Editor Fusible Link
Brad Hart &
Lindsey Taylor
Tel.: 207-389-4674
bradhart07438@yahoo.com

FUSIBLE LINK

January 2022

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Rich Reitberger (Axis)
richreit522@gmail.com
Vice President
Paul McGrath (City Fire)
paul@cityfire.com

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jwjaniga@gmail.com
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mmichaelides@lockton.com
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paul@cityfire.com

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Marvin Maradiaga (FM Global)
marvin.maradiaga@fmglobal.com
Ernesto Vega-Janica, IEEE
evj2@hotmail.com
Glenn Buser (Lockton)
gbuser@lockton.com
Evan Fitzgerald
efitzgerald@risklogic.com

Special Executive Assistant to The Board
Vicki Serafin
Affiliated FM Insurance
300 Kimball Drive – Suite 200
Parsippany, NJ 07054
vicki.serafin@affiliatedfm.com
973-541-6771

Happy New Year !

There will be No General Chapter meeting this month as the Chapter Officers and Trustees will be meeting virtually to work on, review and pass the 2022 Chapter Budget. The annual December Holiday Party and Wine Tasting event was held at the Hanover Manor Dec 6th and was well attended. We also want to thank Vinny Pisano from Cullen Pump for providing the gift baskets which benefit the Hope for Veterans Foundation.

At the meeting we also were pleased to introduce New Jersey and Metro Chapters Education Foundation scholarship recipients Ryan Urban and Kelly Kavanaugh from the New Jersey City University Fire Science Program. Each student received $2,500 towards their tuition. Congratulations to Ryan and Kelly. If you know students in a Fire Science Program or a Fire Protection Engineering curriculum contact me at richreit522@gmail.com for further information on scholarship opportunities from our Chapters Foundation.

Thank you for your support in 2021 and we look forward to your participation in 2022.

Rich Reitberger
Chapter President

February Speaker change.

Now will be Sam Schwander from Reliable Sprinkler who will do a webinar on Specialty Application Sprinklers. Sign in details to follow.

Monday February 7th at 12 noon

SFPE New Jersey

NJ CHAPTER RENEWAL DUES NOTICE - 2022

Name: _____

Company: _____

E-mail Address: _____

Membership Renewal Fee: (CIRCLE ONE)

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Renewal questions can be directed to Vicki at: 973-541-6771 or email her at: Vicki.Serafin@affiliatedfm.com

Are you interested in working on one of our Chapter Committees or Educational Programs? If yes email Vicki at vicki.serafin@affiliatedfm.com

If you are interested in becoming a member of SFPE International?
click here **SFPE International**

Thank You for Your Continued Support

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Any questions call Vicki at: 973-541-6771

Thank you for your continued support

DECEMBER 06, 2021 | FEATURE ARTICLE

IN 'GOING GREEN,' COMPANIES CAN FACE SURPRISING RISKS

DR. LOUIS BRITZO VICE PRESIDENT AND MANAGER OF RESEARCH, FM GLOBAL

FORBES NOVEMBER 15, 2021

Sustainability measures like adopting renewable energy technologies, improving energy efficiency, and reducing one's emissions are not only laudable for a global organization; they're critical for our planet's future. But like any major transformation, going greener introduces risks the business must understand, quantify and manage.

Because of the inherent benefit of sustainability measures, these risks can be overshadowed. These risks are also above and beyond the climate-related financial risks regulators are already pressuring companies to disclose.

There are two broad types of added risk with financial implications: property damage and hidden greenhouse gas emissions. Thus, there is a two-part method for avoiding these adverse unintended consequences. The first part is weighing the risk of fire or extreme weather on the sustainability measures being considered for facilities and grounds. The second part is to look at sustainability impact over an entire life cycle, not just in one good year.

Fire is still the primary cause of property damage and business interruption for commercial and industrial operations. A fire caused by, say, a solar panel wiring problem will not only be a financial and reputational hardship; it will produce greenhouse gases, and may pollute local environments. The impact goes far beyond the fire itself, however. The reconstruction process, from raw materials through return to operations, will require the emission of additional greenhouse gases during manufacturing, transportation and installation. These emissions are referred to as *embodied carbon*—emissions that are embedded in the property of a business. This concept can help ensure that new sustainability measures don't create new problems.

Underaddressed risks from fires and natural hazards actually increase total greenhouse gas production over a facility lifecycle. Insufficient fire protection increases carbon emissions by 1-2% over the life of a standard office building when you consider the probability of a fire, the need for disposal of damaged material, and reconstruction, according to this engineering study. For a facility exposed to extensive fire hazards, (e.g., a heavy manufacturing facility with extensive combustible materials), insufficient fire protection can increase carbon emissions by 14% over its lifetime. Natural hazards such as extreme coastal winds can increase carbon emissions by 1-2% over the lifecycle of a typical industrial building.

"UNDERADDRESSED RISKS FROM FIRES AND NATURAL HAZARDS ACTUALLY INCREASE TOTAL GREENHOUSE GAS PRODUCTION OVER A FACILITY LIFECYCLE."

- Dr. Louis Gritzo, vice president and manager of research, FM Global

As these findings indicate, sound sustainability measures require assertive risk management. In some cases, the consensus codes and standards that are seen as the "minimum requirements" to reduce these risks simply can't keep up with the pace of innovation. Hence, companies need to seek out proven standards and well-qualified design firms and installers that exercise the latest and best available proven guidance to avoid adverse surprises. Increasing sustainability doesn't have to mean sacrificing resilience.

Sustainability-related projects and what to watch

Here are some sustainability initiatives and the potentially unrecognized risks they contain:

Solar panels, most of which now use photovoltaic (PV) technology, are vulnerable to electrical fires from improper design and/or installation. Panels are often backed with combustible plastic and when positioned on rooftops, can accumulate other combustible debris between the roof and back of the panels, increasing the potential of a rooftop fire. Maintaining a clean and clear zone around and behind panels is especially important in areas prone to wildfires. Recent improvements in the National Electrical Code in the U.S. have significantly reduced solar-panel risk. Some areas of the world, including Australia, are still working to implement improved standards. If a rooftop fire does occur, firefighting a solar-panel fire is tricky because the system may stay electrically charged. Again, recent guidance and safer systems are now coming into common practice.

In addition to being a fire risk, solar panels are vulnerable to wind due both to the uplift forces that can cause damage to the panels and support structure as well as nearby projectiles carried by the wind. Ground-mounted systems are particularly vulnerable, as shown by the extensive damage to the utility-scale solar installations from Hurricane Maria in 2018.

All solar panels are vulnerable to hail damage. For locations in a hail zone, such as those shown by this U.S. hazard map, extra measures may be needed to ensure a durable PV panel and/or one that can be reliably covered or repositioned to avoid hail impact.

Green roofs that include plants, grass, and sometimes trees (also called vegetative roofs) are popular as employee spaces and expressions of a company's sustainability posture, but require special design, installation and maintenance considerations. A number of design standards are available, and weight should be the first concern. Green roofs can be heavy, especially when soil is waterlogged from hard rainfall and doesn't have time to drain or dry. Wind forces on rooftop materials, which are greater than those at ground level, also need to be considered as part of a good design to avoid damage to rooftop equipment or surrounding structures. A sound engineering review should always be performed as a first step in any project. Once in place, if not adequately maintained, desiccated plants are extremely combustible, presenting yet another fire hazard.

Insulation. In one of the most tragic cases of the past decade, the 24-story residential Grenfell Tower in London was adorned with new insulated cladding for energy efficiency and aesthetic reasons. The highly combustible cladding—and lack of automated fire sprinklers—were later blamed for the uncontrolled 2017 fire. The key to avoiding these risks is to use materials that are certified to meet flammability requirements, and/or are used in assemblies that have passed realistic fire tests as well as automatic fire sprinklers in the interior as a minimum.

"Woodscrapers." Traditionally, tall buildings are made of concrete and steel, but architects have recently begun developing a number of concepts that use compressed laminated timber. The resulting edifices are sometimes called *woodscrapers, mass timber, or tall wood*. The vulnerability of these structures to fires is still being evaluated. Large wood beams tend to char instead of burn, which may allow them to maintain a level of structural integrity. But delamination of the timbers due to poor quality glue and/or assembly can degrade their fire performance, as was seen in 2018.

Joints, including metal brackets that cause charring in depth, pose further challenges. Recently, these structures have been accepted in international building codes, with provisos to require encapsulation of exposed wood with gypsum board. These measures detract from the visual appeal of the large wood timbers that make these structures an attractive sustainability statement. Codes also wisely require automatic fire sprinklers. The combination of char damage and water damage leaves a number of open questions regarding repair and re-occupancy. If a significant part of one of these structures is damaged by fire and water, the entire sustainability benefit is lost.

Wind turbines, once smaller and clustered lower to the ground on rural ridges, now top 300 meters in height. Turbines see hundreds of cases of structure collapse annually, according to a 2018 paper. A look at four decades of collapses indicated that strong wind was the most common cause of failure, and the most severe losses were concentrated at either the early or late stages of designed service life. Although newer turbine tower and blade designs are more stable and reliable, "the chain of design, manufacturing, construction, operation and maintenance needs further enhancement and cohesion," the researchers wrote.[1] Beyond the need to design for extreme winds, wind turbines also require good lightning protection and measures to prevent ignitable liquid fires in the generator nacelle at the hub of the blade. The larger the turbines, the greater the potentially adverse impact to sustainability goals.

The extra "green" mile to make a company sustainable is moving from a "nice to have" to a "must have," yet taking modest extra measures to mitigate risk will make the benefits real. Fortunately, as insurance claims experience indicates, cost-effective and robust design, construction, and maintenance can virtually eliminate the added risks—and ensure that a company's sustainability goals meet, or exceed the expectations of the firm, its shareholders, stakeholders, and employees.

1. Wind Turbine Tower Collapse Cases: A Historical Overview

Follow Lou on LinkedIn.

NJSFPE-AFAANJ 11th Annual Symposium Attendee Registration

When
Thursday, April 7, 2022 from 7:30 AM to 4:30 PM EDT
Add to Calendar

Where
The Hanover Manor
16 Eagle Rock Ave
East Hanover, NJ 07936

Driving Directions

Dear Brad,

As with previous years we will be having our Vendor Trade showthroughout the day.

We are still finalizing our program but confirmed speakers are.....

- John Drucker - Fire Protection Sub-code Official, Borough of Red Bank, NJ
  - New Jersey's Rehabilitation Code
- Shamim Rashid-Sumar, PE, FSFPE-Vice President, Fire Codes and Standards - National Ready Mixed Concrete Association
  - Benefits and Fire Resistance Qualities of Concrete in Construction
- Michael J. Hosch-Lead Applications Engineer-Det-Tronics
  - Ultra-high-speed Optical Flame Detection and Releasing System Solutions

Raffle Prizes following the last speaker.

Please use the link belowto register or RSVP.

Get more information

Register Now!

I can't make it

If you have any questions please contact Ed Armm (see below) Vicki Serafin vicki.serafin@affiliatedfm.com (973) 541-6771; or Jim Loftus, james.loftus@siemens.com (973) 590-0048

Thank you for your attention and response, we look forward to seeing them at your event.

Sincerely,

Jim Loftus
AFAANJ & NJSFPE
james.loftus@siemens.com
973-590-0048

Code Books

Ernesto Vega-Janica, representing IEEE. has generously made their excess inventory of NFPA Standards and IEEE Engineering Guides available to our membership.

We are making them available on a first come first serve basis, they are available to New Jersey municipal fire officials and fire sub code officials.

To obtain a title, contact Paul McGrath at paul@cityfire.com or 973-560-1600 ext. 204. Items may be picked up at The Store at City Fire, 733 Ridgedale Avenue, East Hanover, NJ 07936.

Book Inventory

As Of December 8, 2020

Book Code	Doc No	Title	Format	In Stock
NFPA70a	10-Mar	NFPA 70 - Natl Elec Code (NEC), 2005 Ed	SC	0
				0
NFPA70b	70SB08	NFPA 70SB08 - Natl Elec Code Soft & Hard Set, 2008	SC	17
NFPA70c	70	NFPA 70 - Natl Elec Code (NEC), 2008 Ed	SC	29
NFPA70d	70HB08 / 70HCD08	NFPA 70HB08/70HCD08 - Natl Elec Code HB, 2008	HC	21
				0
NFPA70e	70HB11	NFPA 70HB11 - Natl Elec Code (NESC) HB, 2011	H	131
NFPA70f	70	NFPA 70 - Natl Elec Code (NEC), 2011 Ed	SC	282
				0
NFPA70g	70E	NFPA 70E - Std for Elec Safety in Workplace, 2015	SC	0
NFPA70h	70EHB15	NFPA 70EHB15 - NFPA 70E: Std for Elect	HC	85
NFPA70i		NFPA 70E: Standard for Electrical Safety in the Workplace and Handbook (Set), 2015 Edition	H	0
				0
NFPA70j	70E	NFPA 70E - Std for Elec Safety in Workplace, 2009	SC	2
				0
NFPA72a	72	NFPA 72 - Natl Fire Alarm & Signaling Code, 2016	SC	0
NFPA72b	72HB16	NFPA 72HB16 - Natl Fire Alarm & Signaling HB, 2016	HC	51
				0
				0
		IEEE SFPE Eng Guide for Assessing Flame Radiatn	H	4
		IEEE SFPE Eng Guide for Eval of Model DETACT-QS	H	12
		IEEE SFPE Eng Guide for Piloted Ignition	H	18
		IEEE SFPE Eng Guide for Pred Room of Origin Fire	H	0
		IEEE SFPE Eng Guide for Predicting Skin Burns	H	10
		IEEE SFPE Eng Guide for Substantiation of Fire	H	1
				0
				0
		SFPE - SFPE Std on Cald Methods to Predict Thermal	H	5
				0

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• Preaction Fire Sprinkler Systems - Important Guidelines

• Advanced Technology Smoke Detection

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1. Comprehend the **fundamentals** of steel corrosion.
2. Identify **causes** and types of corrosion within sprinkler piping.
3. Understand **consequences** of corrosion within sprinkler piping.
4. Offer **countermeasures** to prevent corrosion within sprinkler piping.

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1. Understand **how far** smoke detection has come.
2. Know the difference between different **smoke detection principles**.
3. Discern which smoke detection technology is the **best solution**.
4. Understand other **environmental hazards** that can be detected in specific buildings.

Course: Preaction Fire Sprinkler Systems - Important Guidelines

An in-depth look into preaction sprinklers. This course covers regulation on preaction fire sprinkler systems. This includes guidelines for the control panel, detector regulations, and other rules to follow when using preaction sprinklers. Learning objectives:

1. Understand **rules** for use of preaction sprinkler systems.
2. Comprehend proper **fire detector spacing** for preaction sprinkler systems.
3. Present various advanced **fire detection options**.
4. Learn about **sprinkler corrosion** and countermeasures.

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Meeting Dates/Programs 2021-2022

In person meetings are held at the Hanover Manor, 16 Eagle Rock Avenue, East Hanover, NJ with social hour starting at 5 pm and dinner at 6 pm.

2021-2022 SFPE Program Schedule	Presenter	Date
Virtual Board Meeting **2021 Budget Review and Approval** **(No General Chapter Meeting)**		January 10, 2022
Specialty Application Sprinklers Webinar	Sam Schwander Reliable Automatic Sprinkler Co.	February 7, 2022 12pm
FM Global Update on the Latest Warehouse Protection		March 7, 2021
Seminar		April 7, 2022
TBD		May 2, 2022
Annual Meeting **LI Ion Batteries**	Ben Ditch	Jun 13, 2022

AFM ACCOUNT ENGINEER
PARSIPPANNY, NJ

OVERVIEW

The AFM Account Engineer position is critical as you are the first point of contact for communicating with our insureds & broker partners for all engineering products and services. New York Operations has a diverse book of business including manufacturing, healthcare, warehousing, real estate, etc. You will work in a variety of occupancies while establishing yourself as a trusted adviser to our insureds & broker partners, working to protect the value of our clients' business.

On a corporate-wide basis, the AE evaluates & assesses risk to the insured's business in terms of nature, likelihood & severity, then clearly communicates that to the production underwriter, insured & broker partner. The AE prioritizes exposures, helps all parties understand the hazards & risks to the insured's business, develops cost-effective solutions & drives risk improvement. The AE works closely with the production underwriter on account renewals & prospects to ensure the growth of a profitable portfolio. Through teamwork with field engineering, production underwriters & claims, the AFM Account Engineer provides responsive service & innovative solutions that foster long-term, mutually beneficial relationships with our insureds & broker partners.

RESPONSIBILITIES

1. Accurately assess and communicate risk information to obtain a competitive advantage for AFM, our insureds and our broker partners.
2. Obtain insured client / prospect understanding and agreement on the key hazards and the total impact of the exposures.
3. Consistently achieve risk improvement with creative, cost-effective solutions from a well-developed and executed account strategy.
4. Effectively manage change through communication with insureds and broker partners.
5. Manage the insured and broker-partner engineering relationships.
6. Support new business opportunities, including conducting Prospect visits as needed.
7. Develop and manage an engineering resource plan that meets both AFM and individual insured needs.
8. Consistently communicate and demonstrate the value-added differential of AFM engineering to our insureds, prospects and broker partners.

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NJCU
Walter Nugent III, MPA
Chairperson
Department of Fire Science
New Jersey City University
2039 Kennedy Boulevard
Professional Studies, Room 440
Jersey City, NJ 07305-1597
Tel: 201-200-3407
Fax: 201-200-3408
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SFPE New Jersey

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Program / Arrangements – Vicki Serafin / Rich Reitberger

Membership – Rich Reitberger

Nominating – Mike Newman / Dave Gluckman

Auditing – Evan Fitzgerald / Vanessa Gallagher

Archivist / Historian – Vicki Serafin / Marvin Maradiaga

Communications:

- Fusible Link – Brad Hart / Lindsey Taylor / Paul McGrath
- Electronic Correspondence – Vicki Serafin
- Website – Paul McGrath / Lindsey Taylor

Bylaws – Joe Janiga / Rich Reitberger

Career Recruitment – Donna Spano

Legislative – Jerry Naylis / Mike Wilson

Chapter Seminar – Jim Loftus

SFPE International Liaison – Glenn Buser

Fire Prevention Week Grant Program – Paul McGrath / Dave Gluckman

Chapter Excellence Awards & Chapter Awards – Rich Reitberger / Vicki Serafin

NJ / NY Chapters Education Foundation – Rich Reitberger / Mike Newman

HELPFUL LINKS

ADAAG http://www.access-board.gov/adaag/about/index.htm
AFAA National http://www.afaa.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.afaanj.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