



Session 2D:

The Design Fire – Selecting Input Parameters for Fire & Egress Modeling Approaches

One of the most valued services fire protection engineering consultants can provide a client is the use of fire modeling as part of a performance-based design (PBD) approach. These approaches have been utilized to solve unique design challenges, monetary constraints, and unique architecture and building components that don't quite fit into the prescriptiveness of today's codes. As the subject matter expert, the FPE serves as an asset to design teams by being able to model spaces using probable design fire scenarios and criteria based, which are evaluated based on performance metrics agreed upon by the project stakeholders and Authority Having Jurisdiction (AHJ). This presentation is aimed at providing an overview on the importance of these model inputs and design criteria. From current modelers looking to increase justification in their approaches, to AHJ's looking to obtain more knowledge on PBD, attendees will walk away from this presentation with an increase knowledge on the considerations that go into such an analysis.



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David Stacy, Principal & Founder of Performance Based Fire Protection Engineering, PLLC, has over a decade of experience in the fire protection field. His niche work type and skills in computational modeling are the basis of his consulting firm, specifically focusing on fire and egress modeling and performance-based designs. In addition, David and his firm provide more general fire protection services such as system design, hazard analysis, and special inspections. David has contributed to the Society of Fire Protection Engineers (SFPE) previously at two national conferences through presenting material on the advancement of computer fire modeling. He has multi-state PE and firm licensure, and is based out of Raleigh, NC.

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