

We are



Hello,

January 2022

## The Stonehouse Journey and Links to Technical Articles

As we pass our 4<sup>th</sup> anniversary at Stonehouse Process Safety, we once again find ourselves overawed by your kind comments, best wishes and support for what we are trying to achieve in Process Safety. We are often asked about how it all started, what we are trying to achieve, and what's coming up next. In this issue of Process Safety Dispatch our CEO, Vahid Ebadat, 'spills the beans'! We also provide you with easy (catalogued) access to last year's Process Safety Dispatch articles, in case you want to start the year with a technical boost to your process safety knowledge – or simply read about topics that are relevant to you now.



*A message from our CEO:*

As many of you know, Stonehouse Process Safety Inc, began with a germ of an idea from a small group of process safety seniors, sitting round a table together in Princeton, NJ; that was Fall, 2017. We believed then that there was a space for a new kind of process safety company. One that was **customer focused, highly responsive, practical with its advice, and cost-effective to engage**; and one that strived for the highest levels of **quality**, where we could share with you our lifetime of knowledge, experience, and passion for process safety!

The Stonehouse Process Safety seed was planted.

Since then, Stonehouse has grown into a professional process safety company of highly knowledgeable and experienced consulting engineers supported by our world-leading, testing laboratory which is accredited to the **ISO 17025:2017 Standard** Every year we are adding new equipment and bringing in expert staff to meet your needs. This month alone we are joined by new laboratory staff and 2 very senior process safety consulting colleagues – all to keep our delivery and response times **fastest in class** and to ensure we have the broadest and **highest level of technical expertise** available to our clients. We continue our quest for improvement in everything we do and we believe from your comments, best wishes, and support that we continue on the right track. Of course, we are humble enough to know that there is **always** room for improvement – and we sincerely ask for your feedback to help us make Stonehouse Process Safety grow and evolve to meet **all** your process safety needs in the years ahead!

Please let us have your ideas for how you think process safety services at Stonehouse should develop next and how we can improve [here](#).

As for the **future**, there are changes afoot in the NFPA landscape of standards that cover dust explosions.

There is work going on with [NFPA 652](#), [654](#), [655](#), [664](#), [61](#), and [484](#) towards a new consolidated combustible dust standard to be numbered [NFPA 660](#). As a committee member, I'm actively involved providing technical input to the technical committees for some of these standards and will be reporting to you in future editions of Process Safety Dispatch on all things that may affect our readers.

The Stonehouse team and I look forward to working with you again in 2022.

Best wishes,

Vahid Ebadat, Ph.D.  
CEO

## Free of charge, online technical guidance and advice

Our monthly Process Safety Dispatch is part of our attempt to inform, inspire, and entertain with an easy-to-read style, offering expert observation and guidance on all things process safety. We know it is popular with our clients and followers. In 2021 we began to introduce some [videos](#) to our newsletter, on 'static sparks from people' and on 'ignition risk from portable electrical equipment'. In the past 12 months we have also covered several topics in **Explainers** – an occasional series for those looking for a clear explanation of important concepts in process safety. We have covered differences between flammable and combustible, between fires and explosions, and between flash point and auto-ignition temperature. We also covered key industrial explosions with a view to learning lessons - something from which we can all benefit.

In 2021 we were honoured when one of our Process Safety Dispatch articles was picked up by the scientific press and published as a cover story by Willey in the reviewed journal, '**Process Safety Progress**'. You can find that article, 'COMPARED: A Solvent Vapor Explosion in Germany & a Combustible Dust Explosion in the United States', see the published article [here](#).

For your convenience we have catalogued the last 12 months Process Safety Dispatch articles and provided links to our various 2021 articles below.

### Dust Explosions

[Why I have NOT had my powders tested to determine their Explosion and Fire Properties](#)  
[Dust Collector – friend or foe? A Lesson in Dust Explosion Safety](#)  
[Combustible Dust: Sampling for Dust Combustibility Testing](#)  
[Your Dust Hazard Analysis \(DHA\) Questions Answered](#)  
[Combustible Dust – 10 NFPA Codes and Standards!](#)

### Flammability

[What are flammable and combustible liquids?](#)  
[COMPARED: A Solvent Vapor Explosion in Germany & a Combustible Dust Explosion in North America](#)  
[Nitrogen Gas to Prevent Explosions and Fires; Nitrogen Gas as a Killer](#)  
[So, What Exactly Exploded? Hybrid Mixtures](#)

### Process Safety

[What is the difference between a fire and an explosion?](#)  
[What is the difference between Process Safety and Occupational Safety? – and does it matter?!](#)  
[Process Safety, Hindenburg Airship Disaster, a Mule, a Yach - WHAT DO THESE 4 THINGS HAVE IN COMMON?](#)

### Static Electricity

[Explosion Prevention by Eliminating Sources of Ignition](#)  
[Static Electricity Safety: Making sense of Volume Resistivity, Surface Resistivity, and Charge Decay Time](#)  
[So how do people become electrostatically charged in an industrial setting? – A lesson in static electricity](#)

### Classifying Hazardous Areas

[Hazardous Location Classification: Electrical Equipment in Flammable Atmospheres](#)  
[Portable Electronic Devices in Hazardous Locations](#)

## Explainers

What is the difference between a fire and an explosion?  
What are flammable and combustible liquids?

## Videos



## 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



If you would like a quote for any of our testing and/or consulting services, please click on the button below. We will get back to you promptly with your proposal.

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