



# SFPE

*Engineering A Fire Safe World*

SFPE – Society of Fire Protection Engineers

SFPE Italy – Italian Chapter

*30 novembre 2020*

## SFPE – La Storia

- La Society viene fondata a Boston nel 1950 come emanazione della NFPA
- Nel 1971 si stacca dall'NFPA e diventa una organizzazione indipendente di tipo Non – Profit.
- Stabilisce il proprio Headquarters in Gaithersburg, MD (appena fuori Washington, DC)
- Ha un annual operating budget di \$2.5 million
- Conta 9 full-time staff





## SFPE Mission

To define, develop, and advance the use of engineering **best practices**; expand the scientific and **technical knowledge** base; and **educate** the global fire safety community to reduce fire risk.

*Definire, sviluppare e far progredire l'uso della miglio pratica d'ingegnera nella protezione contro l'incendio, espandere le conoscenze scientifiche e tecniche di base ed "educare" la comunità globale della sicurezza antincendio al contenimento del rischio.*

## SFPE Vision

The leaders in engineering a fire safe world.



# 2019 Board of Directors

## Officers

- President: Brian Meacham – Meacham Ass.
- President-Elect: Mike Crowley – Jensen Hughes
- Sec/Treasurer: Jack Poole – Poole Fire Prot.
- Past President: J.C. Harrington – FM Global
- Ex-Officio: Nicole Boston – SFPE Staff

## Directors

- Dan Arnold
- John Campbell
- Wan-Ki Chow
- Jimmy Jonsson - Spain
- Amanda Kimball
- Bob Libby
- Anthony Militello
- Armelle Muller - France
- Beth Tubbs

# Membership

- 4,627 total members
- 4,234 paying members; 393 non-paying members
- 25% of the members are based outside of U.S.
  - 3,157 within U.S.
  - 1,077 outside the U.S.

# Students and Early Career Professionals

21 student chapters  
388 student members



# 101 Chapters Worldwide

47 U.S.  
21 Student  
12 in Europe  
5 in Canada  
3 in Middle East  
12 in Asia-Oceania  
1 in Latin America





# SFPE Europe

- A partire dal 2015 SFPE ha avuto uno specific interesse per l'espansione in Europa.
- Con il 2020 SFPE Europe è stata costituita ufficialmente come associazione non-profit europea, con sede a Bruxelles.
- Si organizzano Eventi Europei
- si è costituita un'alleanza europea per lo sviluppo
- Il no. di membri è cresciuto
- il no. di chapters è cresciuto
- Si sono creati gruppi di lavoro tecnici specifici



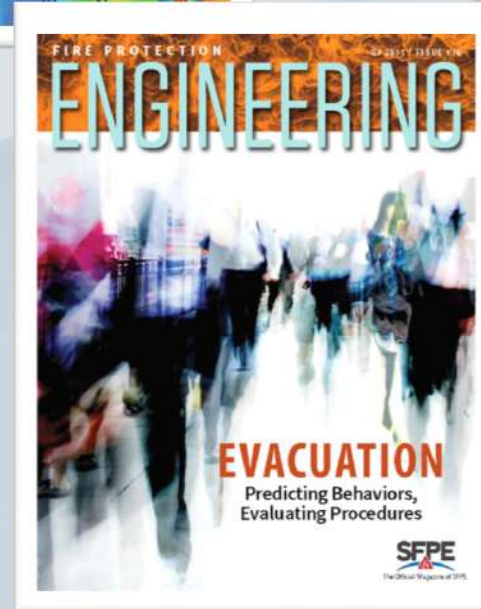
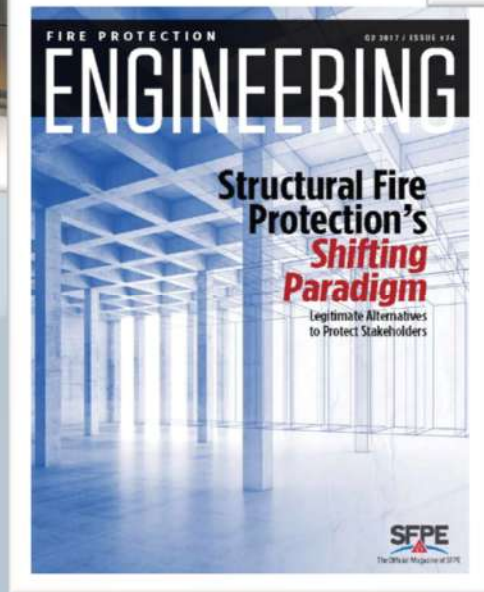
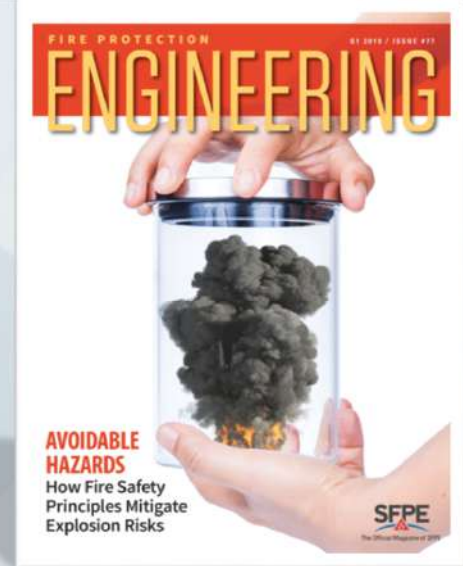
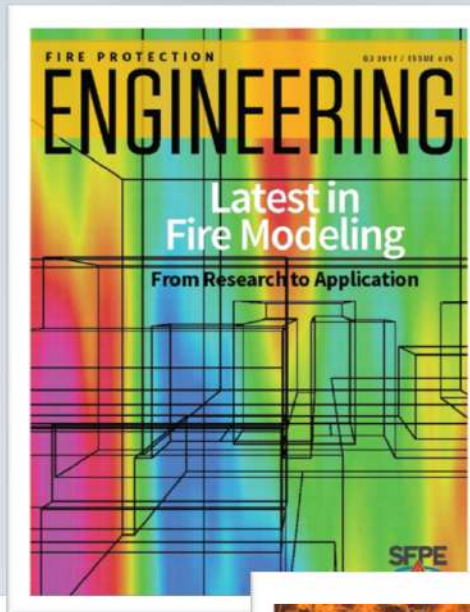
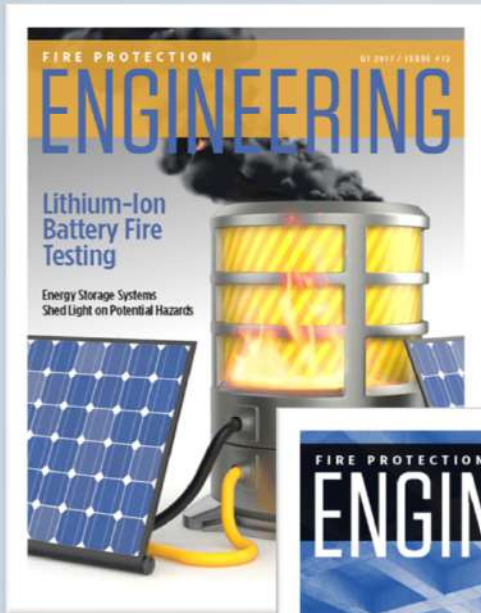
# Organizzazioni Europee con cui si collabora

- Fire Safe Europe
- European Association for Fire Protection
- FIEP -
- Eurosprinkler – EFSN European Fire Sprinkler Network
- IWMA (Water Mist): International Water Mist Association
- CFPA – Confederazione delle FPA (Fire Protection Association) Europee
- CEN – European Commission a livello Normativo e più in generale politico.

# L'attività di SFPE e le pubblicazioni

- L'attività principale dell'associazione è quella di sviluppare il ruolo professionale del «Fire Protection Engineer»
- Nel Stati Uniti la SFPE gestisce addirittura i programmi di esame per la qualifica di «Registered Professional Engineer» nel settore Fire
- Per gli associati fuori dagli Stati Uniti, oltre alle attività culturali in genere, particolare importanza hanno le pubblicazioni che l'SFPE promuove e pubblica;
- Nel seguito un breve excursus di queste pubblicazioni...

# FPE Magazine



# E-News

**FPE** **eXTRA** **SFPE**

DEL EDITOR DE FIRE PROTECTION ENGINEERING MAGAZINE

**FPE** **eXTRA** **SFPE**

FROM THE PUBLISHER OF FIRE PROTECTION ENGINEERING MAGAZINE

**SFPE EUROPE**

Q1 2015 | ISSUE NO. 1

AN OFFICIAL PUBLICATION OF SFPE

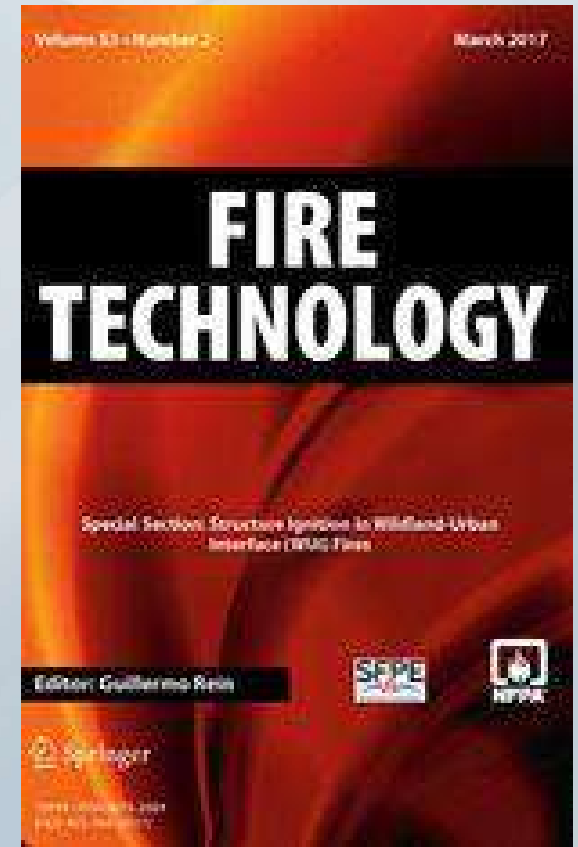
**SFP@UPDATE** **SFPE**

A MONTHLY UPDATE ON THE LATEST SFPE NEWS AND RESOURCES



# Fire Technology Journal

- Guillermo Rein, editor-in-chief
- Published by Springer
- Available digital (members get this for free) and print
- 6X month



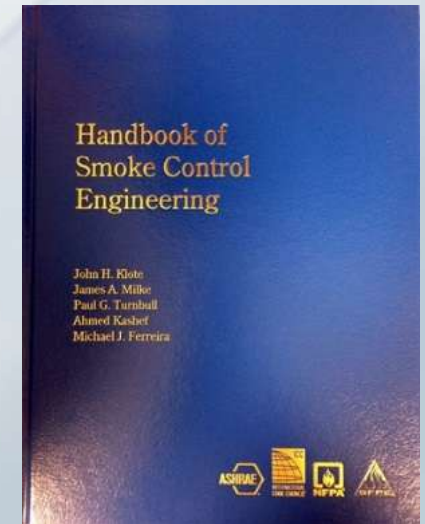
# SFPE Handbook of Fire Protection Engineering

- The definitive reference on fire protection engineering, now expanded to three volumes
- Available in electronic format for the first time
- Work is started on 6<sup>th</sup> edition
- Subcommittee completed recommendations for 6<sup>th</sup> edition & guiding principles document
- Peer review of 5<sup>th</sup> edition starting Soon
- Finalizing Editorial Board
- Vision & Guiding Principles Document Completed



# Handbook of Smoke Control Engineering

- Smoke control technology, including fundamental concepts, smoke control systems, and methods of analysis
- Information needed for the analysis of design fires, including considerations of sprinklers, shielded fires, and transient fuels.
- Systems discussed in the handbook include those for stairwell pressurization, elevator pressurization, zoned smoke control, and atrium smoke control.
- This is the first smoke control book with climatic data so that users have easy-to-use weather data specifically for smoke control design.





# Standards

- **Structural Fire Protection Engineering**
  - ✓ Standard S.01 -- Standard on Calculating Fire Exposures to Structures (under revision)
  - ✓ Standard S.02 -- Calculation Methods to Predict the Thermal Performance of Structural and Fire Resistive Assemblies

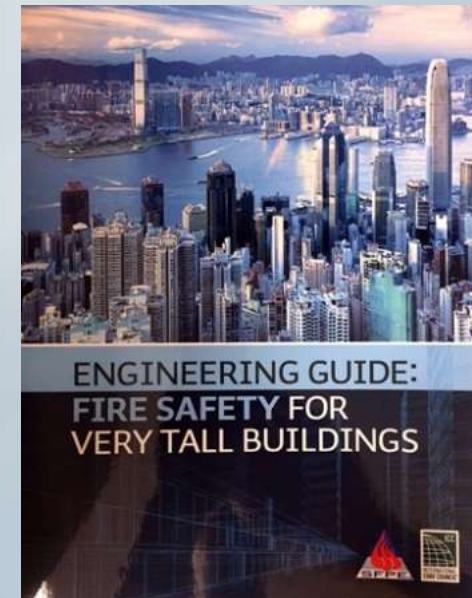


# Engineering Guide: Fire Safety for Very Tall Buildings

Task Group is currently revising this document

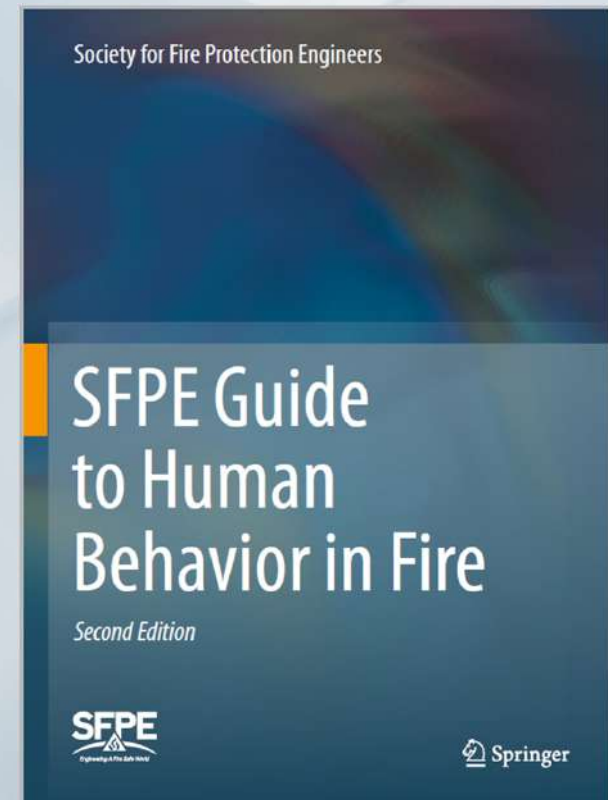
Addresses the complex fire protection challenges of very tall buildings and provides information on the following topics:

- ✓ Facades
- ✓ Detection and alarm
- ✓ First responder issues
- ✓ Buildings under construction
- ✓ Commissioning
- ✓ Components of performance-based design
- ✓ Unique features of tall buildings
- ✓ Integration of building systems
- ✓ Fire Service
- ✓ Fire resistance
- ✓ Suppression
- ✓ Smoke control



# Guide to Human Behavior in Fire (2<sup>nd</sup> Edition)

- Published by Springer in 2018
- Available in electronic & print
- New content related to:
  - Incapacitating effects of fire effluent & toxicity analysis methods
  - Occupant behavioral scenarios
  - Movement models and behavioral models
  - Egress model selection, verification, and validation
  - Estimation of uncertainty and use of safety factors
  - Enhancing human response to emergency notification and messaging



# Guides and Books

- Performance-Based Design

- ✓ Guide to Performance-Based Fire Protection

- ✓ Next version to be a ANSI standard

- ✓ Starting the process to recruit committee in March 2019

- ✓ Performance-Based Fire Safety Design

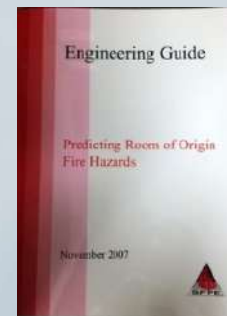
- ✓ Code Officials Guide to Performance-Based Design Review



## Guides (continued)

- Fire Development

- ✓ Guide to Piloted Ignition of Solid Materials Under Radiant Exposure
- ✓ Engineering Guide to Assessing Flame Radiation to External Targets from Pool Fires
- ✓ Guide to Predicting Room of Origin Fire Hazards
- ✓ Engineering Guide to Predicting 1st and 2nd Degree Skin Burns



## Guides (continued)

- Other

- ✓ Guidelines for Peer Review in the Fire Protection Design Process (under revision)
- ✓ Guidelines for Substantiating a Fire Model for a Given Application
- ✓ Guide to Fire Risk Assessment (under revision)
- ✓ Human Behavior in Fire (under revision)
- ✓ Design Fire Scenarios - focuses on life-safety (under revision)



# Professional Qualifications

Douglas Fisher, CPQ Chair

Victoria Valentine, Staff Liaison

## Obiettivo Strategico #2: Sostenere la professione

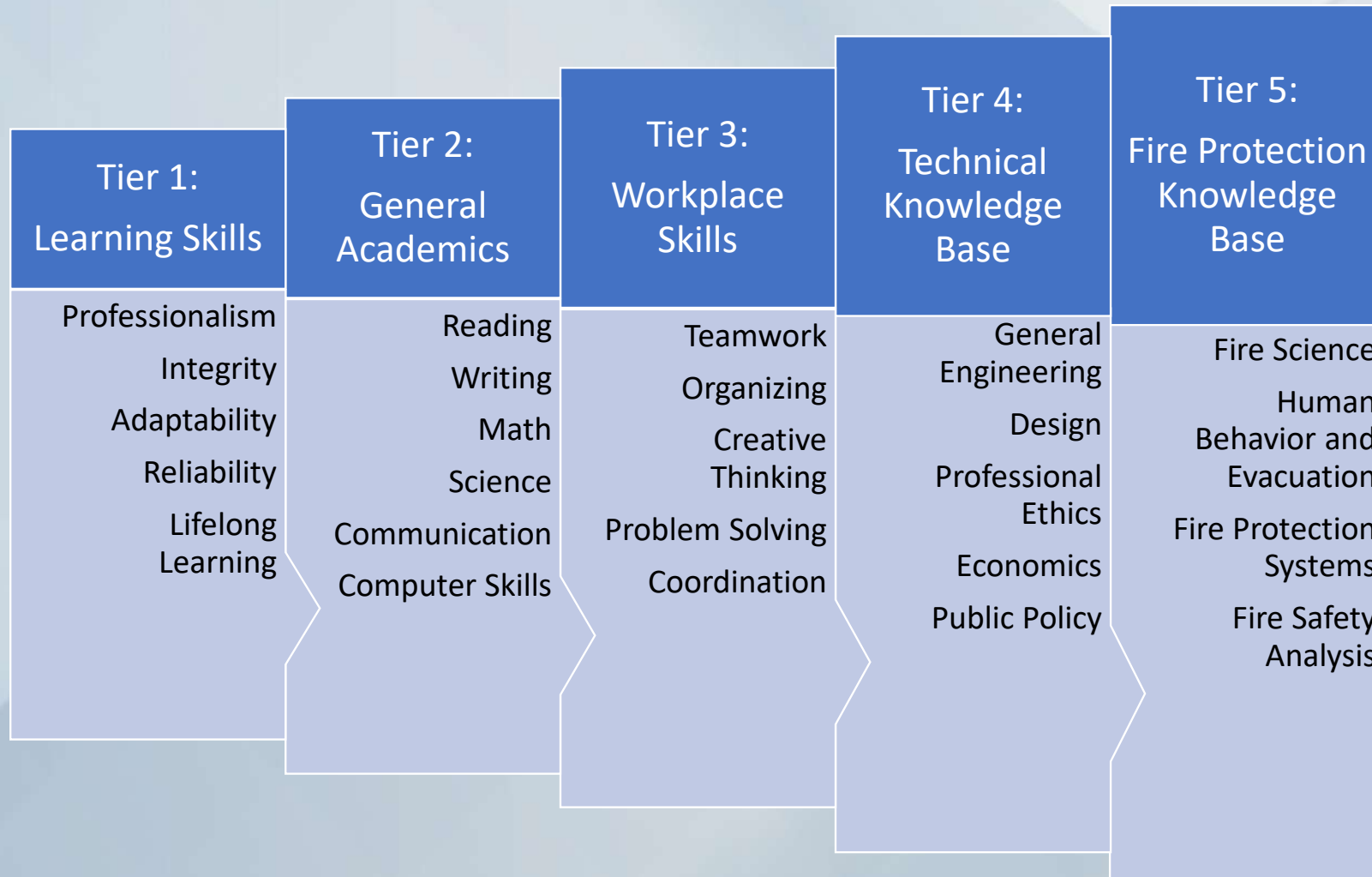
- Far sì che le competenze minime di base e le responsabilità siano riconosciute dai principali stakeholders.
- Continuare a sostenere la professione pubblicamente riconosciuta negli Stati Uniti.
- Collaborare con altre organizzazioni fuori dagli Stati Uniti per promuovere il riconoscimento professionale del Fire Protection engineer.
- Essere una risorsa continua ed un sostegno per la formazione di laureati nel settore della Fire <protection Engineering.
- Aumentare costantemente il riconoscimento della SFPE come la fonte più autorevole di informazioni per i Fire Protection Engineers.



# SFPE Minimum Core Competencies

- A questo scopo la più importante iniziativa che è stata intrapresa due anni fa è stata la pubblicazione di un documento disponibile a tutti sulle cosiddette “Core Competencies” intese come le conoscenze minime che un Fire Protection Engineer deve possedere per l’esercizio di questa professione.
- Queste competenze si conseguono alla fine di un percorso educativo, purtroppo ancora non disponibile nel nostro paese, nel quale lo studente acquisisce le conoscenze specifiche del settore e svolge esperienze significative.

# SFPE Minimum Core Competencies (continued)



# Continuing Professional Development

Mark Fessenden, CPD Chair

Louis Guerrazzi, Staff Liaison

## Obiettivo Strategico #3 – Informare - Educare

- L'SFPE è impegnata a svolgere un ruolo continuo per la formazione dei nuovi FPE e per l'aggiornamento continuo dei FPE già in esercizio.
- Per fare questo si sviluppa una serie di iniziative che vanno dai Webinars ai Convegni, dalle Conferenze internazionali alla pubblicazione di "paper" specifici sempre volti alla migliore informazione degli addetti ai lavori nell'assoluto rigore scientifico delle informazioni fornite.

# SFPE Webinar Series

## In 2017:

- 4,108 participants watched 15 live webinars
- 1,534 participants watched 16 recorded webinars
- 146 people participated in 13 live technical courses...AND
- 134 people participated in 9 live technical courses in Latin America

## In 2018:

- 4,727 participants watched 19 live webinars
- 1,561 participants watched 19 recorded webinars
- 113 people participated in 9 live technical courses



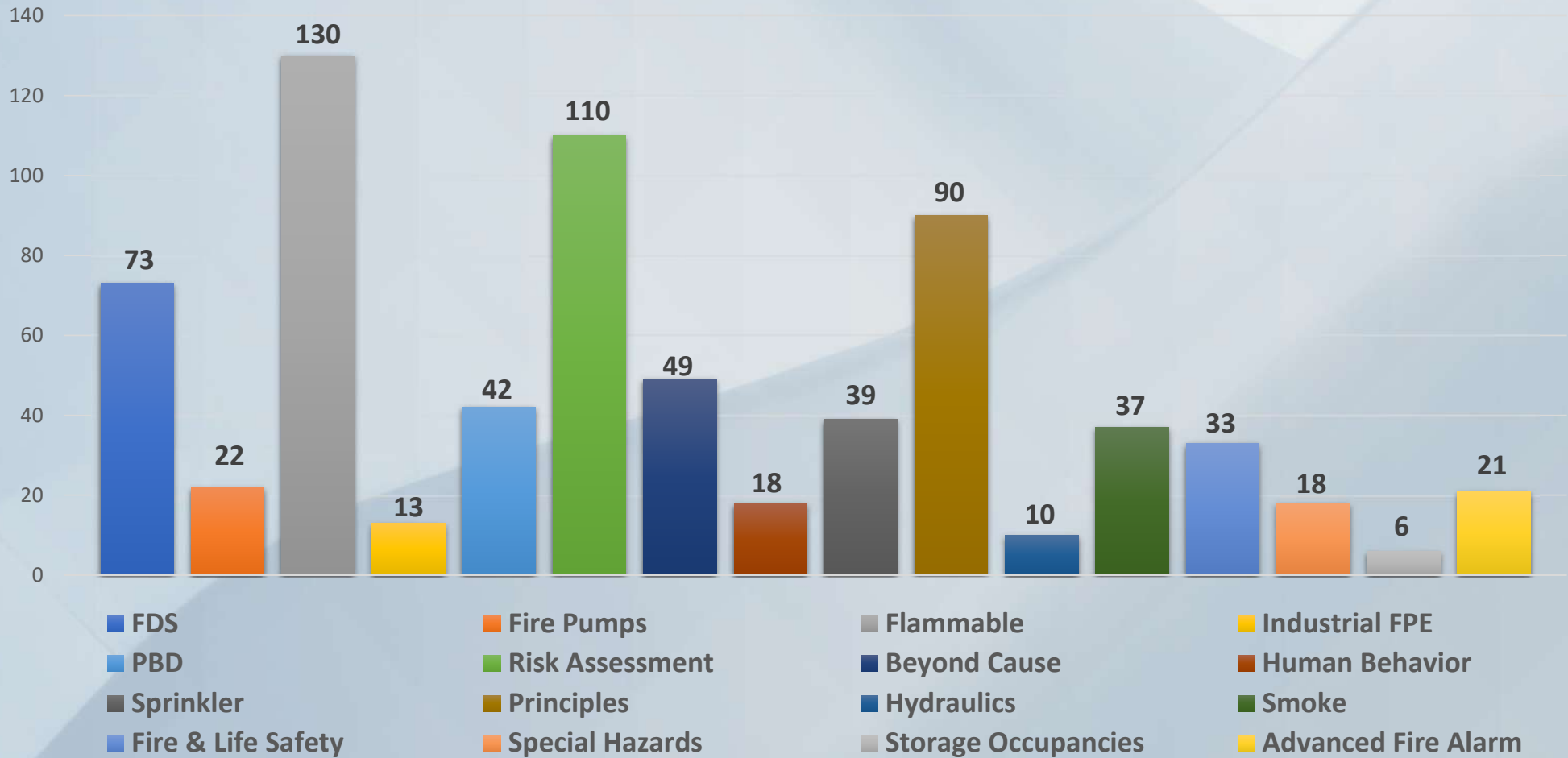
WEBINAR SERIES

LISTEN. LEARN. LEAD.



Coming Soon

# Seminar Summary 2015-2018



# Global Conferences

- Annual – every year
  - Phoenix, 2019
  - Atlanta, 2020
  - Vancouver, 2021
- Europe – bi-annually (odd years)
  - Malaga Spain, May 2019
- Performance-Based Codes and Fire Safety Design Methods – bi-annually (even years)
  - Auckland, New Zealand, March 2020

# Atlanta, Georgia 2020



  
**SAVE THE DATE**

 **SFPE20**  
**Annual  
Conference & Expo**  
Atlanta, Georgia  
Conference: Oct 25-27  
Seminars: Oct 27-30

**Join us in Atlanta**

Join over 450 fire protection engineer professionals from around the globe, earn your required professional development hours (PDH), and see all the latest industry technology and services conveniently under one roof. There is no more cost-effective way to advance your learning and your career.



# Auckland – Coming March 2020

- Chairs:
  - Peter Senez
  - Martin Feeney
  - IJsbrand van Straalen
- Dates: March 11-13, 2020

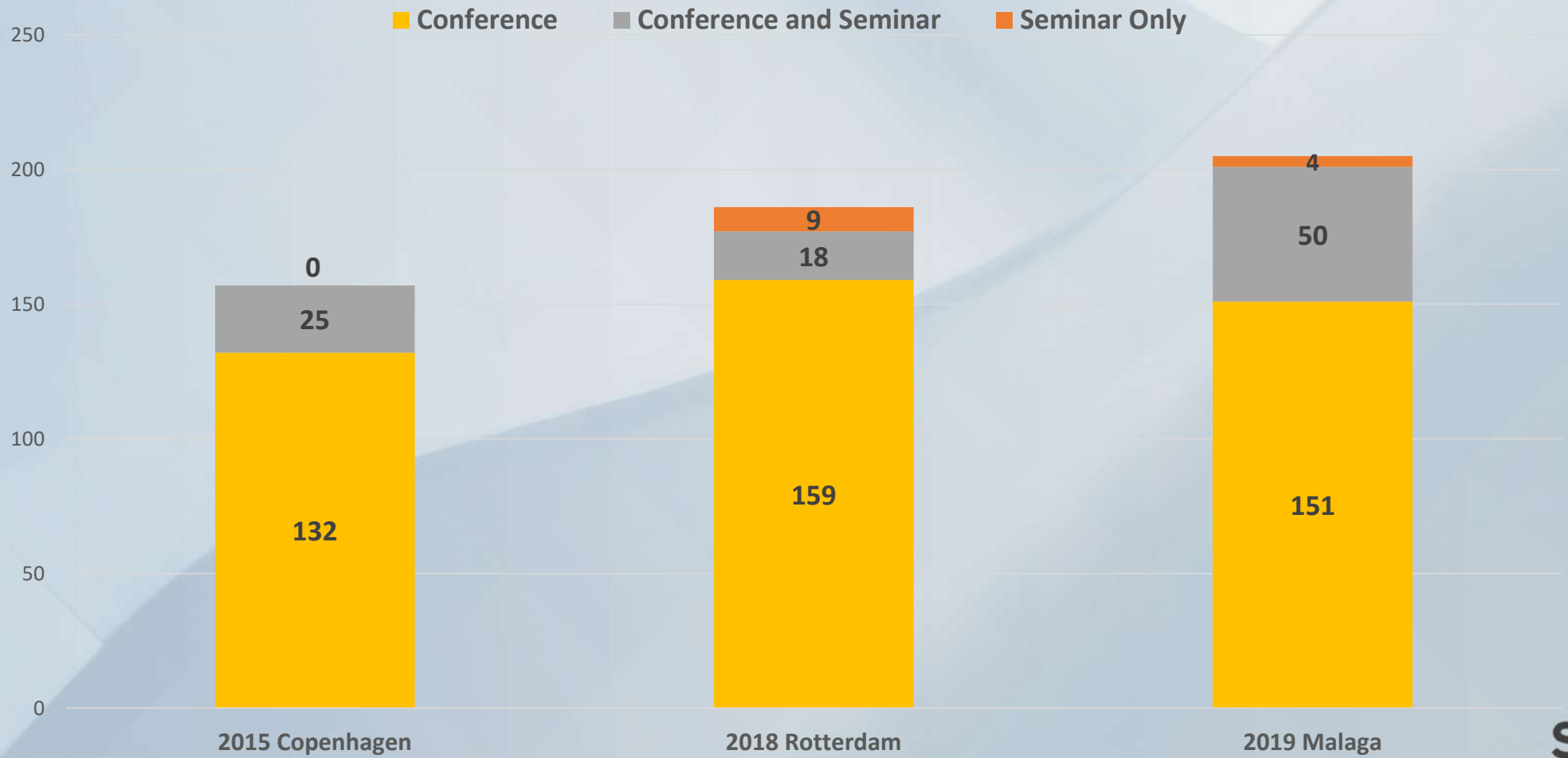


# European Conference Venues



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# European Fire Safety Conference History



# Riferimenti e collegamenti

- La society of fire protection engineer: [www.sfpe.org](http://www.sfpe.org)
- La SFPE Europa: <https://www.sfpe.org/page/EuropeanChapters>
- Il capitolo Italiano della SFPE  
SFPE Italy – già Associazione Italiana Ingegneria Antincendio  
sede: c/o JENSEN HUGHES srl – Milano – Italy  
sito internet: [www.aiia-sfpe.org](http://www.aiia-sfpe.org)

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VINAQAQ  
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YANAQ  
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URAKOZE  
WELALIN  
THANK YOU VERY MUCH  
SAAGHA XALDA HWA  
SUWUN  
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