



### Session 3B:

### Performance Testing of an NFPA 18A Wetting Agent on Deep Seated Fires Using a Small Scale Test Apparatus

This presentation will cover testing results that look at the performance of NFPA 18A wetting agents on deep seated fires. The testing used a small scale apparatus first proposed in an NFPA research foundation report entitled, "Evaluation of Water Additives for Fire Control and Vapor Mitigation Phase 1 Final Report". The test apparatus was filled with cotton, coal, and cracked corn (feed). A heat source was activated in the middle of the fuel and fire propagation was tracked using thermocouples. Water and an NFPA 18A wetting agent were applied to the top of the fuel. The speed or penetration, cooling, suppression, and amount of agent that transverse the material was collected and will be presented to show the differences in performance.



James "Andy" Lynch  
Owner  
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James "Andy" Lynch of the Fire Solutions Group (FSG) has worked in the fire industry for over 20 years. In that time, Mr. Lynch has amassed extensive experience in fire protection engineering, code consulting, fire research, and product development. He has a wide-range of fire testing experience, having conducted numerous test series for litigation purposes, the military, and various products. He has a B.S. in Mechanical Engineering and a M.E. in Fire Protection Engineering from WPI. He is a member of the Salamander Honorary Fire Protection Engineering Society, the National Fire Protection Association, The National Fire Sprinkler Association, and the Society of Fire Protection Engineers. Mr. Lynch is a fire testing committee member and committee member of the new fuel gases warning equipment standard.

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