

SoCal SFPE Monthly Meeting Announcement

Monday May 13th, 2024 at 11:30 am

**The Grand Long Beach Event Center
4101 East Willow St., Long Beach (Free Parking)**

Please join us for networking, camaraderie, and the latest technical information.
Now offering both In-Person and Virtual Attendance Options!

Agenda

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| 11:15 am – 11:30 am | Check-in and Networking |
| 11:30 am – 11:45 am | SFPE Business including election of 2024-2025 Officers and Board Members |
| 11:45 am – 1:00 pm | Keynote Presentation including Q&A |

Topic: STRUCTURAL FIRE PROTECTION ENGINEERING OVERVIEW

Structural Fire Engineering is a specialized field of engineering that focuses on the analysis, design, and optimization of building structures to withstand fire and ensure they can maintain their integrity and stability. Learn essential updates on evolving standards and practices within the industry that are influencing design and construction decisions.

- **AHJs** – Learn about the latest engineering practices that impact regulatory and safety standards, especially regarding ASCE-7 and related approaches being used throughout the country.
- **FPEs** – Deepen your understanding of these innovative approaches and methodologies.
- **Insurance Underwriters** - Learn about risk mitigation strategies, the impact of engineering solutions on property insurance considerations, and how these can address risks beyond minimum prescriptive requirements.
- **Manufacturers** – Learn insights into how your products can be effectively utilized within current engineering designs and potentially influence future developments.

We'll cover:

- Prescriptive vs. Performance-Based Design for Structural Fire Resistance
- Concrete Case Study using Fire Element Analysis (FEA)
- Steel and Composite Construction Case Studies using Computational Fluid Dynamics (CFD), Membrane Action of Composite Structures in Case of Fire (MACS+) and Abaqus

Presented by Nate Wittasek | Principal | Simpson Gumpertz & Heger



Nate Wittasek, P.E., C.F.E.I., LEED AP has 25 years of experience working in fire protection engineering, code consulting and failure analysis. Nate has knowledge of fire and life safety principles, scientific method, building and fire codes, federal and state accessibility requirements, NFPA & OSHA standards, forensic investigation of fire cause & origin as well as system failures analysis. Having served as a fire science research professional, firefighter, consultant in the Engineering industry, and educator at UCLA and Cal Poly Pomona, Nate is uniquely positioned to assist in proactive (fire engineering and codes consulting) and reactive (forensic, and fire investigation) projects. Nate serves on technical committees addressing life safety, tall buildings, evacuation, fire protection systems, and air/smoke movement.

Register at www.sfpesocal.org

Registration	By May 9 th	After May 9 th
Member, SoCal SFPE Chapter (In-Person) includes lunch	\$35	\$45
Non-Member (In-Person) includes lunch	\$50	\$60
Virtual Attendee *	\$25	\$25

* For virtual attendees, the Zoom Meeting Link will be emailed to you no later than 9 am the day of the presentation.

Registration for virtual attendees will close on May 10th. Questions? Webmaster@SFPESoCal.org