

We are



Dear Wahid,

February 2023

## Process Safety Dispatch

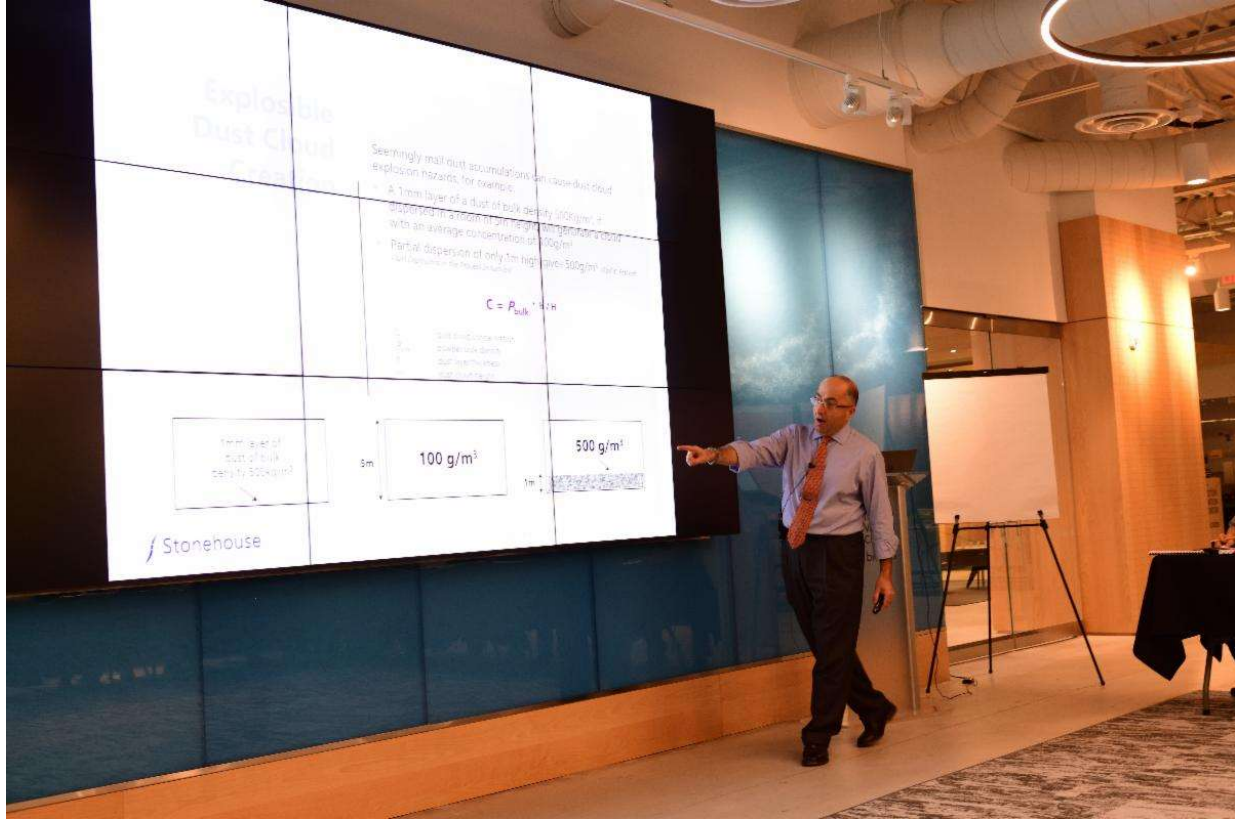
### In this Issue

- GCPS Conference - Stonehouse is presenting!
- Pyrophoric Metal Dust Publication
- Virtual live Training - EXPLODING DUSTS - Feb 21 & 22

Welcome to our latest issue of Process Safety Dispatch!

In this issue we invite you to come meet us at the AIChE **Global Congress on Process Safety** in Houston, we present a recent publication on **pyrophoric behavior of metal dusts** and remind you of your latest opportunity to study with us at our next virtual combustible dust course '**Exploding Dusts**'.

**AIChE 2023 Spring Meeting and 19th Global Congress  
on Process Safety**



Date: March 12, 2023 to March 16, 2023

Venue: Hilton Americas - Houston, George R. Brown Convention Center, Houston, TX

It's conference time of year again, and this year, the 19<sup>th</sup> Global Conference on Process Safety (GCPS), will be in Houston. Stonehouse will be there, and we would love for you to pop along to our exhibition booth 109 to say hello again, perhaps have a chat, and to talk about any current process safety issues you may have. We'll be there every day.

[Read More](#)

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## Pyrophoric Behavior of Metal Dusts

### Pyrophoric Behavior of Metal Dusts

You might recall that back in October 2022, we presented a piece in Process Safety Dispatch on a fatal blender explosion that involved zirconium powder. Since then, one of our Principal Process Safety Specialists has worked more on the topic and written a technical paper, published in Process Safety Progress. [Ref. Prugh R., Pyrophoric behavior of metal dusts, Process Safety Progress, 2023;1. doi:10.1002/prs.12435]. We recommend this paper to you, as well as the dedicated NFPA standard NFPA 484: Standard for Combustible Metals, Metal Powders, and



Metal Dusts; and we have prepared an [Introduction to NFPA 484](#) on our web site.

You might also be interested in the table below with referenced *Dos and Don'ts* when handling/processing pyrophoric metal dusts. We present the table from Richard Prugh's technical paper as an aid and encouragement for you to read his full paper in Process Safety Progress.

[Read More](#)

## Upcoming Virtual Live Training Course - Exploding Dusts - Feb 21 & 22



### Exploding Dusts

You've heard it all. NFPA 652, Dust Hazards Analysis, DHA, the brand new, game changing NFPA 660 even? You've even been and got a consultant in to do the necessary DHA. But do you want to know what to do next? Are you struggling to apply the DHA recommendations in a practical and cost-effective way? Or perhaps you are even wondering how you will arrange the mandatory revalidation and update of your DHA?

In our new live, bite-sized, virtual training course we are ready to guide you to all the answers. We'll give you all the basics, tell you about your dust explosion lab results, and what they mean and will lead you to the next steps in your dust fire/ explosion control journey from first-time DHA through to revalidation, including preventing explosions and all the plant protection methods available.

[For more info & Registration](#)

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## Other Upcoming Virtual Live Training Courses

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### Preventing Flash Fire and Explosion Hazards in Industrial Processes

March 21 & 22, 2023 – 1:00pm–4:00pm EST

Gases, vapors, aerosols, fibers, dusts and more. Our bitesize course takes you from understanding to hazards analysis, to explosion prevention and protection techniques and through to compliance with standards and guidelines. And we do this with copious doses of video and case study material built up from years of practical experiences. For more information and to register, [click here](#).

### Electrostatic Hazards in Industry

April 11 & 12, 2023 – 1:00pm–4:00pm EST

Static electricity is a devious subject. Fear not. We have it covered in this neat course designed for those who want to understand how static sparks arise in industry – and what to do to control this most elusive of ignition sources. We walk you through from the basics of the subject to help you understand where it all starts, we enthral you with new video clips of the subject, filmed in our own labs and we lay out practical options available to control static electricity on your plant. For more information and to register, [click here](#).

### Hazardous Area Classification (HAC)

May 16 & 17, 2023 – 1:00pm-4:00pm EST

You've got flammable atmospheres at your facility. You've got electrical equipment at your facility. Better make sure the two never meet! In our bitesize hazardous area classification course, we aim to have you understanding the requirements of the standards, explain good industrial practice and point you in the right direction to ensure your plant is safe from the fire and explosion hazards presented by electrical equipment. For more information and to register, [click here](#).

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### Expert Consulting

- Dust Explosion Prevention & Mitigation
- Control of Static Electricity
- Hazardous (Electrical) Area Classification
- Process Hazard Analysis
- Process Safety Management
- Fire and Explosion Hazard

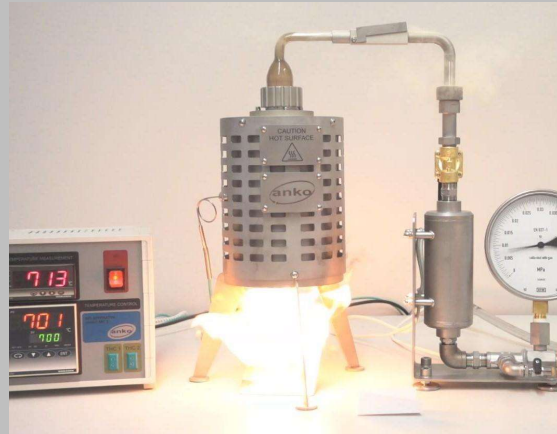




- Assessment
- Incident Investigation
- Organizational Process Safety Competency Assessment

## Specialist Laboratory Testing

- Combustible Dust Testing
- Electrostatic Testing
- Self-Heating / Thermal Instability Testing
- Flammability Testing of Gases & Vapors



**REQUEST A QUOTE**

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Stonehouse Process Safety | 11D Princess Rd, Lawrenceville, NJ 08648

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