



#### EDUCATION

- California State University, Fullerton
  - Bachelor of Science, Civil-Structural Engineering, 1986
  - Bachelor of Arts, Business, 1979
- California Polytechnic State University, San Luis Obispo
  - Master of Science, Fire Protection Engineering, 2019, with honors

#### PRACTICE AREAS

- Fire Protection, Detection, and Alarm Systems Design/Analysis
- Facade Investigation
- Hazardous Materials Analysis
- Code Consulting
- Loss Investigation/Litigation Consulting

#### REGISTRATIONS

- Fire Protection Engineer in AZ, CA, HI, MN, NV, and UT

#### PROFESSIONAL AFFILIATIONS

- National Fire Protection Association (NFPA)
- Society of Fire Protection Engineers (SFPE)

#### CONTACT

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#### EXPERIENCE

Garner Palenske brings more than thirty-two years of experience in the fire protection and life safety consulting field. Mr. Palenske's experience includes building and fire code analysis, performance-based design, fire protection/detection system design, fire modeling, fire testing, wildland fire analysis, origin and cause, and other forensic work. His publications include numerous fire sprinkler projects exploring ESFR sprinkler performance, high-piled storage fire behavior, and lithium-ion Energy Storage System fire hazard analysis.

#### REPRESENTATIVE PROJECTS

##### Fire Protection, Detection, and Alarm Systems Design/Analysis

- Confidential Project - Orange County, CA: Fire sprinkler system evaluation
- Manchester Pacific Grand - San Diego, CA: Code consulting, fire sprinkler system design, and smoke control design for six high-rise buildings \*
- Sunroad Arriva - San Diego, CA: Fire sprinkler and fire alarm system design for high-rise residential building, including fire pump and tank design \*
- Lowe's Home Improvement Centers - Nationwide: Fire sprinkler and fire alarm system design \*
- San Diego International Airport, Customs Area - CA: Fire sprinkler, fire alarm, smoke control system design \*

##### Facade Investigation

- High-Rise Building - San Diego, CA: Facade field investigation

##### Hazardous Materials Analysis

- Watson Pharmaceuticals - Corona, CA: Hazardous material analysis for industrial and laboratory buildings \*

##### Code Consulting

- One Paseo Retail Development - San Diego, CA: Code consulting and smoke control system design for three office buildings \*
- Downtown San Diego Public Library - CA: Code consulting and smoke control design \*

#### AWARDS AND HONORS

- California Preservation Foundation Award, UCSD Geisel University House Rehabilitation, 2017
- Gold Nugget Grand Award and Award of Merit Honors, Battle of Midway Theater, 2014
- California Preservation Foundation Design Award, Junipero Serra Museum, 2014
- Fire Protection Research Foundation Best Project Medal, 2012

#### TECHNICAL COMMITTEES

- National Fire Protection Association, Standard 13 "Installation of Sprinkler Systems"

#### PUBLICATIONS AND PRESENTATIONS

- "Storage in the Presence of Horizontal Barriers or Solid Shelves," NFPA National Conference, Las Vegas, NV, 2018
- "Obstructions and ESFR Sprinklers Phase 1," NFPA National Conference, Chicago, IL, 2015
- "Obstructions and ESFR Sprinklers Phase 2," NFPA National Conference, Las Vegas, NV, 2106
- "Use of Actual Delivered Density to Predict ESFR Sprinkler Performance," Suppression and Detection Symposium, NFPA Fire Protection Research Foundation, Orlando, FL, 2015
- NFPA 13 Automatic Sprinkler Systems Handbook 2013, Contributing author
- NFPA 13 Sprinkler System Density Design Curves - Where Did They Come From?" *Fire Protection Engineering Magazine*, 2012
- "Warehouse Challenge," NFPA Magazine, Contributor, 2011
- "High Challenge Warehouses," Fire Protection Research Foundation, Orlando, FL, 2010
- "HVLS Fan and Sprinkler Operation," NFPA Fire Protection Research Foundation, 2009

\* Indicates with previous firm