



Contact Details

brian.meacham@meachamassociates.com

Representative Positions Held

Current, *Meacham Associates*, Managing Principal
Current, *Lund University*, Adjunct Professor
Current, *Kindling*, Principal Advisor, Fire Risk, Safety, & Resilience
2024 – 2025, *Crux Consulting*, Director, Risk & Regulatory Consulting
2008 – 2017, *Worcester Polytechnic Institute*, Associate Professor
2000 – 2007, *Arup*, Principal
1995 – 2000, *SFPE*, Technical Director & Research Director

Qualifications

P.E., Massachusetts, 47238
P.E., Connecticut, 17906
Chartered Engineer, UK, Institution of Fire Engineers, 519749
EUR ING, FEANI, Europe, 34094
Ph.D., Risk and Public Policy, Clark University
M.S., Fire Protection Engineering, Worcester Polytechnic Institute
B.S., Electrical Engineering, Worcester Polytechnic Institute

Representative Memberships

International Association for Fire Safety Science
Institution of Fire Engineers
Society of Fire Protection Engineers
National Fire Protection Association

Key Data

Brian has more than forty years of international experience helping organizations of all sizes address fire safety design and risk mitigation challenges for complex building and infrastructure projects, helping governments and NGOs by undertaking building and fire regulatory system reviews, and conducting research in these and related areas. Brian is widely recognized as an authority on risk-informed performance-based approaches for fire safety.

Awards, Recognition, Appointments

Fellow, IFE
Fellow, SFPE
Fulbright Global Scholar
Fulbright Specialist
ICC Global Award
SFPE Harold E. Nelson Service Award
IAFSS Kawagoe Gold Medal Award

Representative Recent Projects

World Bank (Washington, DC, USA). Contracted provide review of the fire safety sections of draft Building Codes of Tanzania, Rwanda, Liberia, Ghana and Bhutan; and review of building design in the Marshall Islands (July 2024 – June 2026).

Pacific Region Infrastructure Facility (PRIF) / Asian Development Bank (Tokyo, Japan). Contracted to provide expert input on fire provisions and building code development for Kiribati, Nauru, Marshall Islands, and Vanuatu; peer review of fire provisions for Tuvalu; development of technical guidelines for fire safety in areas where water is lacking (August 2023 – July 2025).

TACK Architects Inc. (Omaha, NE). Member of team developing PBD for allowing three floors of an office building to be interconnected by an open concept convenience stair (September - December 2025, as part of Crux Consulting).

Crawford Architects, LLC (Kansas City, MO) / Crux Consulting, (Omaha, NE). Member of team developing PBD for smoke protected seating of a large stadium renovation and expansion in Florida (January 2025 -).

State of Minnesota (St. Paul, MN) (subcontracted to WJE). Member of a team assessing risk to life associated with single exit residential buildings up to 23 m (75 feet) above grade (April – December 2025).

Lund University, (Lund, Sweden). Contracted to co-lead research effort on decision framework for sustainable and fire resilient built environment (SAFR-BE) under \$1M research award from UL FSRI to Lund University (Jan 2026 – Aug 2027).

Kestral Group (Wellington, New Zealand). Engaged to provide expert input and peer review for project to support the development of a standardized approach to fire design relating to means of escape and evacuation procedures to enable efficient building consenting and evacuation scheme approvals with a view to Health New Zealand. (Dec 2021 – Apr 2023)

Port Authority of New York and New Jersey, (New York, NY). Contracted (via Mott MacDonald) to provide fire safety peer-review services of a performance-based fire safety design for an innovative theater project with moveable floors & configurable theater spaces (2022 - 2024)

UCSD (San Diego, CA). Fire safety engineering and fire research support for project on Earthquake and Fire-Following Earthquake Resiliency of Mid-Rise Cold-Formed Steel Buildings (2021 –)

SFPE Foundation (Bethesda, MD, USA). Research to lay the groundwork for future development of risk-informed performance-based tools for the assessment of sustainable and fire resilient buildings (with Lund University), (Sep 2022-June 2023).

Kindling, Inc. (Duxbury, MA).

Conducted research into the fire safety risk of the insecure and vulnerably sheltered in USA for the National Fire Protection Association (Dec 2021 – Aug 2022).

Port Authority of New York and New Jersey, (New York, NY). Contracted (via Mott MacDonald) to provide fire safety peer-review services for a historic airport terminal project (Dec 2018 – Jan 2019).

Port Authority of New York and New Jersey, (New York, NY). Contracted (via Mott MacDonald) to provide peer-review services for a performance-based design of a high-hazard facility (2018 – 2022)

Representative Publications**Books, Chapters, Monographs**

Building Code Checklist for Fire Safety, World Bank, June 2023, <https://documents1.worldbank.org/curated/en/099091123130031032/pdf/P176068094df7400c0a77b0ee2feb86dcd0.pdf>.

Meacham, B.J., “Fire Risk Analysis,” Chapter 8, Section 3, Fire Protection Handbook, 21st Edition, NFPA, Quincy, MA, 2023.

Hurley, M. and Meacham, B.J., “Systems Approach to Building Fire Safety Design,” Chapter 9, Section 1, Fire Protection Handbook, 21st Edition, NFPA, Quincy, MA, 2023.

Meacham, B.J. and McNamee, M. (Eds.) Handbook of Fire and the Environment: Impacts and Mitigation, Springer, <https://link.springer.com/book/10.1007/978-3-030-94356-1>, 2022.

Global Plan for a Decade of Action for Fire Safety, International Fire Safety Standards Coalition https://ifsscoalition.wordpress.com/wp-content/uploads/2025/09/decade-of-action-for-fire-safety-2026-2035_oct2025_ifss-coalition_final.pdf, 2025.

Developing a global standard for fire reporting, Royal Institution of Chartered Surveyors, London https://www.rics.org/content/dam/ricsglobal/documents/standards/Developing-a-global-standard-for-fire-reporting_July-2023.pdf), 2020.

Fitzgerald, R.W. and Meacham, B.J., *Fire Performance Analysis for Buildings*, John Wiley & Sons, 2017.

Meacham, B.J., Johnson, P.J., Charters, D. and Salisbury, M., “Building Fire Risk Analysis,” Chapter 75, *SFPE Handbook of Fire Protection Engineering*, 5th Ed., Springer, 2015.

Project Reports, Diagnostics

Minnesota Single-Exit Stairway Apartment Building Study, WJE Report, (with Ozog, N., Baldassarra, C., Christiansen, K). December 2025, https://dli.mn.gov/sites/default/files/pdf/Minnesota_Single-Exit_Stairway_Apartment_report.pdf

Environmental Benefits of Rapid Fire Detection, Honeywell (with McNamee, R., McNamee, M., and Amon, F., December 2023) https://lucris.lub.lu.se/ws/portalfiles/portal/173443064/Report_Environmental_Impacts_of_Rapid_Fire_Detection_-_Nov_30_2023_FINAL_rev2.pdf

The Invisible US Fire Problem: Homelessness and Informality, Kindling & National Fire Protection Association (with D. Antonellis, S. Vaiciulyte and C.R. Jennings), <https://kindlingsafety.org/wp-content/uploads/2025/11/The-Invisible-US-Fire-Problem.pdf> September 2022

Urban Fire Risk Assessment and Mitigation Evaluation (Urban FRAME) Diagnostic, World Bank, Washington, DC, (with Moullier et al. <https://openknowledge.worldbank.org/handle/10986/34671>), Nov 2020.

Building Regulatory Capacity Assessment, World Bank, 2016 <https://openknowledge.worldbank.org/handle/10986/27655> .

Recent Peer-Reviewed Papers

Wetterqvist, C., Meacham, B.J., McNamee, M., Sustainability and fire safety decisions in the design process: Overview and two Swedish building projects, *Fire Safety Journal*, Volume 162, 2026, 104667, ISSN 0379-7112, <https://doi.org/10.1016/j.firesaf.2026.104667>.

Frantzich, H., McNamee, M., Kimblad, E. and Meacham, B.J., “Decision Support Framework for Sustainable and Fire Resilient Buildings (SAFR-B),” *Fire Technology*, 61, 213–246, 2025, <https://doi.org/10.1007/s10694-024-01678-7>.

Bjelland, H., Gehandler, J., Meacham, B., Carvel, R., Torero, J.L., Ingason, H., Njå, O., Tunnel fire safety management and systems thinking: Adapting engineering practice through regulations and education, *Fire Safety Journal*, Volume 146, 2024, 104140, ISSN 0379-7112, <https://doi.org/10.1016/j.firesaf.2024.104140>.

McNamee, M. and Meacham, B.J., “Conceptual Basis for a Sustainable and Fire Resilient Built Environment,” *Fire Technology*, <https://link.springer.com/article/10.1007/s10694-023-01490-9>, 2023.

Meacham, B.J., “Fire Safety of Existing Residential Buildings: Building Regulatory System Gaps and Needs,” *Fire Safety Journal*, <https://doi.org/10.1016/j.firesaf.2023.103902>, 2023.

Elhami-Khorasani, N., et al., Conceptualizing a Probabilistic Risk and Loss Assessment Framework for Wildfires, *Natural Hazards*, <https://doi.org/10.1007/s11069-022-05472-y>, 2022.

Meacham, B.J., “Fire performance and regulatory considerations with modern methods of construction,” *Buildings and Cities*, 3(1), 464–487. <https://doi.org/10.5334/bc.2012022>.