



## **Seminar 1**

### **Performance-Based Design for the Management of Dust Explosion Hazards**

This seminar begins with a review of the current understanding of the combustible dust hazards, the current state of the design standards, and the prescriptive means of managing those hazards. The presentation is a topic review to get everyone up to speed on the topic.

Prescriptive design approaches are not always practical or even possible. In other cases, the cost of prescriptive approaches pose a significant barrier to their use. The session shows how one can use performance-based design to develop performance-equivalent alternatives to the prescriptive design through a series of examples that have been used. This presentation illustrates design approaches and methods that would hopefully be of some benefit to the fire protection engineering community.



#### **John Cholin, P.E., FSFPE, M.E.E.**

**President**

**J.M. Cholin Consultants**

Mr. John M. Cholin, PE, is President of J.M.Cholin Consultants, Inc., a fire protection consulting and engineering firm. Mr. Cholin received his Bachelors in Chemistry from Colgate University and a Master of Electrical Engineering from the Stevens Institute of Technology. He is a Licensed Professional Engineer by the State of Connecticut in the discipline of Fire Protection Engineering.

Mr. Cholin is the principal of J.M.Cholin Consultants, Inc., focusing primarily on dust explosion hazard management and performance-based design addressing industrial fire protection issues. He holds 12 patents relating to fire protection systems.

He is a member of: NFPA and NSPE, a Fellow of the SFPE, and a member of the NFPA Technical Committee on Initiating Devices for the National Fire Alarm and Signaling Systems Code, NFPA Technical Committee on Handling and Conveying of Dusts, Vapors and Gases, NFPA Technical Committee on Wood, Paper and Cellulosic Materials, NFPA Technical Committee on Fundamentals of Combustible Dusts, and NFPA Technical Correlating Committee on Combustible Dusts.

He has authored four chapters for the 18th, 19th and 20th editions of the NFPA Fire Protection Handbook; He also serves as a seminar instructor for the Society of Fire Protection Engineers, Georgia Tech. and OSHA.

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