$\mathsf{EMEA} \ \mathbf{2015}$ SAFETY IN ACTION CONFERENCE

Day 1 WEDNESDAY, 21st OCTOBER

THE 1ST PROCESS SAFETY TRACK

A UNIQUE EVENT CAPTURING AND DISTILLING DECADES OF PROCESS SAFETY EXPERIENCE FROM ACROSS EUROPE IN TWO THOUGHT-PROVOKING DAYS OF PRACTICAL PROCESS SAFETY KNOWLEDGE EXCHANGE.

8h40 - 9h20 Consistent Approaches to Process Safety and HSE Management

Nigel Atkinson (Head of Process Safety, Syngenta)

Much has been said about the differences between process and operational/ occupational safety, particularly after the 2005 Texas City incident. However, in most companies the same people are responsible for managing both. Corporations and individual sites need both PSM and HSE management systems and must clarify where they merge or where they differ. This presentation will summarise Syngenta's PSM/ HSE journey and current approach.

9h20 - 10h00 Considerations on ignition sources: Are they really free of charge? Carsten Blum (DEKRA EXAM)

Trevor Kletz once said that ignition sources are the only thing we get for free in the chemical industry. In many respects this is true, but what he did not mention was that many ignition sources have cost a lot of money to introduce e.g., motors, high speed rotating equipment etc.! What he meant was that ignition sources can be very deceptive and difficult to identify and avoid in practice. Despite this, many process equipment items are operated where reliance to prevent a devastating explosion is solely based on avoidance of sources of ignition. By examining some of the more illusory ignition sources and myths surrounding them, this talk explores whether or not it is really possible to establish an explosion basis of safety completely reliant on avoiding them.

DEKRA Insight

BST

Chilworth RCI

10h30 - 11h15 Ensuring the competitiveness and sustainability of innovative projects by addressing process safety issues

Joseph-Marc Francois

Many incidents occur during the research and development stage of a project. At this stage, the production unit is a "laboratory bench": while small amounts of materials are involved, the consequences may be serious if the materials are capable of releasing substantial quantities of energy. In addition to halting a project, an incident can be devastating to the life of a new product or technology, potentially leading to loss of leadership for the effort along with loss of spent investment.

This presentation outlines the elements of an effective process safety management system to better support innovative projects. Beginning with a look at a number of case studies of pilot plant incidents, attendees understand the need for a robust process safety culture based on culture and competence. These concepts are the cement needed to integrate all aspects of process safety management within the organization and to build an effective process safety management system.

11h15 - 12h Seveso Regulations in Europe: Are we consistent? The impact of Process Safety Performance & Decisions

Albert Pons & Nigel Allen

The EU Seveso Directive (latest version: Directive 2012/18/ EU or "Seveso III") gives some freedom to member states on how to apply its requirements. This has led to member states and even regions within states adopting different

implementation strategies; including the level of detail required in the safety report, how to approach major accident risk assessment and risk tolerability/acceptability criteria. This session aims to highlight the differences in implementation across the EU, and hence the challenges presented to multi-national companies; for example, when trying to apply corporate process safety management systems.

14 - 15h30 Workshop #1: Pitfalls in Process Safety Data Collection Steve Rowe

Process Safety Information is a cornerstone for excellence in process safety performance. Still, many people get it wrong. This presentation is designed to outline the available mechanisms for data collection and to discuss the common pitfalls and inadequacies that undermine otherwise sound PSM systems.

16h - 17h30 Workshop #2: Learning from Incidents Yann Grevillot

This workshop shows why major (and less severe but recurrent) industrial incidents, such as fires, explosions, and toxic releases continue to happen despite existing safety management systems.

Using a series of questions following a factual description of real industrial incidents, this presentation helps attendees examine:

- What went wrong? What do we do to prevent these incidents?
- Why should we study past incidents /near misses?
- How can we build an organisational memory?

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Day 2 THURSDAY, 22nd OCTOBER

8h30 - 9h15

KEYNOTE:

Future Trends in Process Safety John Bresland (former Head of CSB)

Based on lessons learned over a 35-year career in the chemical industry, and 10 years as a Board member and Chairman of the United States Chemical Safety Board, Mr. Bresland presents his thoughts on the key factors for developing a world-class process safety program.

9h15 - 9h45 Maintaining and managing process safety competence in oil & gas industry

Dirk Roosendans (Head of Technological Risks - Total RC)

"When it comes to safety, a lot of focus is put on leadership, commitment and exemplarity. However, a key ingredient of process safety management is the availability of highly qualified professionals in that area. In this presentation, the principles of effective competence management are highlighted and its application to the main of process safety is explained. Challenges related to successful process safety management are discussed and some examples are given for illustration".

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10h15 - 11h 'Professional Process Safety Engineer' registration: IChemE's response to a societal imperative for competent practitioners in process safety

Neil Atkinson (Director Qualifications IChemE)

There is a worldwide shortage of engineers with expertise in the field of process safety engineering. Moreover, there is general concern (including among regulators) that some who claim to be 'safety' engineers do not have the requisite breadth or depth of competence to operate professionally in the field of process safety. Unlike occupational safety, there is no recognised professional standard of process safety engineering excellence.

This presentation demonstrates how IChemE is establishing an international professional engineer registration based on a robust standard that defines process safety engineer competences.

11h15 - 12h30 Human Factors in Process Safety: Panel

Seb Blair (DEKRA Insight), Paul Leonard (ARKEMA), John Bresland (former Head of CSB) and Rear Admiral (retd) Paul Thomas (CB FREng FCGI CEng)

Industry has made tremendous strides in workplace safety over the past 30 years. A myriad of systems and practices now allow organizations to create an accurate picture of risk, design better equipment and build more precise interventions to address exposure from both a people safety and process safety perspective. However, numerous accounts of serious and catastrophic events show it is the ability for individual contributors (employees and contractors) to detect and respond to real-time changes in risk, that is critical to assuring safe outcomes. Even in organisations with great safety performance, it is common to see employees struggle to recognise changes in exposure or respond to developments that could lead to an incident, as people can become desensitised to the subtle changes in exposure they work with every day.

This session explores how Human Factors, behavioural reliability, and individual exposure detection and response is critical to a comprehensive and sustainable approach to excellent safety performance.

13h45 - 14h30 12 years of ATEX: Doing the right things while saving on compliance Maria Cabrelles

After 12 years of ATEX, there is still room for improvement. Our experience shows that the most important point is to establish and sustain a coherent and consistent strategy for the prevention of explosions. To fulfill the ATEX requirements there is no single pathway. On the contrary, one of the goals of the directives is to allow different companies to arrive at the same objective applying different measures. Therefore, it is of great importance that companies learn (with a deep technical knowledge) to apply this European legislation characteristic to their own sites in a cost effective manner increasing at

14h45 - 16h Workshop #3: Process Hazard Analysis Best Process Safety Management Practices & Pitfalls *Arturo Trujillo & Mauro Gotti*

the same time the safety of their employees and sites.

Join us for a refreshing session on HAZOP best practices that engages audience members in real HAZOPs exercises. PHAs (HAZOP et al.) are widely recognized as powerful tools for identifying hazards and evaluating risks. On the other hand, PHAs are quite expensive, requiring the undistracted attention of a significant group of experts. Therefore, it is of utter importance that these exercises are conducted in a cost-effective manner. Along our professional lives we have compiled a "PHA gallery of horrors" including several categories of errors and pitfalls, extending from planning to follow-up phases. In this workshop, attendees engage in real PHA exercises to learn some of these pitfalls and mistakes and learn ways to best prevent them.

All sessions and schedules are subject to change.

Attendance to the Process Safety track on the 21st and 22nd of October is included in the conference registration fee.

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