



**Editor Fusible Link**  
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# FUSIBLE LINK

MAY 2016

## Chapter Officers

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## Directors

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Open director slot

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## President's Message...

May 4th is the date of our upcoming Technical Spring Symposium which features a Trade Show and a line up of prestigious speakers that are the tops in our industry. During the morning sessions Wayne Moore, PE, FSFPE, SET will present "Designing to meet Audibility and Intelligibility requirements per the latest NFPA 72 Code". Robert Schifiliti, PE, FSFPE will present "Circuits and Pathways Planning, Design and Installation for Failure or for Success". For the afternoon sessions we have John Druker, CET, Fire Sub Code Official presenting "New Requirements to meet Current Codes recently adopted by the State of NJ" and Jerry Naylis, ARM presenting "Riding the Rails - An Engineering Approach to Evaluating & Protecting Hazardous Materials on Railroads and Responding to Incidents". Details are in this issue of the Fusible Link. The Trade Show kicks off the day at 7:30 am with a Continental Breakfast. Buffet Lunch also will be served around noon. Come on out and spend the day with your Peers while increasing your professional knowledge and also finding out about the latest technologies and equipment at the Trade Show.

See you all on the 4th !!

Rich Reitberger  
President

**Chapter Meeting Minutes  
April 4, 2016**

President Rich Reitberger convened the meeting at 6:03 PM with a salute to the flag and customary introductions.

A motion was made and carried to accept the minutes of the last meeting.

A motion was made and carried to accept the treasurer's report from March, 2016.

A motion was made and carried to accept the application of John Drucker as a member of the NJ Chapter.

Joe Janiga mentioned that plans are to keep the current slate of officers for next year. We need to fill the open director's spot so let him know if anyone is interested.

Jim Loftus spoke about the upcoming symposium. Registration for vendors and participants is underway. We have 13 vendors and would like to get 26. We have begun to line up our speakers for the symposium. Gerry Naylis will be making a presentation regarding the Lac-Mégantic rail disaster. Also presenting will be a representative from CSX or Norfolk and Southern. Due to the importance of this topic, we would like to have emergency

managers, code officials, fire marshal's, etc. from the towns that would be affected in the event of a train disaster involving Bakken fuel oil attend as well.

Other speakers lined up include Wayne Moore, John Drucker and Bob Schifiliti.

Joe Janiga brought up the topic of having to have jurisdictional inspections performed on bladder tanks used in foam suppression systems since they are pressurized vessels and have a National Board stamp. Usually, these items require the issuance of an operating certificate. No one in the audience was familiar with this topic or aware of the need for jurisdictional inspections on these tanks.

Various door prizes were distributed before the presentation.

Jeff Kochelek, CEO of Engineered Corrosion Solutions, LLC gave us a presentation discussing the science of corrosion in automatic sprinkler piping specifically with regard to the role oxygen plays in corrosion reaction in wet systems and steel pipe.

Engineered Corrosion Solutions, LLC is a

corrosion engineering firm specializing in helping clients understand and manage risk associated with leaking fire sprinkler systems. Corrosion in fire sprinkler systems leads to water damage, plugging problems, reduced hydraulic performance and reduced service life. The risks associated with corrosion in fire sprinkler systems include life safety risk, property risk and business continuity risk.

The presentation we received, titled Managing Corrosion Risk in Water Based Fire Sprinkler Systems, focused on four key elements:

- Industry myths
- Factors that accelerate corrosion failure
- Options for controlling corrosion
- Corrosion monitoring

Additional information including brochures and other technical data is available at: <http://ecscorrosion.com/>

The meeting was adjourned at 8:05 PM.

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## Chapter Supporting the PE exam Again This Year

The chapter is looking to organize a PE Exam Study Group that would meet once a week and prepare those who are interested in taking the FPE exam in October, 2016. The Chapter would arrange a classroom to meet one evening per week where students could watch the on-line SFPE course. Students would have to enroll in the course themselves. The Chapter would only arrange for the classroom space. The link below is the SFPE Course information. The Chapter is looking to see who may be interested in the course.

<http://sfpe.site-ym.com/?page=PEExamPrepCourse>

If you have an interest please contact Rich Reitberger at [richreit522@gmail.com](mailto:richreit522@gmail.com)

## NJ Chapter Looking for an Additional Director

The chapter is looking for a new Board Director. The term is for two years and involves participating in the board meetings an hour prior to the start of the Chapter's monthly meetings as well as the annual planning meeting held in the summer. If you have an interest please contact Joe Janiga at [Joseph.Janiga@fmglobal.com](mailto:Joseph.Janiga@fmglobal.com) or Rich Reitberger at [richreit522@gmail.com](mailto:richreit522@gmail.com)

## Joint NJ Chapter SFPE and AFAA NJ Chapter annual Spring Symposium – May 4<sup>th</sup>

Our annual symposium will be held again this year at the Hanover Manor, 16 Eagle Rock Ave East Hanover, NJ 07936. It will be on May 4<sup>th</sup> and will run from 8 am to 5 pm. There is a great line up of speakers and trade vendors.

Doors open at 7 am and a continental breakfast will be served. The vendor trade show will begin at 7:30am. To register as an attendee go to the following link **(if the links below don't work, copy and paste into your browser):**

<https://events.r20.constantcontact.com/register/eventReg?oeidk=a07eccp81ii7a088b8c&oseq=&c=&ch=>

To register as a Trade show vendor go to the following link:

<https://events.r20.constantcontact.com/register/eventReg;jsessionid=A392E1FC7D4178CFB18A05FDF6F57228?oeidk=a07eccpujpw82ac4ed9&oseq=&c=&ch=>

Attending the symposium, browsing through the trade show equipment and speaking to the various trade show vendors is a sure way to keep you up to date on the latest and most interesting topics in our industry. It will also help you to stay abreast with the latest advancements in technology.



[Click to register as a vendor.](#)



[Click to register as an attendee.](#)



**Seventh Annual Spring Symposium and Trade**

Topic/location	Fire Alarm & Detection	Sprinkler
Continental Breakfast	Doors will open at 7:00 AM May 4 at the Hanover Manor for set up.	
	<p align="center"><b>Trade Show 7:30—8:30</b> and welcome by Presidents NJSFPE &amp; AFAANJ</p>	
Main Hall	<p align="center"><b><u>Wayne Moore, PE, FSFPE, SET</u></b></p> <p align="center">Designing to meet audibility and intelligibility requirements per latest NFPA 72 requirements.</p>	
	<p align="center"><b>Trade Show 10:00-10:30</b></p>	
Main Hall	<p align="center"><b>Robert P. Schifiliti, P.E., FSFPE</b></p> <p align="center">Circuits and Pathways Planning, Design and Installation for Failure or for Success?</p>	
	<p align="center"><b>Lunch with vendors and continued trade show. 12:00-1:30</b></p> <p align="center"><i>Vendors can break down at 1:30 or at end of day.</i></p>	
Room to be determined	<p><b>John Drucker, CET Fire Protection Subcode Official</b></p> <p>New requirements to meet the current codes recently adopted by the State of NJ. Detailed analysis of the NJ Adoption of the I Codes and NFPA codes.</p>	<p><b>Jerry Naylis, ARM</b></p> <p><b>"Riding the Rails" - An Engineering Approach to Evaluating &amp; Protecting Hazardous Materials on Railroads and Responding to Incidents</b></p> <p>On July 6, 2013 an unattended 74-car freight train carrying Bakken crude oil rolled down a 1.2% grade hill and derailed in the middle of downtown Lac-Mégantic, Quebec, Canada.</p> <p>Lessons learned and how to prepare for events in your town.</p>
	<p align="center">Information may be found at <a href="http://www.afaanj.org">www.afaanj.org</a> Credit will be offered for CEU, CPD, PEU, &amp; those with NJ AIA, PE &amp; Permits</p>	



## LOSS ALERTS



### Sprinklers Control Fire in a Dust Collector

**Loss Detail:** A cardboard box manufacturing facility has an extensive cyclone dust collection system—feeding a 4,800-ft.<sup>3</sup> (136 m<sup>3</sup>) rooftop baghouse containing more than 500 filter bags.

One morning, employees noticed light smoke coming out of the ventilation ductwork at the ceiling of the main production area. Within 30 seconds, heavy, black smoke began pouring into the building. The smoke spread along the ceiling throughout the entire 300,000-ft.<sup>2</sup> (27,871 m<sup>2</sup>) facility.

Upon arrival, fire department personnel determined the source of the smoke was a fire in the roof-mounted cyclone dust collector. By this time, eight automatic sprinkler heads had already operated in the baghouse and it is believed the fire was extinguished before the fire department arrived.

It was also determined that the most likely cause of the fire was an overheated auger bearing that ignited paper dust within the dust collector. Finished goods and works in progress had to be discarded due to smoke damage, but thermal damage from the actual fire was limited to the dust collector.

Plant production came to a complete halt for two days, while the dust collector was repaired and plant personnel conducted cleanup of the facility. Full production resumed about five days after the event, once the baghouse replacement parts were received and installed.

Thanks to the sprinkler protection in the baghouse, the fire did not spread to the main building and a prolonged production outage was avoided. This loss was about US\$1.2 million.

**Loss History:** Over many years of analyzing fire events we have established that fires at our client's facilities with automatic sprinkler protection are generally about 7 times less costly than fires at facilities without sprinkler protection.



## LOSS ALERTS



### Ignitable Liquid Fire and Explosion

**Loss Detail:** This loss occurred at a food label printing facility that utilizes a paint mixing operation as part of the process. The building construction consists of masonry/concrete walls and ceilings, and a reinforced concrete roof. While the facility does not have automatic sprinkler protection, there is an automatic carbon dioxide (CO<sub>2</sub>) system in the paint mixing area (~1,100 square feet/~100 square meters) that is activated by a smoke detection system.

Employees noted a fire in the paint mixing area, near one of the many steel tanks used in the process. Manual firefighting efforts (with fire extinguishers) were unsuccessful and within several minutes an explosion occurred, activating the CO<sub>2</sub> system. The fire department arrived and began applying water to the area. A second explosion occurred approximately 20 minutes later. Additional fire departments responded and the fire was extinguished after about two hours.

Fortunately, the fire did not spread to the adjacent printing area of the facility, as the paint mixing area was well compartmentalized. However, all of the paint mixing equipment, supply piping, exhaust venting ductwork, electrical wiring, etc., in this area were destroyed by fire and high heat and required replacement. The building itself suffered structural damage due to the explosions.

Additionally, smoke spread throughout the adjacent areas. Immediate cleaning activities were undertaken to remove the residue in the printing machine areas and to prevent further corrosion of tools and machinery.

This loss is estimated at more than US\$3 million, with building repairs to take three months, and equipment replacement up to six months. In the meantime, there are efforts to establish a manual paint mixing process to enable continued production.

Even with the positive factors of noncombustible construction and good emergency response, this was a significant loss. It is likely that automatic sprinklers would have controlled the fire and greatly reduced the possibility of the ensuing explosions, minimizing the damage and disruption to production.

**Loss History:** In a recent 10-year period, FM Global clients experienced more than 675 fire losses involving ignitable liquids. The average loss was more than US\$3.5 million.

# Nomination of Officers and Directors for 2016-17 NJ-SFP

President Reitberger, according to the Bylaws of the New Jersey Chapter of the SFPE, the nominating committee submits the following slate of Officers and Directors for the NJ Chapter's 2016-17 year. The election is scheduled to be conducted at the annual business meeting to be held on June 20, 2016 at the Hanover Manor.

## OFFICERS

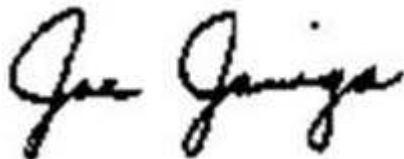
President, Rich Reitberger  
First VP, Paul McGrath  
Second VP, Mike Newman  
Secretary, Chris Vitale  
Asst. Secretary, Dave Gluckman  
Treasurer, Marios Michaelides  
Asst. Treasurer, Glenn Buser

## DIRECTORS

Jim Loftus (1<sup>st</sup> year of 2<sup>nd</sup> term)  
Marvin Maradiaga (1<sup>st</sup> year of 1<sup>st</sup> term)  
Ed Armm (2nd year of 1st term)  
Ernesto Vega-Janica (2nd year of 1st term)

Joe Janiga is Immediate Past President, a voting member of the Board of Directors and Chairman of the Nominating Committee.

The Nominating Committee and the Board of Directors welcome volunteers to serve in leadership capacities on the Board or Committee activities. Any member with a desire to run as candidate for Chapter Officer or Director is encouraged to do so. Contact the Chapter Secretary, Chris Vitale at [Christopher.vitale@fmglobal.com](mailto:Christopher.vitale@fmglobal.com) by May 20, 2016 which is at least 4 weeks before the business meeting.



Joe Janiga, Operations Chief Engineer, FSFPE  
FM Global - New York Operations  
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Ph: 973-541-6774  
Email: [joseph.janiga@fmglobal.com](mailto:joseph.janiga@fmglobal.com)

## **CSB's Investigation into Macondo Finds Risk Management and Regulatory Oversight still Inadequate**

On April 20, 2010, a multiple fatality incident occurred at the Macondo oil well approximately 50 miles off the coast of Louisiana in the Gulf of Mexico during temporary well abandonment activities on the Deepwater Horizon (DWH) drilling rig. Control of the well was lost resulting in a blowout, the uncontrolled release of oil and gas (hydrocarbons) from the well.

On the rig, the hydrocarbons found an ignition source and ignited. The resulting explosions and fire led to the deaths of 11 individuals, serious physical injuries to 17 others, the evacuation of 115 individuals from the rig, the sinking of the Deepwater Horizon, and massive marine and coastal damage from a reported 4 million barrels of released hydrocarbons.

A twenty-page report of what happened as of current information and where things stand currently in the Gulf of Mexico regarding oil platforms can be found in their report ( about 20 pages) which includes recommendations. The following link will take you to the report:

<https://www.dropbox.com/s/oadxmn7me0xbdg9/20160412%20Macondo%20Full%20Exec%20Summary.pdf?dl=0>

To give you an idea of the reports contents and relative sort length the Table of Contents is as follows:

- DEDICATION Page 3
- INCIDENT REVIEW - Page 6
- New Lessons - Page 7
- Report Structure - Page 9
- Investigative Approach - Page 10
- Investigative Challenges - Page 11
- Key Investigative Findings and Conclusions - Page 12
- Technical Factors - Page 12
- Human and Organizational Factors - Page 13
- Regulatory Factors - Page 17
- Recommendations Summary - Page 22



# Employment Opportunities

## ARUP is looking for a Senior Fire Consultant/Engineer - Tri State Region - offices in Edison and NYC

At Arup, our innovative spirit compels us to express our ingenuity in unique ways —developing many of the world's most innovative and sustainable buildings, transport and civil engineering projects. Arup is a global engineering and consulting firm of 11,000 creative minds.

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We are currently seeking a Senior Fire Consultant/Engineer to play a very active role in the continued development of Arup's fire engineering practice in the Americas and will work closely with many of the world's leading architects and building owners developing innovative, performance based design solutions for a wide range of building, industrial and transport projects.

### Your responsibilities will involve:

- Provide fire safety consulting engineering services to a variety of potential clients, including but not limited to architects, developers, owners, government and insurers.
- Consulting on building codes and standards including IBC, NFPA codes and tri-state jurisdictions (NYC, NYS, NJ).
- Develop fire strategies for projects across all markets
- Fire alarm design and construction administration support including reviewing shop drawings, submittals, RFIs and conducting field reports for large rail projects.
- Responsible for project management of multiple projects to ensure successful delivery on time and budget.
- Developing client relationships and pursuing new business opportunities.
- Contributing to our research and development activities.

Qualified professionals will have a Bachelors or Master's degree in Fire Engineering or related field. PE license in fire protection engineering desired. Candidate must possess good communication skills essential for team-based working, excellent planning and organization skills required for our fast-paced environment, and must be highly motivated, proactive and willing to take on new challenges.

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Arup is proud to be an equal opportunity employer.

APPLY at: <https://arupjobs.taleo.net/careersection/jobdetail.ftl?job=NEW000037&lang=en>



John M. Cholin P.E., FSFPE, M.E.E.

### J.M. Cholin Consultants, Inc.

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Paul McGrath  
President  
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## Meeting Dates/Programs 2015-2016

<b>May 4</b>	<b>Joint NJ Chapter SFPE and AFAA NJ Chapter Annual Spring Symposium—Hanover Manor</b>
<b>June 6</b>	<b>James Goerl Golf Outing will be held at the New York Country Club in New Hempstead, NY</b>
<b>June 20</b>	<b>Annual Meeting—Use of Large Capacity Lithium Batteries in NYC Buildings</b>

**Ernesto Vega Janica, SET**  
Senior Consultant

**RJA**  
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The NY/NJ Chapters Scholarship Golf Outing Committee sends their special thanks to our long time sponsor Russ Fleming and the National Fire Sprinkler Association We appreciate your continued support !!

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**HELPFUL LINKS**

- ADAAG** <http://www.access-board.gov/adaag/about/index.htm>
- AFAA National** <http://www.aaaa.org/>
- AFAA NJ** <http://www.afaan.org/>
- AFAA National** <http://www.aaaa.org/>
- AFAA NJ** <http://www.afaan.org/>
- AFAA National** <http://www.aaaa.org/>
- AFAA NJ** <http://www.afaan.org/>
- AFAA National** <http://www.aaaa.org/>
- AFAA NJ** <http://www.afaan.org/>
- AFSA** <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.afaan.org/>
- International Code Council -** <http://www.iccsafe.org/>
- International Code Council Residential Sprinkler Exam -** [http://www.iccsafe.org/news/nr/2009/0709\\_ResidentialSprinklerExam.pdf](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>

**2015-2016 CHAPTER COMMITTEES**

**STANDING COMMITTEES**

- Program**  
Mike Newman
- Arrangements**  
Vicki Serafin, Chairperson
- Membership**  
Paul McGrath, Chairman
- Nominating**  
Joe Janiga, Chairman (IPP)  
Chris Vitale  
John Antola, Jr.
- Auditing**  
Vanessa Gallagher, Chairman  
Rich Reitberger
- Archivist/Historian**  
Jim Tolos, Vicki & Nicole
- Speakers Gifts**  
Rich Reitberger
- Communications**  
Fusible Link—Brad Hart  
Ana Crisostomo—Coordinator
- Communications-Other**  
Paul McGrath  
Mike Newman
- Mailing/Automation/e-mail—Vicki Serafin, Chairperson**
- Webmaster—Mike Newman & Paul McGrath**

**SPECIAL COMMITTEES**

- Spring Seminar**  
Ed Arm—Chairman  
Dave Kurasz—Sprinkler Speakers Coordinator  
Jim Loftus—Alarm Speakers Coordinator  
Paul McGrath—Vendor Coordinator
- Bylaws**  
Jim Tolos, Chairman  
Joe Janiga  
John Antola
- Career Recruitment**  
Tim Costello, Chairman  
Donna Spano  
Marios Michaelides
- Chapter Excellence Awards**  
Ernesto Vega-Janica

- PE Examination**  
Donna Spano

- Chapter Seminar/Field Trip**  
Richard Reitberger, Chairman  
Ed Arm, CoChairman  
Dave Gluckman  
Nathan Gorey

- Legislative**  
Rich Reitberger, Chairman  
Jerry Naylis  
Dave Kurasz

- Finance**  
Rich Reitberger - Chairman  
Vanessa Gallagher  
C. Patel

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