



GLOBAL  
**DUST SAFETY**  
CONFERENCE  
2021

**Conference Program**  
**LIVE MARCH 1 - 3, 2021**  
*+ special on-demand sessions*

**[LEARN MORE AT WWW.DUSTSAFETYCONFERENCE.COM](http://WWW.DUSTSAFETYCONFERENCE.COM)**

**15 Sessions and 50+ Presentations Inside →**

These sessions are pre-recorded and will be available for on-demand viewing starting February 22, 2021.

### Session 1: Hazard Identification & Analysis

#### **Four Primary Strategies to Achieve Maximum Combustible Dust Safety**

*Chris Giusto | Hallam-ICS*

#### **Dust Hazard Analysis for New and Modified Processes**

*Jeff Davis | Conversion Technology, Inc.*

#### **The Pitfalls & Traps of Dust Hazards Analysis**

*Jason Reason | Airdusco EDS*

#### **Introduction To Combustible Dust Test Methods [DSC2020 Replay]**

*Dr. Ashok Dastidar | Fauske*

### Session 2: Dust Collection & Cleaning

#### **The Essentials for Containing, Capturing, Controlling, and Separating your Combustible Dust**

*Jack Osborne | Airdusco EDS*

#### **Dust Collection Design When Handling Explosive Dust**

*Andy Thomason | Camfil APC*

#### **Simple Methods to Ensure your Dust Collection System Maintains Combustible Dust Compliance**

*Jack Osborne | Airdusco EDS*

#### **Effective and Safe Housekeeping | Design Fundamentals for a Central Vacuum System**

*Niels Pedersen | Nederman*

### Session 3: Explosion Prevention & Protection

#### **Introduction to Electrostatic Spark Hazards**

*Dr. Vahid Ebadat | Stonehouse Process Safety*

#### **Equipment Options for Static Protection Related to Levels of Protection**

*Richard Puig | Newson Gale*

#### **The Dynamics of Explosion Detection**

*Rob Lade | IEP Technologies*

#### **Impact of Explosion Detection on Effective Isolation Techniques**

*Rob Lade | IEP Technologies*

### Session 4: Management Systems & Performance-Based Design

#### **Explosion Protection - Safely Managing Process Changes**

*David Grandaw | IEP Technologies*

#### **Difference Between Prescriptive and Performance-Based DHAs [DSC2020 Replay]**

*John Wincek | DEKRA Process Safety*

**Opening Keynote**

9:00 AM  
INTRODUCTION

**Combustible Dust Safety: Open Challenges and Charting a Path Forward Together**  
*Dr. Chris Cloney | DustEx Research Ltd.*

10:00 AM

15-Minute Break

**Session 5: Common Challenges in Combustible Dust**

10:15 AM

**Your DHA Report Tells You Your Systems Aren't Working - Great, Now What?**  
*Eric Maynard | Jenike & Johanson, Inc.*

11:00 AM

**In-house DHAs vs Third Party DHAs for Multiple Sites**  
*Jeff Davis | Conversion Technologies, Inc.*

11:45 AM

15-Minute Break

12:00 PM

**Practical Application of Performance-Based Design for Combustible Dust Handling Processes Using an Internationally Accepted Framework**  
*Marc Hodapp | Fire & Risk Alliance*

12:45 PM

**Quo Vadis Explosion Safety - Curiosities from Explosion Safety Concepts and Standards**  
*Johannes Lotterman and Francesca Vincenzi | REMBE Process + Safety*

1:30 PM

One-Hour Break

**Session 6: Case Studies & Success Stories**

2:30 PM

**Hazard Monitoring Case Study in Feed and Grain Applications**  
*Brian Knapp | 4B Components*

3:15 PM

**Dust Explosion Case Study in a Newly Commissioned Pharmaceutical Plant**  
*Dehong Kong | Princeton Safety Solutions, Inc.*

4:00 PM

**Dust Collector Replacement - Overcoming Murphy's Law**  
*Diane Cave | Element6 Solutions*

4:45 PM

15-Minute Break

**Closing Keynote**

5:00 PM  
CLOSING

**Protecting Workers and Emergency Responders During Combustible Dust Fires**  
*Thomas Scherpa | DuPont*

**Opening Keynotes**

9:00 AM **NFPA 660: Upcoming NFPA Changes and What They Mean for Combustible Dust Safety**  
*Jason Krbec | CV Technology*

10:00 AM *15-Minute Break*

**Session 7: Explosion Protection & Recent Findings**

10:15 AM **Practical Considerations When Planning and Implementing Dust Explosion Protection**  
*Tim Heneks | Dustcon Solutions*

11:00 AM **Key Considerations for the Application of Flameless Venting Devices**  
*Markus Haeseli | IEP Technologies*

11:45 AM *15-Minute Break*

12:00 PM **Quality Controls in ATEX Certification Testing of Flap Valves**  
*Tom Farrell | Fike Corporation*

12:45 PM **Artificial Inflation of Application Ratings of ATEX-Certified Devices**  
*Dimitrios Kakogiannis, PhD | Fike Corporation*

1:30 PM *One-Hour Break*

**Session 8: Dust Collection, Cleaning and Detection**

2:30 PM **Addressing Common Dust Collection and Combustible Dust Misconceptions**  
*Chrissy Klocker | Donaldson Company, Inc.*

3:15 PM **Preventing Fugitive Dust Build-up – Mitigating the Risk and Cost of Traditional Housekeeping**  
*Jordan Newton | SonicAire*

4:00 PM **Reliable 24/7 Dust Detection in Industrial Environments**  
*John Korpi | Sintrol*

4:45 PM *15-Minute Break*

**Closing Keynote**

5:00 PM **Dust Fire & Explosion Incident Investigations: Why? What Can We Learn?**  
*Dr. Suzanne Smyth & Dr. Russell Ogle | Exponent*  
 CLOSING

**Session 9: Hazard Analysis Research**

9:30 AM **Inherently Safer Design Protocol for Process Hazard Analysis**  
*Kayleigh Rayner Brown | Dalhousie University*

10:00 AM *15-Minute Break*

**Session 10: Experimental Research**

10:15 AM **Non-Traditional Dusts: What We Miss From Standard Tests**  
*Enrico Danzi*

10:45 AM **Fire Hazard of Combustible Dust Layers in the Process Industries**  
*Jingzhi Cai*

11:15 AM **Investigating the Phenomenon of Marginal Explosibility**  
*Albert Addo | Dalhousie University*

11:45 AM *15-Minute Break*

12:00 PM **Influence of the Pressure Difference on the Safety Characteristics of Dusts and Potential Ignition Sources for Hybrid Mixtures**  
*Stefan Spitzer | Bundesanstalt für Materialforschung und -prüfung (BAM)*

12:30 PM **Development of a Large Scale Testing Rig for Experimental Investigations on the Flame Propagation in a Dust/Air Mixture Under Low Initial Turbulence**  
*Katja Hüttenbrenner | IRIS - Industrial Risk and Safety Solutions*

1:00 PM *90-Minute Break*

**Session 11: Computer Modeling Research**

2:30 PM **CFD Study of the Effect of Pipe Bending Angle on Pressure Piling in Coal Dust Explosion**  
*Damilare Ogungbemi | Jensen Hughes*

3:00 PM **Modelling of a Vented Corn Starch Dust Explosion Using an Open Source Code**  
*Chen Huang | Research Institute of Sweden (RISE)*

3:30 PM *15-Minute Break*

**Closing Keynotes**

3:45 PM **Research and Development of Flameless Technology for Isolation Applications**  
*Jason Krbec and Kees van Wingerden | CV Technology and Gexcon*

4:45 PM *15-Minute Break*

5:00 PM **Aluminum Dust Full Scale Suppression and Dry Chemical Isolation Test Results and How to Apply Traditional Protection Methods**  
*Rob Lade and Burke Desautels / IEP Technologies*

GET YOUR TICKET TODAY AT [WWW.DUSTSAFETYCONFERENCE.COM](http://WWW.DUSTSAFETYCONFERENCE.COM)

These sessions are pre-recorded and will be available for on-demand viewing during the conference.

#### Session 12: Industry Case Studies

**Lithium-Ion Batteries Invade the Waste & Recycling Industry Case Study: Defining Scope of Fire Problem; Earning Stakeholders; Developing and Implementing Industry-wide Solutions**

*Ryan Fogelman | Firerover*

**Mitigating the Dangers of Dust Accumulation in Material Recovery Facilities**

*Dan Bermi | Great Lakes Power Vac, LLC*

**Evolving Additive Manufacturing Combustible Dust Hazards and Safety Standards**

*Bob Zalosh | Firexplo LLC*

**Lessons Learned from Global Plant Inspections [2020 Replay]**

*Francesca Vincenzi | REMBE Process + Safety*

#### Session 13: New and Existing Requirements

**New 2021 SIL Rating Requirements per NFPA 69**

*Burke Desautels | IEP Technologies*

**NFPA 69 – Chapter 12-Material Chokes-Rotary Airlocks**

*Pablo Balan | BOSS Products America*

**Explosion Protection Goes Performance-Based**

*Marius Bloching and Roland Bunse | REMBE Safety + Control*

**Protected Enclosure Structural Capacity - What Do You Need to Know to Design or Qualify an Explosion Protection System?**

*Phil Parsons | BakerRisk*

#### Session 14: Dust Safety Equipment

**Grounding and Bonding of Flexible Intermediate Bulk Containers**

*Richard Puig | Newson Gale*

**PPE and Combustible Dust – The Often Overlooked Piece of Protection**

*Derek Sang | Bulwark Protection*

**Wet Dust Collector Sizing and Installation for Metallic Dusts [2020 Replay]**

*Denise Duncan | AT Industrial Products*

#### Session 15: Automation & New Technology

**On-Demand Dust Collection Control Systems Compatibility with NFPA-664 & 652**

*Ales Litomisky | Ecogate, Inc.*

**How Does IoT Monitoring Technology Improve Combustible Dust Safety Systems?**

*Rob Williamson | Nederman*

**Explosion Prevention Goes AI - Electronic Eyes and Nose for Early Fire Detection**

*Jeremy Slaunwhite & Alexander Kemmling | REMBE Safety + Control*