office Box 957648, Hoffman Estates, Illinois 60195; fax: (847) 490-1476; e-mail: Ken@bftcchcs.com.

=====

The **Schirmer Engineering Corporation, Deerfield, Illinois**, has an immediate need for Code Consultants and entry to senior level Fire Protection Engineers and designers. Opportunities are available in the Boston, Chicago, Dallas, Denver, Las Vegas, Los Angeles, Miami, Phoenix, San Diego, San Francisco and Washington, D.C. areas. The company offers a competitive salary and benefit package. Send resume to G. Johnson, Schirmer Engineering Corporation, 707 Lake Cook Road, Deerfield, Illinois 60015-4997; fax: (847) 272-2365; e-mail: gjohnson@schirmereng.com.

EDWARD B. ARMM
 SENIOR CONSULTANT

ROLF JENSEN & ASSOCIATES, INC.
 FIRE & SECURITY ENGINEERING CONSULTANTS

130 WEST 30TH STREET
 13TH FLOOR
 NEW YORK, NY 10001-4082 USA

+1 212 695-6670
 FAX +1 212 685-6671
earmm@rjagroup.com

A SUBSIDIARY OF THE RJA GROUP, INC.

SENIOR PROPERTY RISK CONTROL SPECIALIST

Major Fortune 500 Insurance Broker Located in the NY Metropolitan area has a position available for a Senior Property Risk Control Specialist to provide consultative services to internal and external clients. The successful candidate will have had 3 to 7 years experience with the testing and or design of various fire suppression systems as well as extensive knowledge of local building and fire codes. Prior experience with an insurance carrier or broker is essential. Some local travel required. Degree in a related field is preferred. Salary negotiable. Contact John Callahan at 888-762-7327 ext. 209 and or e-mail resume to Jcallahan@RMAinc.com

GEORGE KOUTSOUBIS PE
 SENIOR ENGINEER

ALPHA-OMEGA ENGINEERING PA
 235 Water Street • Perth Amboy NJ 08861
 Tel 732.826.6162 • Fax 732.324.0057
 For More Info: www.AOServices.Net

FM GLOBAL JOB OPENINGS

FM Global's Parsippany, NJ office has several job openings for engineers and underwriters in their HPR and Commercial Properties divisions. If you are interested in applying for any of the following you can e-mail your resume to joseph.janiga@fmglobal.com or call

WILLIAM F. WAYMAN
 Regional Director

200 Valley Road, Suite 306
 Mt. Arlington, NJ 07856
 E-mail: bwayman@tvalfiresafety.com

Tel (973) 398-1445
 Fax (973) 398-1442

Joe at 973-402-2200x6774.

****LOSS CONTROL CONSULTANT NEEDED****

Starr Technical Risks Agency, Inc., is seeking a Loss Control Consultant with experience in "energy" and related classes of business.

More detailed information is contained in previous issues of the *Fusible Link* and on line at www.NJSFPE.com

Qualified candidates can contact Rhonda Clarke at 212-770-5099.

**PA Chapter Co-Sponsoring Seminar
April 16**

**Fire Protection 2002
Tuesday April 16, 2002
Montgomery County Fire Academy
1175 Conshohocken Road
Conshohocken, Pa. 19428 (610) 278-3500**

8:00 - 8:30	Registration / Coffee & Doughnuts
8:30 - 9:30	Welcome and Introductions
	Keynote Speaker: Kenneth Lauziere P.E. , Fire Marshal, Office of the Architect of the Capitol, whose featured topic is "Painful Lessons learned from the Pentagon Tragedy"
9:30 - 10:15	Russ Fleming P. E. of National Fire Sprinkler Association
	The 10 most Important Changes coming in the new editions of NFPA 13, 13R, 13D & 25
10:15 - 10:30	Break
10:30 - 11:15	Ed Mann -- Commonwealth of Pennsylvania Fire Commissioner
	The Commonwealth of Pennsylvania Building Code
11:15 - 11:55	Update Panel Discussion: Sprinkler Fitter Licensing in Philadelphia - David Perri, P.E. Deputy

Commissioner Philadelphia L&I
New Fire Alarm Inspection Requirements in
Philadelphia-Dennis Gouddy AFAA
The Fire Protection P. E. examination -
Jim Davidson SFPE
NFPA 5000 Building Code - Russ Fleming
NFSA
Pentagon Tragedy Questions - Kenneth
Lauziere, P.E.

11:55- 12:30	Breakouts
	a. James McGinty , retired Philadelphia Bomb Squad - Securing Your Facility
	b. Penn Star Medivac Crew and Montgomery County Fire Academy - Evacuation Policies and Procedures including the Decontamination Process
12:30 - 1:15	Lunch
1:15 - ??	Networking and Demonstrations Penn Star Helicopter and Montgomery County Fire Academy Montgomery County Sheriff Department Bomb Squad Procedures City of Philadelphia Arson Dogs

Enclosed please find \$_____ for #_____ tickets to the "Fire Protection Networking--2002" to be held Tuesday April 16, 2002. Cost per person including Lunch will be \$50.00 in advance and \$60.00 at the door. Students \$25.00 in advance and \$35.00 at the door.

Please make check payable to "Fire Protection Networking--2002" and mail to Frank Spitz at Spitz Fire Protection Design 777 Sandra Lane Phoenixville, Pa. 19460

=====

HARTFORD HOSPITAL FIRE

December 8, 2001 marked the 40th anniversary of the Hartford Hospital fire. The Hartford Hospital High Building was 13 stories high housing 11 floors of patients and services, one floor for administration and one floor of equipment (13th). There was also a basement and sub-basement below ground. Licensed in 1854, the Hospital was, by 1960 standards better than the "state-of-the-art with a National reputation. It was a world of medical and modern technology. It also contained a trash chute. It was reported that on any given day the chute received 5,220 tons of debris. There was also a sign at the doors on every floor that stated "burnable waste only" This led many into assuming it to be an incinerator.

On December 8, 1961 all but 21 of the 810 patient beds were occupied. Due to the timing, with overlapping shifts of employees there were more than 2000 people present in the hospital and approximately 5000 total on the 35 acre campus. It has been determined that a lit cigarette was dropped into the chute. This resulted in a smoldering, smoky fire. Without adequate oxygen, the flammable gases collected in the upper portions of the trash chute. The opening of a chute door introduced the needed oxygen and the smoldering fire became a flame shooting 150 feet up the shaft, igniting more gases as it advanced. An open door on the 8th floor permitted the fire to enter the corridor until it was happily shut. However, a weak hinged door on the 9th floor was blown open. The fireball became a "wall of flames traveling instantaneously through open vents and doors leading to patient rooms, killing 16 people in its path and virtually melting the entire 9th floor unit." The fire fed on combustible ceiling tile which sometimes created small bonfires on the floor as they dropped out. The victims included 7 patients, five visitors and four employees. Smoke also penetrated vents in the rooms. In spite of the intense heat the solid core wood door on patients rooms, when kept closed, prevented the fire from entering the rooms.

Fighting the fire from the outside was also a major problem. The 100-foot ladder only reached 8 1/2 stories. The fire was on the 9th floor. One fireman was able to jump from the top rung. He is credited with being able to close doors on 6 patient rooms. He eventually jumped back to the ladder.

Employees worked tirelessly helping the fire service to evacuate the patients. Employees tried to extinguish the trash fire at the end of the chute resulting in a 6-minute or more delay in notifying the fire service. The first alarm was sounded at headquarters at 2:41. The ceiling tile were subsequently found to have a flame spread rating (index) of 180.

This disaster received widespread study and has resulted in a number of important safety oriented code provisions. Today the hospital maintains a Fire and Safety division with five full-time employees who have extensive background and training in fire safety, hazardous materials, inspections and CPR.

This article briefed from Connecticut Department of Public Safety newsletter "UPDATE, Vol. XLV No. 2 Feb. 2002, which in turn was excerpted from the hospital newsletter EXTRA.

NJ Chapter Fire Protection PE Course -- Summer 2002

As per previous issues, the Chapter will be sponsoring an FPE review course this summer. Volunteers are needed to teach/mentor participants for various topics. Please contact John Cholin at 201-337-8621 to sign up as a student or instructor.

EVACUATION OF WORLD TRADE CENTER

The following was excerpted from the "Letter to Editor" section of the NFPA Journal March/April 2002. Dennis Kirson is to be commended for providing some factual data vs. the media speculative "facts" that accompany too many reports on such disasters.

WTC Evacuation

I would like to respond to John Ng's letter to the editor in the January/February 2002 *NFPA Journal*. I must inform you that, at the time of the construction and initial occupancy of the World Trade Center twin towers, I was one of several fire protection engineers working for the Port Authority and thus have an emotional investment in this discussion. I've also never been a proponent of the defend-in-place concept.

Regarding your statement on evacuation, you might be interested to learn that the North Tower was struck between the 93rd and 98th floors. At the crash floors and above, 1,360 people died; none survived. Below the crash line, 72 died and more than 4,000 survived.

The South Tower was struck between the 78th and 84th floors. Of 599 fatalities in the South Tower, only four worked below the crash area.

2001-2002

MEETING DATES/PROGRAM

(Programs Subject to Change)

Watch web page concerning cancellation in case of possible inclement weather conditions

- April 1 Chapter 25th Anniversary Meeting
Legislative Awards
Also Chapter History Brief
- May 6 Sprinkler Economics/Cost Benefits - Speaker to be announced from Sprinkler Fitters
Union 696
- June 3 Viking Upright ESFR - Speaker: Scott Marfarino of Viking

***Watch Web Page for Weather Announcement**

POSITIONS TAKEN BY SPEAKERS ARE NOT NECESSARILY THE POSITION OF THE NJ S.F.P.E.

All meetings are held at the Hanover Manor, Eagle Rock Road, Hanover, NJ (approximately 1½ miles west of Eisenhower Parkway).
Get Acquainted Hour 5:00-6:00 p.m. Adjournment is usually before 8:30 p.m. The Executive Committee meets at 4:00 p.m.

Editors Note--If you would like to advertise your company and help offset the cost of this publication, as well as having your business card in front of over 150 Fire Protection Professionals please call John Cholin at (201) 337-8621 for further information. The cost is \$100 for 10 issues.

COMMITTEES 2001-2002

Standing Committees

Program:

Mike Newman, Peter Rullo, Co-Chairs, with
input from all members
Consulting – Nick Chergotis

NY Chapter Liaison:

Rich Reitberger (Pat Egan back-up liaison)

Arrangements:

Mike Newman, Peter Rullo, Co-Chair

Membership:

Sarge Slicer, Chairman

Nominating:

Joe Janiga, Chairman
Glenn Deitz
Bob Murray

Scholarship Fund:

Rich Reitberger, Chairman
Robert Hall
Two NY Chapter members to be assigned

Auditing:

Jim Tolos
Joe Janiga

Archivist/Historian:

Jim Tolos

Communications:

Fusible Link: Brad Hart, Interim Editor

Dave Gluckman, Asst. Editor
Ana Crisostomo, Publishing

Mailing/Automation:

To be determined

Special Committees

Bylaws: Jim Tolos, Chairman

Joe Janiga – Co-Chairman

Career Recruitment:

Al Dopart, Chairman
Tom Brereton
Joe Stavish
Glenn Deitz
Dave Gluckman

Golf Outing:

Richard Reitberger, Chairman
Bob Murray

Awards:

John Ed Ryan
Frank Savino

PE Examination:

John Cholin, Chairman
Joe Janiga
Mike Newman
Chuck Gandy

Joint Seminar/Chapter Seminar

Richard Reitberger, Chairman
Nick Chergotis
Pat Egan
Dave Gluckman

Legislative:

Rich Reitberger, Chairman
Jerry Naylis
Bob Murray
Nick Chergotis



New Jersey Chapter SFPE
ANNONUNCES

25th Anniversary Dinner Meeting
MONDAY April 1, 2002

Hanover Manor
16 Eagle Rock Avenue
East Hanover, NJ

Social Hour: 5:00-6:00 (Cash bar)
Dinner at 6 PM

HIGHLIGHTS

- Chapter Anniversary presentation and history – Rich Reitberger
- Fire Protection Legislative / Excellent in Government awards – Jerry Naylis
- 25th Anniversary Limited Edition Portfolios for attendees.
Note: Limited quantity. Portfolios will be presented to the first 45 people who respond and attend.
- 25th Anniversary lapel pins and special Anniversary ink pens for all attendees.
- Choice of prime rib or salmon dinner.
- Special anniversary memorabilia also will be available.

\$25 per person

*PLEASE COMPLETE AND RETURN WITH YOUR CHECK PAYABLE TO
"SFPE N.J. CHAPTER"*

To: Rich Reitberger
513 Cross Street
Harrison, NJ 07029

NAME: _____

COMPANY: _____ TELEPHONE _____

Prime Rib

Salmon

ALL RESERVATIONS SHOULD BE RECEIVED BY **FRIDAY, March 29, 2002**. TELEPHONE
RESERVATIONS OR CANCELLATIONS SHOULD BE RECEIVED BY NOON OF 3/29/02

Telephone Number: 973-541-6776 (leave message in voice mail)

Fax Number: 973-402-1070 (please address fax to Rich Reitberger)