President’s Message…

I want to start this month’s article thanking all those that made our January meeting a great success; this can’t be done without a word of thanks to Russ Fleming president of NFSA who took time from his very busy schedule to come to NJ to speak to us. As always Russ drew a large group to our meeting and I wish to extend my thanks for all that came out in support. This month’s meeting will bring Speaker Jim Schwander, Territory Manager Foam Systems Tyco Fire Products to the Hanover Manor. Jim will be speaking about designing foam systems to work as well as to be in compliance with the current EPA requirements.

Our symposium is coming together very nicely and we will be sending additional information as to the speakers out shortly. We have some of the top speakers in our industry lined up with interesting, informative and topical presentations.

Today’s news about another large loss fire that raced through a crowded nightclub in southern Brazil makes me feel that we still don’t seem to learn from the past. This fire early Sunday morning set off a stampede that police and firefighters said killed at least 245 people attending a university party. The news of another deadly nightclub is unwelcome and very disturbing.

One report states that “The band that was onstage began to use flares and, suddenly, they stopped the show and pointed them upward. At that point the ceiling caught fire. It was really weak but in a matter of seconds it spread,”

- A welding accident reportedly set off a Dec. 25, 2000, fire at a club in Luoyang, China, killing 309.
- At least 194 people died at an overcrowded working-class nightclub in Buenos Aires, Argentina, in 2004. Seven members the band were sentenced to prison for setting off the blaze.
- A blaze at the Lame Horse nightclub in Perm, Russia, broke out on Dec. 5, 2009, when an indoor fireworks display ignited a plastic ceiling decorated with branches, killing 152.
- Wednesday February 20th marks the anniversary of the Station Club Fire which in 2003 killed 100 people after pyrotechnics used as a stage prop by the 1980s rock band Great White set ablaze cheap soundproofing foam on the walls and ceiling.

We must learn from history or we are forced to relive it, the cost appears to be our children. This news is distressing and makes me very sad. Do we all teach those we love to be ever mindful of life safety? To always know where the fire exits are, to not remain in places with blocked exits or where open flame is used indoors? To always avoid overcrowded venues?

Yours is safety,

Ed Amm, SET
President NJSFPE
President Ed Armm convened the meeting at 6:03 PM at the Hanover Manor, E. Hanover, NJ with a salute to the flag and the customary introductions. There were 38 attendees.

A gift card was presented to Vicki Serafin in appreciation of her efforts for the chapter.

Tom Kuhta informed the membership of the upcoming NY SFPE Chapter joint meeting with the NY Fire Safety Directors.

Joe Janiga informed the membership on the audit procedures and the chapter tax return. He also mentioned there are plans to have a copy of the tax return available for member review at an upcoming chapter meeting.

Ed Armm informed the membership about the planned presentations at the upcoming symposium.

John Stoppi of Arora Engineering informed the membership of two fire protection engineering positions currently available at his firm.

Mike Newman presented the minutes from the December 3, 2012 chapter meeting. The membership approved the minutes as published in the Fusible Link.

Glenn Buser presented the Treasurer’s Report of December, 2012. A motion to accept the report was made and approved.

There were no new membership applications since the last chapter meeting.

Russ Fleming, President of the NFSA gave a presentation on changes to NFPA - 25® and 3rd Party Inspection, Testing and Maintenance.

The meeting was adjourned at 7:55 PM.

Xcel Energy Company Hydroelectric Tunnel Fire

Location: Georgetown, CO
October 02, 2007
Accident Type: Confined Space / Asphyxiation
Company Name: Xcel Energy Inc.

INVESTIGATION INFORMATION

Accident Description

On October 2, 2007, five people were killed and three others injured when a fire erupted 1,000 feet underground in a tunnel at Xcel Energy Company’s hydroelectric power plant in Georgetown, Colorado, located approximately 45 miles west of Denver. The fatally injured workers were trapped deep underground during an operation to coat the inside of the tunnel with epoxy using highly flammable solvents. The tunnel is several thousand feet long and connects two reservoirs with electricity-generating turbines.

For the complete report and/or to see a reenactment video go to: http://www.chemsafety.gov/investigations/detail.aspx?SID=9&Type=2&pg=1&F_All=y
University of New Haven’s
Society of Fire Protection Engineers’ Student Chapter
3rd Annual Technical Seminar

Event dates:
March 27 and 28, 2013

Location:
University of New Haven (Bartels Hall Meeting Room A/B)
300 Boston Post Road
West Haven, CT 06516

Topics and Speakers:

**Wednesday, March 27, 2013 (9 AM – 4 PM - Full Day Seminar)**

*Analysis and Interpretation of Post-Incident Damages for Determination of Fire Origin*
Andrew Cox, Special Agent- Bureau of Alcohol, Tobacco, Fire Arms, and Explosives
Keith Rodenhiser, Fire Investigator - New Hampshire State Fire Marshall's Office

**Thursday, March 28, 2013**

*Expert Witness Work on Reoccupying a Tornado Ravaged High Rise Building*
Warren Bonisch, PE, CFEI – Vice President/Managing Director – Aon Fire Protection Engineering

*The Interaction Between the Fire Protection Engineer and Attorney During a Fire Investigation*
Joseph Carey, JD – Robinson & Cole, LLP
Christopher Wood, P.E., JD – Firelink

*Topic to Be Determined*
Andrew Ellison, P.E. CFEI – Senior Engineer – Exponent

*Topic to Be Determined*
Phil Crombie, P.E. – 2nd Vice President/Director Forensics Laboratory – Travelers Insurance Company

*Topic to Be Determined*
Steven Hill, P.E. – Senior Consultant – The RJA Group

*Topic to Be Determined*
Leonard Belliveau, P.E. – Office Manager/Senior Consultant – Hughes Associates

*Cause and Origin – Perspectives from a Deputy Fire Marshall*
Pete Willse, Director of Research at XL GAPS
About the Seminar

This is SFPE’s 3rd Annual UNH SFPE Student Chapter Technical Seminar here at the University. The purpose of the event is to raise awareness of the UNH Fire Protection Engineering program within the student body and within the profession, and to promote the discipline of fire protection engineering in general. This year’s seminar is based on the theme of fire and fire system related loss investigations, and we have assembled a uniquely qualified group of speakers to address this very interesting topic.

Check in on both days will begin at 8 AM, with programs commencing at 9 AM. A hot lunch will be provided both days. Check in for the Wednesday March 27 seminar is limited to the first 40 paid registrants, with priority given to speakers and program sponsors.

Single day registration (Professionals): $100.00

Two day registration (Professionals): $150.00

Student Registration: $20.00

UNH SFPE Student Registration: Free (must be registered prior to the event).

Name:_______________________________
Company:____________________________
Phone:_______________________________
E-mail:______________________________
Registration Type: ___ Two Day: ___Single Day (Wednesday): Single Day (Thursday): ___Student
Amount Enclosed:_______________________
Make Checks Payable to:

University of New Haven SFPE Student Chapter
Attention: Nelson Dunston
300 Boston Post Road
West Haven, CT 06516
JOB OPPORTUNITY

Arora Engineers, Inc. has two engineering position openings per the job descriptions below. If you have an interest please contact:

John P. Stoppi Jr., P.E. | Fire/Life Safety Department Head
Arora Engineers, Inc. | One Gateway Center, Suite 1020, Newark, NJ 07102
Tel 973.645.1880 ext. 1004 Fax 973.645.1882 Mobile 908.339.3501
Web www.aroraengineers.com

JOB DESCRIPTION

Working Title: Senior Fire Alarm Systems Designer

<table>
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<tr>
<td>Level of independent judgment:</td>
<td>High</td>
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<tr>
<td>Department:</td>
<td>Planning and Design</td>
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</table>

Overall Responsibility: Considered technical expert and company leader for fire alarm systems and technologies. Incorporates fire alarm design into buildings, structures, and facilities while considering project requirements and interfacing system technical requirements.

Essential Functions:
1. In coordination with the Fire/Life Safety Department Head, fire protection engineers, and designers, meets to discuss the project scope, schedule, phasing, staging, specific site issues, and pertinent code issues.
2. Provides technically accurate, complete construction documents to the client that adheres to all code requirements, company specifications and the engineering standards of practice.
3. Provides conceptual, working, and detailed design of fire alarm systems for new and existing facilities.
4. Reviews, evaluates, analyzes technical reports, correspondence, and proposals.
5. Ensures code compliance.
6. Develops, proposes, and supports design solutions to design and engineering problems.
7. Performs site surveys, inspections, and generates punch lists.
8. Attends internal meetings as well as client meetings and participates in a tactful, effective way.
9. Provides technical guidance, explanations, and information to other design team members.

Secondary Functions:
1. Attends professional society meetings and reports on current developments.
2. Writes technical articles for publication in magazines, journals, or books.
3. Delivers internal and external training presentations, seminars.
4. Attends training as approved by Fire/Life Safety Department Head.

Needed Skills:
1. Broad knowledge of conceptual fire alarm design as it applies to a wide variety of occupancies, structures, and facilities.
2. Detailed fire alarm design knowledge as it applies to wiring methods, system interfaces, control limitations, and methods to achieve pathway survivability.
3. Must be intimately familiar with NFPA 72, including differences between versions, recent updates, and the intent of the code.
5. Familiar with model building codes and their fire alarm requirements.
7. Generally familiar with trade concepts, engineering methods, project delivery systems, and construction technologies.
8. Proficient in AutoCAD 2008 or higher.
10. Knowledge of MS Office Suite
11. Experience preparing, editing, and reviewing fire alarm design documents, specifications, and shop drawings
12. Familiar with passive building fire protection, including fire rated construction, firestopping, fire rated doors and windows.
13. Ability to understand the fire alarm equipment of multiple manufacturers and incorporate existing equipment into renovation or expansion project
14. Ability to interact with manufacturers or vendors to determine best design solutions.
15. Experience in commissioning, inspecting and troubleshooting fire alarm systems
16. Familiar with concepts of fire alarm system programming
17. Has experience in construction inspection, developing punch lists, or construction management
18. Has general knowledge of fire protection engineering, including suppression, hazard analysis, egress, code consulting, fire dynamics, smoke management, and egress systems.
19. Candidate should be able to orally communicate complex design and technical ideas to other designers and engineers as well as people with a nontechnical background.
20. Candidate must possess excellent writing skills, capable of writing reports, letters, and facilitating effective internal and external communication.
21. Candidate should be comfortable delivering technical presentations designed to convey advanced technical ideas.

**Education/Experience Minimum:** Associates Degree in Engineering Technology, 10 years directly related to fire alarm and detection

**Required Certifications:** NICET III in Fire Alarm Systems with ability to obtain NICET IV in Fire Alarm Systems in 6 months; registered, licensed, or certified in fire alarm related technologies by a state or local authority with ability to obtain NICET IV in Fire Alarm Systems in 6 months; factory trained and certified for fire alarm system design and emergency communications system design of a specific type and brand of system or in multiple types and brands with ability to obtain NICET IV in Fire Alarm Systems in 6 months

**Preferred Certifications:** NICET Level IV certification in Fire Alarm Systems; Certified Fire Protection Specialist (CFPS); NICET Certification in Automatic Sprinkler Systems, Special Hazard Suppression Systems, or Inspection, Testing and Maintenance of Water-Based Systems.

**Professional Development:** Candidate should be active in fire protection engineering, fire alarm, trade, or other technical societies as it relates to the fire alarm field. Membership in any code or standard technical committees is also desirable. Candidate should be engaged in lifelong learning as it relates to the profession in an effort to stay current with all the technical advances, development, and changes.

**Benefits:** Full Time Position, 401k, Health, Dental, Vision, Life Insurance, Paid Time Off, Time for professional societies/meetings, paid society dues, certification costs company paid, Secondary Benefits, etc.

**Company Description**
ARORA ENGINEERS, INC. (ARORA) - MBE For more than 20 years, Arora’s solid mix of industry knowledge and expertise allows the firm to offer a broad spectrum of engineering services, including oversight, project management, and design of new and existing mechanical, electrical, plumbing, electrical aeronautical, fire protection, and IT building and airfield systems. Arora also provides construction management and facilities maintenance management. Arora’s multidisciplinary approach offers clients comprehensive, cost-effective solutions to their most challenging situations. The firm’s technical staff has both the understanding of and experience in engineering and integration to enable the successful programming, design, and implementation of specialized building systems. From the initial design process, bid services, and cost estimation to construction and ongoing facility maintenance and management, Arora’s team of professionals is equipped to address any problem, and most importantly, to find the right solution. Arora understands the critical nature of responsiveness and quality control. By coupling highly educated and experienced engineers with leading-edge engineering practices and technologies, Arora’s efforts are more streamlined and efficient. This is the perfect complement to the firm’s personal, hands-on approach.

Please browse our brochure: [http://issuu.com/aroraengineers/docs/acbfinalbrochure](http://issuu.com/aroraengineers/docs/acbfinalbrochure) or visit our website: [www.aroraengineers.com](http://www.aroraengineers.com)
JOB DESCRIPTION
Working Title: Associate Fire Protection Engineer

<table>
<thead>
<tr>
<th>FIRE/LIFE SAFETY DESIGNER</th>
<th>Status: Exempt</th>
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<tbody>
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<td>Level of needed supervision: Medium</td>
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<tr>
<td>Supervisor: Fire/Life Safety Department Head</td>
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<tr>
<td>Level of independent judgment: Medium</td>
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<tr>
<td>Department: Planning and Design</td>
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</table>

**Overall Responsibility:** Candidate will be responsible for the design, analysis, evaluation, inspection, testing, and maintenance of fire and life safety systems. Candidate should be well versed in the design of water-based suppression systems, special hazard extinguishing systems (e.g., FM-200), fire alarm and detection systems, standpipe systems, egress systems, emergency lighting systems, and fire pumps. Familiarity with ICC codes and how state and local jurisdictions adopt and amend model building codes is desired. Candidate should be familiar with NFPA 13, 14, 15, 20, 24, 25, 30, 72, 92, 101, 130, and 2001. Knowledge of fire service operations and how they interface with fire protection and fire alarm systems is helpful.

**Essential Functions:**
1. In coordination with the Fire/Life Safety Department Head, fire protection engineers, and designers, meets to discuss the project scope, schedule, phasing, staging, specific site issues, and pertinent code issues.
2. Provides technically accurate, complete construction documents to the client that adheres to all code requirements, company specifications and the engineering standards of practice.
3. Provides conceptual, working, and detailed design of fire protection, special hazard suppression, and fire alarm systems for new and existing facilities with the aid of more experienced design personnel.
4. Reviews, evaluates, analyzes technical reports, correspondence, and proposals.
5. Ensures code compliance.
6. Develops, proposes, and supports design solutions to design and engineering problems.
7. Performs site surveys, inspections, and generates punch lists.
8. Attends internal meetings as well as client meetings and participates in a tactful, effective way.
9. Seeks technical guidance, explanations, and information from other design team members.
10. Grows and progresses engineering knowledge in fire protection engineering.

**Secondary Functions:**
1. Attends professional society meetings and reports on current developments.
2. Attends training as approved by Fire/Life Safety Department Head.
3. Work on becoming a licensed professional engineer.
4. Acquire other certifications helpful to the company's work.

**Needed Skills:**
1. Has general knowledge of fire protection engineering, including suppression, hazard analysis, egress, code consulting, fire dynamics, smoke management, and egress systems as they apply to a wide variety of occupancies, structures, and facilities.
2. Knowledgeable in array of NFPA codes and standards, including, but not limited to: 13, 14, 15, 20, 24, 25, 30, 72, 92, 101, 130, and 2001
3. Familiar with model building codes and their fire protection and life safety requirements.
5. Generally familiar with trade concepts, engineering methods, project delivery systems, and construction technologies.
6. Proficient in AutoCAD 2008 or higher.
8. Knowledge of MS Office Suite
9. Experience preparing, editing, and reviewing fire alarm, automatic sprinkler, and special hazard suppression design documents, specifications, and shop drawings.
10. Familiar with passive building fire protection, including fire rated construction, firestopping, fire rated doors and windows.
11. Has experience in construction inspection, developing punch lists, or construction management
12. Candidate should be able to orally communicate complex design and technical ideas to other designers and engineers as well as people with a nontechnical background.
13. Candidate must possess excellent writing skills, capable of writing reports, letters, and facilitating effective internal and external communication.
14. Candidate should be comfortable delivering technical presentations designed to convey advanced technical ideas.
**Education/Experience Minimum:** Bachelor’s Degree in Fire Protection Engineering or Fire Protection Engineering Technology with 0-2 years experience in fire protection engineering related work OR Bachelor’s Degree in Engineering or Engineering Technology with 2-4 years experience in fire protection engineering related work

**Preferred Certifications:** Engineer in Training, NICET Certifications

**Professional Development:** Candidate should be active in fire protection engineering technical societies. Membership in any code or standard technical committees is also desirable. Candidate should be engaged in various learning and professional development activities in order to increase technical and professional knowledge in fire protection engineering.

**Benefits:** Full Time Position, 401k, Health, Dental, Vision, Life Insurance, Paid Time Off, Time for professional societies/meetings, paid society dues, certification costs company paid, Secondary Benefits, etc.

**Company Description**
ARORA ENGINEERS, INC. (ARORA) - MBE For more than 20 years, Arora’s solid mix of industry knowledge and expertise allows the firm to offer a broad spectrum of engineering services, including oversight, project management, and design of new and existing mechanical, electrical, plumbing, electrical aeronautical, fire protection, and IT building and airfield systems. Arora also provides construction management and facilities maintenance management. From the initial design process, bid services, and cost estimation to construction and ongoing facility maintenance and management, Arora’s team of professionals is equipped to address any problem, and most importantly, to find the right solution. Arora understands the critical nature of responsiveness and quality control. By coupling highly educated and experienced engineers with leading-edge engineering practices and technologies, Arora’s efforts are more streamlined and efficient. This is the perfect complement to the firm’s personal, hands-on approach.

Please browse our brochure: [http://issuu.com/aroraengineers/docs/acbfinalbrochure](http://issuu.com/aroraengineers/docs/acbfinalbrochure)

or visit our website: [www.aroraengineers.com](http://www.aroraengineers.com)
Fire Protection Engineer job opening at AEGIS Engineering

Company: AEGIS Engineering  
Location: Mukilteo, WA

Description:  
AEGIS Engineering is a small full-service firm located near Seattle. We provide fire safety systems design, building code consulting and performance-based design services throughout the western US.

The ideally qualified candidate will have:

Credentials and Experience  
• EIT/FE certification or PE license  
• Minimum 2+ years experience as fire protection designer / consultant

Personal Qualities  
• Strong interpersonal skills  
• Ability to lead by example  
• Personal integrity  
• Initiative

Responsibilities  
• Report writing  
• Drawing review  
• Computer modeling  
• CAD Drafting

Competencies  
• Proven ability to interpret and apply IBC fire protection and life safety code provisions  
• Strong written and verbal communication skills  
• Strong problem analysis and solving skills

How to Apply  
• Send to the e-mail address below  
• Subject: FPE - [your name]  
• Include a cover letter describing how you are particularly qualified to support our growing team  
• Attach your résumé

On the web at www.AEGISengineering.com

To Apply:  
1359955-aegise@jobcoin.com
DON’T MISS THIS EVENT!

The Greater Atlanta Chapter of the Society of Fire Protection Engineers (SFPE) announces an outstanding opportunity for professional development and industry networking.

KEYNOTE SPEAKER:

Chief Ronny J. Coleman,
Former California State Fire Marshal
President, Fireforceone

HIGHLIGHTS:

- Exhibitor Showcase March 12 and 13 featuring important products and services
- Cutting edge technology exhibits
- Meet industry specialists
- Three days of 1-day and 2-day professional seminars showcasing leading fire and life safety topics
- More than 40 outstanding speakers featuring industry leaders with unique expertise, insight, and technical knowledge, who are on the forefront of fire and life safety issues
- NICET hours/credits
- FFSTC Approved Courses
- Professional Development Hours
- Completion certificates issued

NETWORKING OPPORTUNITIES:

Join your colleagues and visit with speakers at the Sponsored Welcome Reception on March 12th at 4:30pm with free appetizers and cash bar.

SESSION TOPICS:


WHO SHOULD ATTEND?

Engineers, Architects, Contractors, Insurance Professionals, Risk Managers, Fire Inspectors, Designers, Fire Chiefs, Loss Prevention, Building and Fire Officials

Register online starting in January at www.sfpeatlanta.org
### Program Schedule

**MONDAY 3/11 & TUESDAY 3/12 (FROM 8:30AM - 4:30PM)**

<table>
<thead>
<tr>
<th>Seminar</th>
<th>Topic</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fire and Explosion Modeling Using Phased (FDx) and Pathfinder</td>
<td>Erin Olson, Thielhard Engineering Consultant, Inc.</td>
</tr>
<tr>
<td>2</td>
<td>Principles of Fire Protection Engineering (Part II)</td>
<td>Tim Wills, Ph.D., P.E., Professor and Chair, University of Maryland, Dept. of Fire Protection Engineering</td>
</tr>
<tr>
<td>2a (Monday Only)</td>
<td>Impact of Changes to NFPA 13 &amp; 30, 2013 Edition</td>
<td>Ken Atanas, P.E., RFSF, Vice President, Engineering, National Fire Protection Association</td>
</tr>
<tr>
<td>3</td>
<td>Design, Selection, Installation, and Testing of Fire Pumps</td>
<td>John Gruka, P.E., NFPA President</td>
</tr>
<tr>
<td>4</td>
<td>Managing Combustible Dust Hazards</td>
<td>Samuel M. Bean, III, E.I., NFPA Board Member</td>
</tr>
<tr>
<td>5</td>
<td>Fire Alarm Acceptance, Inspection, Testing, and Maintenance</td>
<td>Art Block, Principal, Certified Fire Protection Engineer</td>
</tr>
<tr>
<td>6</td>
<td>Symposium of Selected Emerging Fire Protection Technologies</td>
<td>John A. Bock, P.E., CFSI, Senior Vice President, National Fire Protection Association, Global Asset Protection Services, LLC</td>
</tr>
<tr>
<td>7</td>
<td>How to Study for the Fire Protection Engineering FE Exam</td>
<td>John A. Bock, P.E., CFSI, Senior Vice President, National Fire Protection Association, Global Asset Protection Services, LLC</td>
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</table>

**TUESDAY 3/13 (FROM 8:30AM - 4:30PM)**

<table>
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<th>Seminar</th>
<th>Topic</th>
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<tbody>
<tr>
<td>8</td>
<td>Safety Engineer</td>
<td>John W. Bock, P.E., CFSI, Senior Vice President, National Fire Protection Association, Global Asset Protection Services, LLC</td>
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**Exhibitor Showcase Begins**

**Wednesday 3/13 AM (Session 1: 8:30 - 9:45AM, Session 2: 10:15 - 11:30AM)**

<table>
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<tr>
<th>Session 1A</th>
<th>Fuels, Cell and Battery Fire and Explosion Hazards</th>
<th>Robert Laksh, Ph.D., Fire Protection Engineer, NC State University</th>
<th>William J. Hager, P.E., NFPA President</th>
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</thead>
<tbody>
<tr>
<td>Session 1B</td>
<td>NFPA 12-20: Answers to Industry Leading Questions</td>
<td>Ken Atanas, P.E., RFSF, Vice President, Engineering, National Fire Protection Association</td>
<td>John Gruka, P.E., NFPA President</td>
</tr>
<tr>
<td>Session 1C</td>
<td>Understanding the Joint Commission Life Safety Chapter</td>
<td>Larry Blithe, CFSI, Vice President, Mid-Atlantic Region, TSG Consulting, Inc.</td>
<td>Art Block, Principal, Certified Fire Protection Engineer</td>
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<tr>
<td>Session 1D</td>
<td>Important Changes to the National Fire Alarm Code, 2013 Edition</td>
<td>Art Block, Principal, Certified Fire Protection Engineer</td>
<td>John A. Bock, P.E., CFSI, Senior Vice President, National Fire Protection Association, Global Asset Protection Services, LLC</td>
</tr>
<tr>
<td>Session 1E</td>
<td>Assessment of Existing Fire Protection Features</td>
<td>John W. Bock, P.E., CFSI, Senior Vice President, National Fire Protection Association, Global Asset Protection Services, LLC</td>
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<tr>
<td>Session 1F</td>
<td>Fire Protection: Challenges of Student Housing</td>
<td>Robert Bock, President, Thielhard Engineering Consultant, Inc.</td>
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</table>

**Lunch and Keynote Speaker: Chief Ronny J. Coleman – Former California State Fire Marshal, President, Fireource**

**Wednesday 3/13 PM (Session 3: 1:45 - 3:00PM, Session 4: 3:30 - 4:45PM)**

| Session 3A | Smoke and Heat Venting: Fact, Fiction, and Future | Carl Rudnitsky, Ph.D., NFPA Executive Vice President, NFPA Engineering Institute, NFPA |
|------------|---------------------------------------------------|---------------------------------------------------------|----------------------------------|
| Session 3B | Continued Evolution of Clean Agent Systems | Jeff Harrington, P.E., NFPA President, TSG Consulting, Inc. | Art Block, Principal, Certified Fire Protection Engineer |
| Session 3C | Significant Changes to NFPA 25, 2014 Edition | Ken Atanas, P.E., RFSF, Vice President, Engineering, National Fire Protection Association |
| Session 3D | The Modeling of Material Behavior in Fires | John W. Bock, P.E., CFSI, Senior Vice President, National Fire Protection Association, Global Asset Protection Services, LLC |
| Session 3E | Velocity or Dilution, Detection Challenges in High Airflow Environments | David Gruka, Ph.D., LEED AP, Principal Engineer, Bentall Kennedy, Chief Fire Engineer |
| Session 3F | Seismic Requirements for Fire Sprinkler Systems | David Gruka, Ph.D., LEED AP, Principal Engineer, Bentall Kennedy, Chief Fire Engineer |

**Program Offerings and Times Subject to Change and/or Cancellation**
PRE-CONFERENCE SEMINARS
MARCH 11 & MARCH 12

<table>
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<tr>
<th>Attendee*</th>
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<tr>
<td>Mon-Tue (Seminars 1-2)</td>
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<tr>
<td>Mon-Tue (Seminars 3A &amp; B)</td>
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<td>Mon/Tue (Seminar 3A or B)</td>
<td>$249</td>
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<tr>
<td>Tue (Seminars 4-7)</td>
<td>$249</td>
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<tr>
<td>Tue (Seminar 8 PE Exam Prep)</td>
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CONFERENCE ONLY MARCH 13

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<tr>
<td>Wed (Sessions 1-4)</td>
<td>$249</td>
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PRE-CONFERENCE SEMINARS & CONFERENCE COMBINATION PRICES

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<tr>
<td>Tue (Seminars 4-7) &amp; Wed</td>
<td>$449</td>
</tr>
<tr>
<td>Tue (Seminar 8 Exam Prep) &amp; Wed (Free!)</td>
<td>$599</td>
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</table>

CONFERENCE PROGRAM ADVERTISING

- Back Cover: $750
- Full Page: $500
- (6.25 x 9.25 with bleed, 6 x 9 trim size, 5 x 8 live area)
- Half Page: $250
- (5.64 x 4.26 with bleed 5 x 4 trim size, 4 x 3 live area)
- Business Card: $100
- (3.5 x 2 with bleed, 3 x 2 trim size, 2 x 1 live area)

Advertising Deadline - March 1, 2013
Files submitted should be high-res PDF.
Email ads to Stacy@accentcreativegroup.com
For additional advertising details, please visit www.sfpeatlanta.org

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* Pre-registration by 3/1 required for Pre-Conference Seminars.
** Public fire and building officials only. Current approved identification required.

Prices valid until March 1, 2013
Flammable and combustible liquid storage tanks located aboveground are susceptible to exposure fires, including pool fires where the tank’s own contents may have leaked, ignited and expose the tank to flames and heat. When the tank is heated, the vapors inside expand and can create dangerous pressures that must be relieved before the tank suffers a catastrophic failure. An aboveground tank is one that is installed above grade, at grade, or below grade without backfill, leaving its exterior surfaces exposed to the atmosphere. In 1959, five Kansas City, Missouri, fire fighters were killed when inadequately vented tanks failed and they were caught in the resulting fireball. Forty-one years later, an Iowa fire fighter was killed when a brush fire ignited vapors. In 2007, another tank failure in Valley Center, Kansas, resulted in 11 civilians and one fire fighter requiring medical treatment. Aboveground storage tanks remain a threat to fire fighters and civilians today.

The calculation procedure to properly size emergency tank venting is complicated. Code officials should work with qualified professionals to determine that emergency venting standards are in compliance with safety requirements, particularly those outlined in NFPA 30, Flammable and Combustible Liquids Code. Nearly all aboveground liquid storage tanks require some means of emergency venting, and if an identifiable venting device can’t be found during an inspection or plan review, ask the designer/owner to provide information indicating how venting will be accomplished.

The next few Coffee Break Training items will summarize many of the factors that influence venting requirements for aboveground flammable and combustible liquid storage tanks. Remember always to employ competent professionals and sound engineering judgment when enforcing code requirements.

<table>
<thead>
<tr>
<th>Tank Description</th>
<th>Operating Design Pressure</th>
<th>psig**</th>
<th>kPa</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atmospheric</td>
<td>0 to 1.0</td>
<td>0 to 6.9</td>
<td></td>
</tr>
<tr>
<td>Low pressure</td>
<td>1.0 to 15</td>
<td>6.9 to 103</td>
<td></td>
</tr>
<tr>
<td>Pressure vessel</td>
<td>&gt;15</td>
<td>&gt;103</td>
<td></td>
</tr>
</tbody>
</table>

**psig refers to gauge pressure

*Underground tanks don’t require emergency vents since they are not subject to exposure fires. Inspectors should be wary of aboveground tanks that don’t have emergency vents: often resulting from someone pulling an underground tank and reusing it aboveground.
Aboveground flammable and combustible liquid tanks are produced in a variety of shapes. Tanks are permitted to be of any shape, size or type consistent with sound engineering practices. They do not have to be listed by an independent testing agency. (See Coffee Break Training FP-2010-21 for a description of “listed” products.)

The most common shapes of steel tanks are cylindrical horizontal, cylindrical vertical and rectangular. Cylindrical horizontal tanks lie on their sides in steel or concrete saddles. Cylindrical horizontal tanks offer some portability, significant capacity and with a double-walled tank meet secondary containment requirements.

Cylindrical vertical tanks have the largest capacity for the required footprint, but they may require extensive external secondary containment site preparation. This includes drainage, to direct liquids away from tanks, or diking (called “bunding” in Europe), to capture spilled liquids.

Rectangular tanks have the most efficient use of space for space-restrictive applications, but they are limited in capacity. Typical applications for this style of tank are in vehicle service or industrial-type applications where space is most often the issue.

<table>
<thead>
<tr>
<th>Tank Shape/Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cone roof</td>
<td>This tank has vertical sides and is equipped with a fixed, cone-shaped roof that is welded to its sides.</td>
</tr>
<tr>
<td>Open top-floating roof</td>
<td>This tank is similar to the cone roof tank in construction but has no fixed roof. A pontoon-type roof floats directly on the liquid surface.</td>
</tr>
<tr>
<td>Internal floating roof/ Covered floating roof</td>
<td>This tank is a combination of both the cone roof and the open top-floating roof tank. It has a cone roof but with the addition of an internal floating roof or pan that floats directly on the fuel surface.</td>
</tr>
<tr>
<td>Horizontal</td>
<td>This tank is commonly cylindrical in shape with flat ends. It is usually mounted on legs or steel or concrete support structures.</td>
</tr>
<tr>
<td>Spherical or spheroid</td>
<td>This tank is commonly used as a pressure tank or pressure vessel where vapor capture is important, especially with high vapor pressure liquids such as methyl chloride, propane or butane.</td>
</tr>
<tr>
<td>Rectangular</td>
<td>This tank is a six-sided vessel with sides, top and bottom consisting of flat planes.</td>
</tr>
</tbody>
</table>

For additional information, refer to National Fire Protection Association 30, Flammable and Combustible Liquids Code.
MEETING NOTICE

Date: February 4, 2013

Place: Hanover Manor
16 Eagle Rock Avenue
East Hanover, NJ 07936

Price: $30.00

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

Topic: Designing of Foam systems and the challenges that go along with making these systems work

Speaker: Speaker: Jim Schwander, Territory Manager Foam Systems - East and Central Regions USA, Tyco Fire Protection Products

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
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400 Interpace Parkway, Bldg C - 3rd Floor
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### Meeting Dates/Programs 2012-2013

<table>
<thead>
<tr>
<th>Date</th>
<th>Event Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feb. 4</td>
<td>Designing of Foam systems and the challenges that go along with making these systems work—Speaker: Jim Schwander, Territory Manager Foam Systems - East and Central Regions USA, Tyco Fire Protection Products</td>
</tr>
<tr>
<td>April 26</td>
<td>Chapter Annual Spring Seminar- Newark, NJ</td>
</tr>
<tr>
<td>May 6</td>
<td>Reliable Valve Trailer and NJFSAB Fire Sprinkler Burn Trailer—Speaker: Tom Fields</td>
</tr>
<tr>
<td>June 3</td>
<td>Chemical Safety Board speaker on Large Loss Causes and Lessons Learned ANNUAL MEETING—Officer &amp; Director Elections</td>
</tr>
<tr>
<td>June 17</td>
<td>Scholarship golf outing at West Point</td>
</tr>
</tbody>
</table>
### STANDING COMMITTEES

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- Consulting: Rich Reitberger
- Paul McGrath

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**Golf Outing**
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### 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]
- **FM Global** [http://www.fmglobal.com/]
- **FSDANY** [http://www.fsdayny.org/reps.htm]
- **FSI** [http://www.firesprinklerinitiative.org/]
- **FSSA** [http://www.fssa.net/]
- **Fire Tech Productions—Nicet Training (FTP)** [http://www.firetechcom/]
- **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/]
- **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]

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