

EFCE SpotLight Talks

Working Party on
Static Electricity

21 November
2022

14:00 • 16:00

CET



ELECTROSTATICS RISKS IN INDUSTRY: Hazards due to Electrostatic Charges

Static Electricity is present in many industrial processes, very often unnoticed, until something happens surprisingly, normally a spark apparently coming from nowhere. In many situations this represents an unacceptable risk. In other occasions electrostatic charges make difficult material processing and handling or produce damages such as in the case of electronic components. Static Electricity is often misunderstood due to its complex nature. It is not easy to identify neither the generation process nor its dissipation or accumulation mechanisms.

In this Webinar we will focus on the risks of static electricity in industrial real situations. There are never enough lessons learned from incidents in industry. Francesco Restuccia will present the results of a huge report on electrostatic incidents in industry during a decade (2010-2020). Anders Thulin will describe a practical case of a dust explosion in a sulphur silo where a good knowledge of electrostatic processes was needed. And finally, Alexis Pey will focus on the charging of powders in vessels with flammable atmospheres, a common problem not well covered by standards.

PROGRAM

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| 14:00 | Welcome and introduction
Pedro Llovera – Chair of the WP on Static Electricity
Giorgio Veronesi, EFCE President |
| 14:10 | Static Electricity Incident Review (2010-2020)
Francesco Restuccia, King's College London, London - UK |
| 14:40 | Dust explosion in sulphur silo
Anders Thulin, ATC AB, Saltsjöbaden - Sweden |
| 15:10 | Charging powders in vessels with flammable vapour atmospheres: risks, measurements and modelling
Alexis Pey, Waalwijk - The Netherlands |
| 15:40 | Conclusion
Pedro Llovera, Energy Technological Institute, Polytechnic University of Valencia - Spain |

Registration

free of charge but mandatory

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