



Session 3A:

Additive Manufacturing Combustible Dust Hazards: Properly Protecting 3D Printers & Makerspaces

As Additive Manufacturing (AM) becomes more cost-effective and widespread, makerspaces and associated equipment are being installed into a variety of sectors of the built environment, including; commercial, industrial, and educational, to name a few. There are inherent combustible dust hazards in AM. Learning objectives for the presentation are as follows:

1. Identify the 5 components of a combustible dust explosion
2. Understand building code requirements for AM
3. Identify some of the unique fire and explosion hazards associated with AM.
4. Describe some of the design-based protection methods available for AM
5. Describe some of the operation-based protection methods available for AM.



Chris Unangst, PE, CSP
Sr. Chemical Engineer
Jensen Hughes

Chris is a Senior Engineer for Jensen Hughes' Atlanta, Georgia office. His primary responsibilities include process hazard analyses, dust hazard analyses and job hazard analyses. Chris has extensive experience in PSM compliance auditing and general EHS compliance auditing for industrial clients. He has created EHS programs to meet industry best practices and fulfill all safety requirements.. As a Certified Safety Professional (CSP), he has extensive knowledge in OSHA, EPA, and NFPA regulations. In addition to his safety skills, Chris has experience with pollution prevention, devising solutions for air permitting and waste water issues. He is a member of the Society of Fire Protection Engineers (SFPE) and American Institute of Chemical Engineers (AIChE).

WWW.SFPEATLANTA.ORG

Please visit the website for conference costs and registration information.