



Session 2A

3D Printing: Code and Safety Design Considerations

3D printing operations are rapidly becoming commonplace in today's world. They are revolutionizing the way we problem solve and are improving the speed in which prototypes can be developed. Through the application of 3D printing, we can not only form-fit a solution in a fraction of the time required previously, but we can also do so with greater efficacy; however, with great power comes great responsibility. With the advent of new technology, it becomes incumbent on engineers and other safety professionals to ensure undue hazards are not created; but when they are, it is our job to ensure they are adequately mitigated.

This presentation will provide an overview of the hazards of 3D printing equipment & mediums, equipment installation requirements, nuances associated with international testing of combustible dusts, and a brief summary of the driving NFPA and ICC requirements.



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Rob Plonski is a Senior Fire Protection Engineer working within the Department of Energy (DOE) in support of nuclear and non-nuclear facilities and is recognized as the Savannah River Site expert on combustible metals, powders, and dusts. He received his undergraduate in Mechanical Engineering, masters in Fire Protection, is a licensed PE in Fire Protection, and is currently pursuing a PhD in Systems Engineering.

As the former CSRA-SFPE chapter secretary, vice president, and current president, Mr. Plonski remains dedicated to the advancement of the fire protection engineering community through outreach, community service, and continuing education. Some of these volunteer efforts include the rewrite of DOE's Primer on Spontaneous Heating and Pyrophoricity, update to the DOE Standard for Fire Protection, authored a section of the Plutonium Handbook pertaining to Fire Protection Considerations in Plutonium Facilities for the American Nuclear Society, and most recently helped develop NFPA's Certified Hazard Recognition Specialist Program.

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