



Online Training Library

*Last updated on: 25 February 2024
Total # Videos: 186, Total Hours: ~115*

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Part 1: Fundamentals & Standards

Overview: 34 videos with 20.5 hours of material covering fundamental concepts, NFPA standards, OSHA, Insurance and International codes and standards.

Fundamental Concepts & Background (7 Videos)

- **Fundamental Concepts for Combustible Dust Safety (2020)**
Dr. Chris Cloney, DustEx Research Ltd.
- **An Update On Combustible Dust Safety In 2020 (2020)**
Wills Houghland, US Chemical Safety Board
- **Simplifying the Dust Compliance Process & Avoiding Legal Issues (2020)**
Howard Mavity, Fischer & Phillips
- **Review of DustSafetyScience & Related DustSafety Platforms (2020)**
Dr. Chris Cloney, DustEx Research Ltd.
- **Lessons Learned From CSB Call To Action On Combustible Dust (2020)**
Crista Vesel, Ivan Pupulidy, Dynamic Inquiry
- **Combustible Dust Safety: Open Challenges & Charting A Path Forward Together (2021)**
Dr. Chris Cloney , DustEx Research Ltd.
- **Top five questions that come up during site combustible dust training (2024)**
Phil Parsons / Baker-Risk

NFPA Standards (10 Videos)

- **Recognizing, Evaluating & Controlling Hazards of Combustible Dust (2020)**
Guy Colonna, National Fire Protection Agency
- **Ask Me Anything: Prevention Of Explosions In Woodworking Facilities NFPA 664 (2020)**
Diane Cave, Element6 Solutions
- **Introduction To NFPA 652 & Dust Hazard Analysis (2020)**
David Hakes, XP Products
- **NFPA 652 Chapter 8: Management Systems (2020)**
Timothy Heneks, Dustcon Solutions
- **New 2021 SIL Rating Requirements Per NFPA 69 (2021)**
Burke Desautels, IEP Technologies

- **NFPA 69 Chapter 12 Material Chokes-Rotary Airlocks (2021)**
Pablo Balan , Boss Products
- **NFPA 660: Upcoming NFPA Changes & What They Mean For Combustible Dust Safety (2021)**
Jason Krbec, CV Technology
- **Current Status of NFPA 660: Standard for Combustible Dusts (2023)**
Laura Moreno, NFPA and Jason Krbec, CV Technology
- **Development of a management systems checklist to satisfy NFPA652 Chapter 8 requirements (2024)**
Chrissy Klocker / Donaldson Company Inc.,
Steve Luzik / Stonehouse Process Safety Inc.
- **Panel Discussion: Current status of NFPA 660 development and expert Q&A (2024)**
Ashok Dastidar / Fauske & Associates, LLC
Jason Krbec / CV Technology Inc.
Tim Myers / Exponent Inc
Kevin Kreitmann

OSHA, Insurance and Other Codes & Standards (5 Videos)

- **How Fundamental Explosion Research is Translated into Loss Prevention Guidance at FM Global (2023)**
Dr.-Ing. Lorenz R. Boeck / FM Global
- **Recent updates to the International Fire Code Chapter 22: Combustible Dust-Producing Operations (2023)**
Marc Hodapp / Fire & Risk Alliance
- **Risk Management Considerations in Wood Product Manufacturing from an Insurance Broker's Perspective (2023)**
Will Downing / Acera Insurance
- **Fireside Chat: Combustible Dust and OSHA Enforcement (2023)**
Jeffrey J. Wanko / OSHA
- **Combustible Dust National Emphasis Program (NEP) results and lessons from recent inspections (2024)**
Liliana Silvera / OSHA

International Regulations & Standards (13 Videos)

- **Comparing NFPA 68 and EN 14491 Requirements For Venting (2020)**
Marius Bloching, Jeramy Slaunwhite, REMBE
- **A Global View of Combustible Dust Standards & Regulations (2020)**
Dr. Bob Zalosh, FireExplo
- **Differences Between Global Approaches To Hazard Analysis (2020)**
Dr. Jef Snoeys, Bruce McLelland, Fike
- **International Ex Facility Assessment & Certification (2020)**
Arpad Veress, ExNB
- **Quo Vadis Explosion Safety - Curiosities From Explosion Safety Concepts & Standards (2020)**
Dr. Johannes Lottermann, Francesca Vincenzi, REMBE
- **Understanding The International Approach To Explosion Safety (2020)**
Michael Marrington, IndEX Middle East
- **Ask Me Anything: Combustible Dust In New Zealand & Australia (2021)**
Dr. Chris Bloore, Self-employed Consultant,
Dr. Jim Munro, Jim Munro Intl Compliance Pty Ltd.
- **The Differences in a North American DHA and a European EPD (2023)**
Brian Edwards / Fike Corporation, Dilip Arulappan / Fike Europe
- **Recent Developments in the European Dust Explosion Protective System and Device Standards (2023)**
Dr. Kees Van Wingerden / Vysus Norway
- **Current status of combustible dust safety and lessons learned from recent incidents in Brazil (2024)**
Monica Remonato / Remonato Fire Protection Engineering
- **Fake ATEX products and certification challenges in the UK, Europe and beyond (2024)**
Terry McDonald / Thorne & Derrick International
- **Where to from here? Understanding combustible dust safety Brazil, Latin America and beyond (2024)**

Robson Krolikowski / CV Technology

- **Upcoming release process for the proposed British Columbia regulations for combustible dust. Why they are needed and what it means for industries in BC (2024)**
Rodney Scollard & Mike Tasker / WorkSafe BC

Part 2: Hazard Identification & Analysis

Overview: 33 videos with 19.8 hours of material covering combustible dust testing, hazard identification and analysis, risk-based and performance-based risk assessment and electrostatic ignition hazards.

Combustible Dust Testing (6 Videos)

- **Introduction To Combustible Dust Test Methods (2020)**
Dr. Ashok Dastidar, Fauske & Associates
- **Selection & Application of Combustible Dust Tests In Practice (2020)**
Dr. Vahid Ebadat, Stonehouse Process Safety
- **Ask Me Anything: Combustible Dust Testing (2020)**
Dr. Ashok Dastidar, Fauske & Associates
- **Combustible Dust Test Planning - Start with the End Game in Mind (2021)**
Michelle Murphy, Mica
- **Interpreting Your Combustible Dust Lab Report (2021)**
Dr. Ashok Dastidar, Fauske & Associates
- **Combustible Dust Testing - Start with the End Game in Mind (Part II, 2023)**
Michelle Murphy / Sigma-HSE

Hazard Identification & Analysis (15 Videos)

- **Combustible Dust Hazard Identification & The Dust Hazard Analysis (2020)**
Jeff Davis, Conversion Technologies Inc.,
- **Challenges Mitigating Explosion Hazards In Existing Facilities (2020)**
Chris Giusto, Hallam-ICS
- **DHA Case Study & Example Report (2020)**
Jeramy Slaunwhite, REMBE
- **Explosion Protection System Deficiencies As Discovered Through DHAs (2020)**
Phil Parsons, Baker Engineering & Risk Consultants, Inc.

- **Four Primary Strategies To Achieve Maximum Combustible Dust Safety (2021)**
Chris Giusto, Hallam-ICS
- **Ask Me Anything: Considerations For Performing Remote DHAs (2020)**
Jason Reason, SEAM Group
- **DHAs For New & Modified Processes (2021)**
Jeff Davis, Conversion Technologies, Inc.,
- **The Pitfalls & Traps of Dust Hazard Analyses (DHAs) (2021)**
Jason Reason, Airdusco EDS
- **Your DHA Report Tells You Your Systems Aren't Working - Great, Now What? (2021)**
Eric Maynard, Jenike & Johanson, Inc.,
- **In-House DHAs Versus 3rd Party DHAs for Multiple Sites (2021)**
Jeff Davis, Conversion Technologies, Inc.,
- **Virtual Plant Walkthrough & Hazard Analysis (2021)**
Diane Cave, Element6 Solutions
- **Managing Electrical Equipment for Hazardous (Classified) Locations: Applying NFPA Standards for Combustible Dust Safety (2023)**
Tim Heneks / Dustcon Solutions, Inc.
- **The Differences in a North American DHA and a European EPD (2023)**
Brian Edwards / Fike Corporation, Dilip Arulappan / Fike Europe
- **Lessons learned from 5-year DHA revalidations and how to avoid these issues at your site (2024)**
Timothy Heneks / Dustcon Solutions, Inc.
- **Top five mistakes identified during external audits and reviews of incomplete Dust Hazard Analysis reports (2024)**
Diane Cave / Element6 Solutions

Risk-Based, Performance-Based & Quantitative Risk Analysis (7 Videos)

- **Difference Between Prescriptive & Performance-Based DHAs (2020)**
John Wincek, Dekra Process Safety

- **Example QRA In Dust Handling Operations (2020)**
Marc Hodapp, Jensen-Hughes
- **Practical Application Of Performance-Based Design For Combustible Dust Handling Processes Using An Internationally Accepted Framework (2021)**
Marc Hodapp, Fire & Risk Alliance
- **Explosion Protection Goes Performance-Based (2021)**
Marius Bloching, Roland Bunse , REMBE
- **How To Conduct A Risk-Based HAZOP-Style DHA (2021)**
Dr. Sonny Sachdeva, PSRG [Online Training
- **Practical Application of Performance-Based Design (Part II, 2023)**
Marc Hodapp / Fire & Risk Alliance
- **Case Study - Use of Computational Fluid Dynamics to complete performance-based analysis for vented and interconnected vessels (2024)**
Marc Hodapp / Fire & Risk Alliance

Electrostatic Ignition Hazards (5 Videos)

- **Electrostatic Ignition Sources & Considerations (2020)**
Dr. Vahid Ebadat, Stonehouse Process Safety
- **Introduction To Electrostatic Spark Hazards (2021)**
Dr. Vahid Ebadat, Stonehouse Process Safety
- **Equipment Options For Static Protection Related To Levels Of Protection (2021)**
Richard Puig , Newson Gale
- **Grounding & Bonding Of Flexible Intermediate Bulk Containers (2021)**
Richard Puig , Newson Gale
- **PPE & Combustible Dust - The Often Overlooked Piece Of Protection (2021)**
Derek Sang, Newson Gale

Part 3: Fire & Explosion Protection

Overview: 31 videos with 18.6 hours of material covering fire and explosion prevention, fire response preparedness, explosion protection, passive and active systems and explosion isolation systems.

Fire & Explosion Prevention (6 Videos)

- **It's The Sparks That Count - Preventive Fire Protection (2020)**
Denis Sauerwald, Mario Haas, Fagus Gre-Con
- **Oxygen Reduction & Inerting System Design (2020)**
Dr. Ashok Dhastidar, Fauske & Associates
- **Ask Me Anything: An Approach To The Implementation of Dust Explosion Prevention Program In Latin America (2021)**
Sebastian Vicco, Siecons
- **New Developments in Spark Detection and Extinguishing Technologies (2023)**
Nils Vespermann & Todd Havican / Fagus-GreCon
- **Fire Prevention Case Study: Raptor Spark Detection and Extinguishing System (2023)**
Joe Kain / Boss Products
- **New Technology and Preventive Measures for Spray Drying (2023)**
Gerrit Fikse / REMBE®

Fire Response & Preparedness (4 Videos)

- **Working Together With Firefighters & AHJs (2020)**
Glen Saraduke, Saraduke Technical Services
- **Integrating Fire & Life Safety Into Your Combustible Dust Program (2020)**
Marc Hodapp , Fire & Risk Alliance
- **Protecting Workers & Emergency Responders During Combustible Dust Fires (2021)**
Thomas Scherpa, Dupont
- **Preventing Grain Dust Explosions, Dryer Fires, And Emergency Response (2021)**
Jim Seibert, National Grain And Feed Association

Explosion Protection - General (6 Videos)

- **Explosion Protection - Safely Managing Process Changes (2021)**
David Grandaw, IEP Technologies
- **Practical Considerations When Planning & Implementing Explosion Protection (2021)**
Timothy Heneks , Dustcon Solutions
- **Artificial Inflation Of Application Ratings Of ATEX-Certified Devices (2021)**
Dimitrios Kakogiannis, Fike
- **Protected Enclosure Structural Capacity - What Do You Need To Know To Design Or Qualify An Explosion Protection System? (2021)**
Phil Parsons, Baker Risk
- **International testing of explosion protection systems: Examples and challenges (2024)**
Povl Hansen / STIF,
Nick Schlentz / Boss Products LLC
- **International standards on explosion protection systems: Challenges attaining global alignment and research-driven improvements (2024)**
Andrew Tworek & Jim Vingerhoets / Fike

Explosion Protection - Passive Systems (7 Videos)

- **Traditional & Non-Traditional Explosion Venting Options (2020)**
Jason Krbec, CV Technology
- **Explosion Suppression System Design & Example (2020)**
Jeff Mycroft, Fike
- **Comparing NFPA 68 and EN 14491 Requirements For Venting (2020)**
Marius Bloching , Jeramy Slaunwhite, REMBE
- **Key Considerations For the Application Of Flameless Venting Devices (2021)**
Markus Haeseli, IEP Technologies
- **Research & Development Of Flameless Technology For Isolation Applications (2021)**
Jason Krbec, CV Technology
Dr.Kees van Wingerden, Gexcon

- **Flameless Venting Design Requirements from Testing to Application (2023)**
Jason Krbec / CV Technology
- **How to vent when there is no space?A review of novel venting technologies (2024)**
Jason Krbec / CV Technology Inc.

Explosion Protection - Active Systems (4 Videos)

- **Detection Impact on Efficacious Explosion Isolation (2021)**
Rob Lade, IEP Technologies
- **Aluminum Dust Full Scale Suppression & Dry Chemical Isolation Test Results & How To Apply Traditional Protection Methods (2021)**
Burke Desautels, Dr. Rob Lade, IEP Technologies
- **The Dynamics Of Explosion Detection (2021)**
Rob Lade, IEP Technologies
- **Choosing Between Passive and Active Explosion Protection Solutions (2023)**
Rob Markle / IEP Technologies

Explosion Protection - Isolation Systems (4 Videos)

- **Alternative Explosion Isolation Options For Different Equipment (2020)**
Burke Desautels, IEP Technologies
- **Detection Impact on Efficacious Explosion Isolation (2021)**
Rob Lade, IEP Technologies
- **Quality Controls In ATEX Certification Testing Of Flap Valves (2021)**
Tom Farrell, Fike
- **Selection And Installation Of Flap Valves To Isolate Dust Explosion: Practical Challenges And Solutions (2021)**
Nick Schlentz, Boss Products, Pavl Hansen, Skan-Guard A/S

Part 4: Equipment, Collection & Cleaning

Overview: 41 videos with 24.6 hours of material covering system design, processing equipment, hazard monitoring systems, dust collection, dust monitoring, dust cleaning, connected systems and artificial intelligence.

System Design & Processing Equipment (2 Videos)

- **Flexible Hose Technology & Combustible Dust (2020)**
Ross Blanford, Masterduct
- **Combustible Dust Safety In Dry Bulk Storage & Equipment Applications (2020)**
Keith McGuire, CST Industries

Hazard Monitoring Systems (3 Videos)

- **Monitoring Dust Ignition Sources On Bucket Elevators (2020)**
Brian Knapp, 4B Components
- **Ask Me Anything: Hazard Monitoring For Bucket Elevators & Drag/Belt Conveyors (2020)**
Brian Knapp, 4B Components
- **Hazard Monitoring Case Study In Feed & Grain Applications (2021)**
Brian Knapp, 4B Components

Dust Collection Systems (13 Videos)

- **Avoiding Mistakes With Dust Collection Systems (2020)**
Diane Cave, Element6 Solutions
- **System Design Considerations For Handling Combustible Dust - NFPA 654 & 664 Applications (2020)**
Robert Williamson, Niels Pedersen, Nederman
- **Explosion Prevention & Protection Options For Dust Collection Systems (2020)**
Brian Richardson , Camfil APC
- **Wet Dust Collector Sizing & Installation For Metallic Dusts (2020)**
Denise Duncan, AT Industrial Products

- **Design Of On-Demand Ventilation System To Maintain Minimum Duct Transport Velocities (2020)**
Alex Litomisky, EcoGate
- **Four Question Framework To Know How To Protect Your Dust Collector (2020)**
Burke Desautels, IEP Technologies
- **Capturing Process Air: A Look At Rotary Dust Collection Systems (2020)**
Stephen Kasik, Osprey Filters
- **Dust Collection Design When Handling Explosive Dust (2021)**
Andy Thomason, Camfil APC
- **Simple Methods To Ensure Your Dust Collection System Maintains Combustible Dust Compliance (2021)**
Jack Osborne, Airdusco EDS
- **Dust Collector Replacement - Overcoming Murphy's Law (2021)**
Diane Cave, Element6 Solutions
- **Addressing Common Dust Collection & Combustible Dust Misconceptions (2021)**
Chrissy Klocker, Donaldson Company Inc.
- **Ask Me Anything: Dust Collector Explosion Prevention & Protection (2020)**
Brian Richardson, Camfil APC
- **Ask Me Anything: Enclosureless Dust Collection Systems (2020)**
Niels Pedersen, Nederman

Dust Monitoring & Cleaning (19 Videos)

- **A Practical Approach To Dust Monitoring (2020)**
John Korpi, Sintrol
- **Using Fan Systems To Control Fugitive Dust Accumulation (2020)**
Jordan Newton, SonicAire
- **Combustible Dust Compliance In Manufacturing: Industrial Hygiene, NFPA Requirements & Housekeeping (2020)**
Norman Nowosinski, Nilfisk

- **Choosing Between Central Vacuum & Portable Vacuum Systems (2020)**
Scott Boersma, Delfin
- **Industrial Vacuum Accessories & Cleaning Services (2020)**
Grant Phillips and Andy Collar, SpaceVac
- **Guidelines For Using High-Vacuum Central System To Keep Your Facility Clean (2020)**
Pablo Balan, Boss Products
- **The Essentials For Containing, Capturing, Controlling & Separating Your Combustible Dust (2021)**
Jack Osborne, Airdusco EDS
- **Effective & Safe Housekeeping: Design Fundamentals For A Central Vacuum System (2021)**
Niels Pedersen, Nederman
- **Preventing Fugitive Dust Build-Up - Mitigating the Risk & Cost of Traditional Housekeeping (2021)**
Jordan Newton, SonicAire
- **Reliable 24/7 Dust Detection In Industrial Environments (2021)**
John Korpi, Sintrol
- **On-Demand Dust Collection Control Systems Compatibility with NFPA 664 & 652 (2021)**
Alex Litomisky , EcoGate
- **Ask Me Anything: Operator Safety During Handling and Cleanup of Hazardous Dusts and Powders (2021)**
David Hakes, XP Products
- **Can You Automate Dust Safety? (2023)**
Jordan Newton / SonicAire
- **Evolution of High-Level Combustible Dust Cleaning Solutions (2023)**
Bill Prince & Frank Cruz / SpaceVac
- **Combustible Dust Remediation (2023)**
Dan Beml / Great Lakes Power Vac

- **Dust Detection as a Risk Mitigation Technique: Principles and Case Studies (2023)**
John Korpi / Sintrol
- **New innovations and options for removing fugitive dust using a conveyor belt cleaning system (2024)**
George Hutchison / CURA Engineering Solutions Corp.
- **New innovations and options for safer high-level cleaning of combustible dust (2024)**
Kevin Day / Spacevac
- **A five-year case study using dust control fans at a shipbuilding site (2024)**
Jordan Newton / SonicAire

Internet of Things & Artificial Intelligence (4 Videos)

- **How Does IOT Monitoring Technology Improve Combustible Dust Safety Systems? (2021)**
Rob Williamson, Nederman
- **Explosion Prevention Goes AI - Electronic Eyes & Nose For Early Fire Detection (2021)**
Jeremy Slaunwhite, Alexander Kemmling, REMBE
- **Use of intelligent and connected systems in fire prevention applications (2024)**
Robin Lenz / Fagus-GreCon
- **Intelligence goes Explosion Safety | Earliest Explosion Prevention by Detection and Monitoring (2024)**
Alexander Kemmling / REMBE®

Part 5: Case Studies, Incidents & Industry Assessments

Overview: 29 videos with 17.4 hours of material covering case studies, incident investigations and industry assessments in grain, food, feed, plastics, pharmaceutical, additive manufacturing, material recovery, textiles and battery manufacturing industries.

Case Studies (11 Videos)

- **Lessons Learned From Global Plant Inspections (2020)**
Francesca Vincenzi, REMBE®
- **Case Studies & OSHA Citations For Explosion Prevention & Protection (2020)**
Dr. Chris Cloney, DustEx Research Ltd.
- **Comprehensive Solutions: A Case Study from DHA to Design to Implementation (2023)**
Chris Giusto / Hallam-ICS
- **Keeping the Kibble Clean: Choosing What to do First after a DHA at a Pet Food Company (2023)**
Diane Cave / Element6 Solutions
- **Lessons Learned From Global Plant Inspections (Part II, 2023)**
Jeremy Slaunwhite / REMBE®
- **Case Studies and Fallout From Not Using a Qualified Professional - Part 1: Dust Hazard Analysis (2023)**
Kevin Cardwell / Airdusco
- **Case Studies and Fallout From Not Using a Qualified Professional - Part 2: Dust Fire and Explosion Investigations (2023)**
Kevin Cardwell / Airdusco
- **Case Study: Non-destructive evaluation to verify vessel Pred values (2024)**
Bryn Johnston / JBW Consulting Engineers
- **Beyond Compliance: Case studies of enhancing DHAs with dust collection (2024)**
Chris Giusto / Hallam-ICS
- **Case Study - Use of Computational Fluid Dynamics to complete performance-based analysis for vented and interconnected vessels (2024)**
Marc Hodapp / Fire & Risk Alliance

- **Blending geographical and dust explosion risk in a land use case study in Halifax, Nova Scotia (2024)**
Adrian Pierorazio & Parker McNeil / Jensen Hughes

Incident Investigations (9 Videos)

- **A Case of Fire & Explosion in a Vented Sawdust Silo (2020)**
Dr. Enrico Danzi, Politecnico di Torino
- **Investigation On a Flour Mill Dust Explosion By CFD Simulations (2020)**
Dr. Paola Russo, University of Roma "La Sapienza"
- **Three Incident Case Studies From Grain & Food Processing Industries (2020)**
Dr. Chris Cloney, DustEx Research Ltd.
- **Dust Explosion Case Study In A Newly-Commissioned Pharmaceutical Plant (2021)**
Dehong Kong, Princeton Safety Solutions Inc.,
- **Dust Fire & Explosion Incidents Investigation: Why ? What Can We Learn? (2021)**
Dr. Suzanne Smyth, Dr. Russell Ogle, Exponent
- **Lessons Learned From a Large-Scale Dust Explosion Incident Investigation (2023)**
Brian Dunagan / IFO Group
- **Compound Dust Explosion Disasters: A Case Study of a Plastic Plant Explosion (2023)**
Yu-Chi Cheng, Department of Occupational Safety and Health, China Medical University, Taichung. Taiwan
- **Lessons learned from large-scale dust explosion incident investigation (2024)**
Dr. Tim Myers / Exponent Inc.
- **Review, lessons learned and recommendations from the CSB investigation of the 2017 fatal combustible dust explosion at Didion Milling Inc. (2024)**
Cruz Redman / CSB

Industry Assessments (9 Videos)

- **Dramatic Decline In Number & Severity Of Grain Handling Facility Explosions (2020)**
Jess McCluer, National Grain & Feed Association
- **Understanding The Fire & Explosion Hazards Associated With Additive Manufacturing Processes (2020)**

Jason Reason, SEAM Group

- **Completing Multi-Site DHAs Across Many Locations In Food & Grain Industries (2020)**
Jeff Davis, Conversion Technologies Inc.
- **Lithium-Ion Batteries Invade The Waste & Recycling Industry Case Study: Defining Scope Of Fire Problem, Earning Stakeholders, Developing & Implementing Industry-Wide Solutions (2021)**
Ryan Fogelman, Fire Rover
- **Mitigating The Dangers Of Dust Accumulation In Material Recovery Facilities (2021)**
Dan Beml, Great Lakes Power Vac, LLC
- **Evolving Additive Manufacturing Combustible Dust Hazards & Safety Standards (2021)**
Bob Zalosh, FireExplo
- **Dust Explosion Hazards In The Textile Industries: Investigations, Testing And Open Challenges (2021)**
Dr. Enrico Danzi, Politecnico de Torino
- **Welding in the Dark: Can Fumes Really Explode? (2023)**
Rick Kreczmer / RoboVent
- **Hazard analysis and considerations for battery storage and manufacturing industries (2024)**
Alysha Yinger / Robovent,
Adam Haroz / Conversion Technology Inc.

Part 6: Combustible Dust Research

Overview: 20 videos with 12.0 hours of material covering research background and hazard analysis research, computer modeling and experimental research.

Research Background & Hazard Analysis (3 Videos)

- **An Incomplete History of Dust Explosion Research & Where We Are Today (2020)**
Dr. Chris Cloney, DustEx Research Ltd.
- **Inherently Safer Design Protocol For Process Hazard Analysis (2021)**
Kayleigh Rayner Brown, Dalhousie University
- **Using Bow-Tie Analysis To Assess Combustible Dust Hazards & Controls (2021)**
Kayleigh Rayner Brown, Dalhousie University

Computer Modeling Research (6 Videos)

- **Burning Velocity Of Hybrid Mixtures Containing Coal Dust & Methane Gas (2020)**
Dr. Chris Cloney, DustEx Research Ltd.
- **Modelling Of Corn Flour Dust Explosion Using An Open Source Code (2020)**
Dr. Chen Huang, Research Institutes of Sweden (RISE)
- **Simulating Pressure Piling In Coal Dust Explosion Using OpenFOAM (2020)**
Dr. Damilare Ogungbemi, Jensen Hughes
- **CFD Study Of The Effect Of Pipe Bending Angle On Pressure Piling In Coal Dust Explosion (2021)**
Dr. Damilare Ogungbemi, Jensen Hughes
- **Modelling Of A Vented Corn Starch Explosion Using An Open Source Code (2021)**
Dr. Chen Huang, Research Institutes of Sweden (RISE)
- **A Mallard-Le Chatelier Inspired Model for the Flame Propagation of Combustible Dusts (2023)**
Maria Portarapillo, University of Naples Federico II

Experimental Research (11 Videos)

- **Anomalous Flammability Behavior Of Dust Mixtures (2020)**
Maria Portarapillo, University of Naples "Federico II"
- **Investigation Of Marginal Explosibility in the 20-L & 1-m³ Chambers (2020)**
Albert Addo, Dalhousie University
- **Nano-Sized Solid Inertants & Their Advantage In Dust Explosion Moderation (2020)**
Yajie Bu, Northeastern University (China)
- **Dust Concentration Sensing Method Using Image Analysis (2020)**
Yumeng Zhou , Purdue University
- **Non-Traditional Dusts: What We Miss From Standard Tests (2021)**
Dr. Enrico Danzi, Politecnico di Torino
- **Fire Hazard Of Combustible Dust Layers In Process Industries (2021)**
Jingzhi Cai, Northeastern University (China)
- **Investigating The Phenomenon Of Marginal Explosibility (2021)**
Albert Addo, Dalhousie University
- **Influence Of The Pressure Difference On The Safety Characteristics Of Dust & Potential Ignition Sources For Hybrid Mixtures (2021)**
Stepan Spitzer, BAM
- **Development Of A Large-Scale Testing Rig For Experimental Investigations On The Flame Propagation In A Dust/Air Mixture Under Low Initial Turbulence (2021)**
Katja Huttenbrenner, Industrial Risk & Safety Solutions (IRIS)
- **Flame Instabilities During Explosions (2021)**
Dr. Kees van Wingerden, Gexcon
- **How Fundamental Explosion Research is Translated into Loss Prevention Guidance at FM Global (2023)**
Dr.-Ing. Lorenz R. Boeck / FM Global