President’s Message….

On Monday morning, February 5, Joe Janiga with FM Global, made an excellent presentation on the fire protection challenges of Automatic Storage and Retrieval Systems. These systems have and will become more prevalent in the e-commerce environment. Joe mentioned that Data Sheet 8-34 was updated in July, 2017 and is available on the FM Global web site. He mentioned that currently no other protection criteria for ASRS currently exist.

We want to welcome new members John Zalepka, Nicholas Barona, and John Milian.

Registration is open for the 2018 NJSFPE-AFAANJ Annual Technical Seminar to be held on Thursday, April 19th at the Hanover Manor. Click on the link below to register:

2018 NJSFPE-AFAANJ Technical Seminar

Vendor registration is also open for those would like to support this education event. To register please click on the link below:

Vendor Registration

The State of New Jersey has adopted the 2015 New Jersey Uniform Fire Code. This is the first update to the maintenance and retrofit code since 2006. The effective date for compliance will be July 1, 2018.

The topic of the presentation at our Monday, March 5th meeting at Hanover Manor will be “Wireless Fire Alarm Systems” and our speaker will be Jason Crouch of Johnson Controls.

We look forward to seeing you there!

Paul

Chapter President
President Paul McGrath convened the meeting at 9:01 AM.

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

A motion was made and carried to accept the October, November and December, 2017 treasurer’s reports.

A motion was made and carried to accept the applications of John Zalepka, Nicholas Barona, and John Milian.

Paul thanked the members who attended and the chapter for sponsoring the Fire Facts seminars in Princeton and Seton Hall.

The symposium is on April 19 and registration for sponsors and vendors is now open and five have already signed up. Registration for attendees will be opening up shortly. There will be two educational tracks one for everyone to attend in the morning session and then a split session for the afternoon.

This morning’s speaker was Joe Janiga and he addressed the fire protection challenge of Automatic Storage and Retrieval Systems (ASRS). These systems are becoming more and more common in warehouses and FM Global has recently completed a series of models and full scale testing. Specific items Joe presented included:

- Various storage arrangements
- Challenges of protecting mini-load type ASRS
  - Aisles less than 4 ft. wide
  - Tier heights typically 1 ft. wide
  - Rack uprights closely spread about 2 ft. apart
  - Transverse flue spaces about 2 in.
  - Storage supports on angle iron
  - Low clearance between tiers when containers are used.
  - Containers can be unexpanded plastic, open-top, or cardboard
- Main fire hazards associated with ASRS
  - Narrow aisles
  - Narrow transverse flue spaces
  - Water diverted from transverse flue spaces
  - Open top containers collect water
  - Plastic containers cannot be pre-wetted
- Specific details regarding the test program that started in 2012 regarding ceiling sprinklers and a 25 foot storage height
- Information about the Phase 2 research test program conducted in 2016 to determine in-rack sprinkler guidance for mini-load ASRS arrangements.

Joe mentioned that Data Sheet 8-34 was updated in July, 2017 is available on the FM Global web site and no other protection criteria for ASRS currently exist.

Paul announced that our next meeting on March 5 will be back at the Hanover Manor at 6 PM. The topic of the presentation will be “Wireless Fire Alarm Systems” and our speaker will be Jason Crouch of Johnson Controls.

The meeting was adjourned at 10:11 AM.
Now is the time to invest in your fire sprinkler system or retrofit your building with lifesaving and property conserving protection.

In December, Congress passed the most sweeping tax reform legislation since 1986. Included in this legislation (P.L. 115-97) are two provisions that will greatly incentivize the installation of fire sprinklers. The National Fire Sprinkler Association appreciates the efforts and work that happened for 14+ years prior to this passage that allowed fire sprinklers to be included. A special thank you to Congressman Jim Langevin, who has championed this inclusion since the beginning as a result of the Station Nightclub fire being in his district. We also thank all of our fire service partners – Congressional Fire Services Institute, International Fire Chiefs Association, International Fire Fighters Association, National Fallen Firefighters Foundation, National Fire Protection Association, Common Voices, National Volunteer Fire Council, Security Industry Association, Phoenix Society for Burn Survivors and many others. Understanding the costs of fire is important to business owners across America, and NFSA now shifts our work to sharing this information with our fire service allies and stakeholder groups that are directly affected.

The fire sprinkler incentives are:

- **Cost Recover Section 13201** – Previously sprinkler systems in commercial structures were depreciated over a 39-year time horizon and residential structures over 27.5 years. Under the new law any sprinkler system installed after September 27, 2017 in either a commercial or residential structure until December 31, 2022 will be able to be fully expensed. Therefore, the property owner will be able to immediately write off the full cost of the sprinkler system. After 2022 the ability to deduct the cost is as follows:
  - 2023: 80%
  - 2024: 60%
  - 2025: 40%
  - 2026: 20%
  - 2027: The depreciation schedule will revert back to 39 and 27.5 years for commercial and residential properties (respectively).

- **Small Business Section 179 Expensing** – Previously qualified small businesses were allowed to fully expense purchases such as computers, equipment and light duty vehicles up to an annual cap of $500,000. Under the new law Congress has added fire protection as an eligible expenditure under section 179 of the tax code. Congress also increased the cap to $1 million as the amount that a small business can deduct in a single year. This provision applies only to commercial structures and cannot be used for retrofitting sprinklers into residential structures. However, critical occupancies such as entertainment venues could easily be done under this provision. This change is also a permanent law and unlike section 13201 is not gradually phased out over time.

In order to help our members and interested stakeholders fully understand this new tax law, we have created a few examples. If you have a question about a building type that is not shown or additional questions about those that are listed, please reach out to us by contacting Vickie Pritchett, Director of Outreach & Government Relations at 443-569-9506 or via email at pritchett@nfsa.org.

Fire sprinklers save lives, property, water, money, the environment, and on and on. Keep your patrons safe, keep your business running and limit your liability.
The U.S. Occupational Safety and Health Administration said Thursday that it has cited four Denver-based employers for exposing employees to health and safety hazards at an oil and gas tank battery construction project, with $70,711 in proposed penalties.

OSHA has cited Anadarko Petroleum Corp., Energes Services L.L.C., Dominguez Welding L.L.C. and Unlimited Services L.L.C. Last May, one employee was killed in an explosion and fire and three others suffered third-degree burns after the employees were merging two tank batteries into a single tank battery operated by Anadarko Petroleum. OSHA inspectors found that “flammable vapors or gases ignited as employees worked near pipes connected to a crude oil tank,” the agency said in a statement.

The companies were cited for introducing potential ignition sources into work areas containing flammable gases or vapors; not isolating flammable gases or vapors from welding activity; and not adequately inspecting the worksite and addressing safety hazards including an excavation, according to the statement.

“Oil and gas industry employers must take proper precautions for hot work in the presence of flammable hydrocarbon vapors,” Herb Gibson, Denver-based OSHA area director, said in a statement. “OSHA and the industry have issued guidance for employers on the hazards of flammable materials and appropriate protective measures.”
Resilinc recently released its 2017 EventWatch Supply Chain Disruption Annual Report, and the top two disruptive event types by a significant margin were factory fires and explosions and mergers and acquisitions.

The report is based off the 2017 data collected by Resilinc’s EventWatch software, which monitors and analyzes global events that are potentially disruptive for supply chains and then alerts customers. In 2017, EventWatch published on average five bulletins a day.

Last year saw 343 bulletins on factory fires and explosions, or nearly one out of every five bulletins. M&A activity was the second most frequent supply chain event type, with 324 bulletins in 2017. Other common events were business sales or spin-offs, factory shutdowns or disruptions, and tropical storms.

Source: Resilinc EventWatch
As the chart above shows, the frequency of alerts for factory fires and explosions nearly doubled from 2016 to 2017. Shahzaib Khan, director of EventWatch at Resilinc, explains that this may in part be due to new suppliers that Resilinc onboarded last year.

“Factory fires have always been our top risk type, apart from 2016, when mergers and acquisitions took the top spot,” Khan says, “This year factory fire returned to the top. And you’ll be surprised that factory fires were actually mostly in the high tech and automotive industry.”

Indeed, the automotive industry had the highest number of bulletins in 2017, as well as an increase of 395 bulletins from 2016 to 2017. In comparison, other industries saw an increase of around 300. The top event types were similar for the automotive, life sciences and high tech industries, and for the life sciences industry, M&A activity ranked first.

“When your supplier is being acquired, you should monitor that very closely,” said Khan. “It may not have a direct or short-term risk, but over the long term you will see a lot of changes happening in the management.”

Bindiya Vakil, Resilinc’s CEO, shared a story from her own career: “I was in direct materials management and lived through multiple [M&A situations]. One time we were buying a connector. It was a custom connector for our product, and it was about a couple hundred thousand dollars in terms of spend. But it was completely single sourced. Only one site could make it, and the company got acquired. [Then] the acquiring company said, ‘Oh, it’s just three or four hundred thousand in revenue. Let’s kill this product.’ [But] the product that we used that connector on was $4 billion a year in revenue.”

In the immediate aftermath of M&A activity concerning a supplier, Vakil recommends picking up the phone and scheduling a meeting to find out what the roadmap looks like. This is crucial for single-sourced items that are used for high-revenue products.

Other notable findings from the report include the fact that for the first time North America was the region with the most supply chain disruptions as a result of natural disasters.

Last year’s top five most significant supply chain events, by order of the number of supplier sites affected, were the March storm that hit the Northeastern U.S., the Laredo border closing, Hurricane Irma, Hurricane Harvey and Hurricane Maria.

As 2018 progresses, the report recommends that supply chain professionals keep an eye on the following ongoing events and risks:

- Cyberattacks
- Geopolitical developments in North Korea
- China’s efforts to combat pollution, factory shutdowns and manufacturing limitations
- NAND flash chip supply shortages
- Increased severity of natural disasters
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- CUSTOM PACKAGED FIRE BOOSTERS WITH UL/FM COMPONENTS
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- SINGLE-SOURCE RESPONSIBILITY

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Los Angeles – St. Louis – New York City

Company Background

Code Consultants, Inc. (CCI), a privately held and internationally recognized fire protection engineering and life safety consulting firm, is seeking experienced professionals to join our New York City office.

Founded in 1973, CCI is an industry leader, providing a diverse range of crucial fire protection and life safety consultation and design services including but not limited to:

- building and fire code consulting
- life safety consulting
- hazardous materials analysis
- accessibility consulting
- fire sprinkler design
- fire alarm design
- mass notification design
- fire and egress modeling

CCI’s experienced and trained team of over 80 professionals consist of fire protection engineers, architects, civil/mechanical/electrical engineers, code officials and members of the fire service. At CCI we value our team members and continuously strive to provide a great culture, career and personal development opportunities.

As a privately held firm, CCI’s management team is fully responsible for the strategic direction of the firm and successfully manages growth by maintaining a stable organizational structure, consistent professional service products across our offices, and applying objective performance-based compensation.

Role

As a member of the CCI team your responsibilities will include:

- Fire protection and life safety code consultation for a wide variety of projects and clients.
- Fire and egress modeling and developing alternate method concepts.
- Collaborating with CCI team members and clients, and interfacing with Building/Fire Officials.
- Participating in business development initiatives to expand and develop CCI services.
- Participating in the growth and development of your office, and CCI as a whole.

Qualifications

Ideal candidates will possess the following:

- A degree in fire protection engineering or related engineering discipline.
- Knowledge of Building/Fire/NFPA Codes and Standards related to fire protection and life safety.
- Excellent written and verbal communications skills.
- Be motivated by growth opportunities for themselves and CCI.
- Passion for providing the highest level of services to CCI clients.
- Sufficient experience to work autonomously on project related tasks.
- Fundamentals of Engineering (FE) or Professional Engineering (PE) licensure is desirable, but not required.

Compensation

CCI offers an excellent compensation package with an objective performance-based bonus program and benefits (including 401(k) with matching contributions, health, dental, vision, life and disability plans).

Contact

Interested and qualified candidates may send resumes to CCI’s Human Resources Department at HR@CodeConsultants.com.

Code Consultants, Inc. is EOE/Minorities/Females/Vet/Disabled
Donate today and help a Fire Protection Engineering student reach their goal of becoming an FPE. Your donation is also tax deductible. [www.njsfpe.org/scholarship_fund_donations]
### Meeting Dates/Programs 2017-2018

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<td>Wireless Fire Alarm Systems—Speaker Jason Crouch of Johnson Controls</td>
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<tr>
<td>April 19</td>
<td>Chapter Technical Seminar—Details to follow</td>
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<td>May 7</td>
<td>Fire Pump Arc Flash—Tracey Bellamy, Telgian</td>
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<td>June 4</td>
<td>NJ-NY Metro Education Golf Outing</td>
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<td>June 18</td>
<td>Dave Barber, Principal Engr, Arup—Topic: “Tall Wood Buildings”. Annual Chapter meeting and election of officers.</td>
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HELPFUL LINKS

ADAAG  http://www.access-board.gov/adaag/about/index.htm
AFAA National  http://www.afaa.org/
AFS  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
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/
AFAA-NJ  http://www.afaanj.org/
The Joint Commission (JCAHO) -  http://www.jointcommission.org/World/JointCommission.org/
National of Fire Equipment Distributors (NAFED) -  http://www.nafed.org/index.cfm

2017-2018 Chapter Committees

STANDING COMMITTEES

Program
Mike Newman

Arrangements
Vicki Serafin, Chairperson

Membership
Paul McGrath, Chairman

Nominating
Marvin Maradiaga
Jim Burge

Auditing
Vanessa Gallagher, Chairman
Rich Reitberger

Archivist/Historian
Jim Tolos, Vicki & Nicole

Speakers Gifts
Rich Reitberger

Communications
Fusible Link—Brad Hart
bradhart07438@yahoo.com
Ana Cristoston—Coordinator

Communications-Other
Paul McGrath
Mike Newman

Mailing/Automation/e-mail—Vicki Serafin, Chairperson
Webmaster—Mike Newman & Paul McGrath

SPECIAL COMMITTEES

Spring Seminar
Ed Armim—Chairman
Dave Kurasz—Sprinkler Speakers Coordinator
Jim Lothus—Alarm Speakers Coordinator
Paul McGrath—Vendor Coordinator

Bylaws
Jim Tolos, Chairman
Joe Janiga
John Antola

Career Recruitment
Tim Costello, Chairman
Dionna Spano
Marios Michaelides

Chapter Excellence Awards
Emeesto Vega-Jania

PE Examination
Dionna Spano

Chapter Seminar/Field Trip
Richard Reitberger, Chairman
Ed Armim, CoChairman
Dave Gluckman
Nathan Goroy

Legislative
Rich Reitberger, Chairman
Jerry Naylis
Dave Kurts

Finance
Rich Reitberger - Chairman
Vanessa Gallagher
C. Patel

Membership Renewal Fee (CIRCLE ONE)

Business Card ......... $ 100
1/4 Page .................... $ 2.00
1/2 Page .................... $ 300
Full Page .................... $ 1,000

Payment:
- To pay by Credit Card click here:  Pay Online Here
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CO NJ Chapter-SFPE
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Paramus, NJ 07652-1186

*Please send your Scanned Business Card or Artwork to the following email addresses:

Vicki Serafin@affiliatedfm.com & richard522@gmail.com

Any questions call Viki at: 973-541-4571

Thank you for your continued support!