hazardex LIVE 2025

Harrogate - UK - February 26th-27th

PROTECTING PLANT, PROCESS & PERSONNEL

EVENT GUIDE

OPENING TIMES

Wednesday 26th February 2025
08:30 - 17:30

Thursday 27th February 2025
09:00 - 15:30

Diamond Event Sponsor:

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hazardex LIVE 2025
Harrogate - UK - February 26th-27th

Hazardex Live 2025

The essential business forum for everyone involved in the safe and efficient operation of hazardous area plant and equipment

Editorial Notes

These notes contain details of the papers presented at Hazardex Live 2025, held at the Majestic Hotel, Harrogate, 26-27 February 2025.

Each author has supplied the organisers with a biographical profile and a summary of the paper.

The views expressed in these papers are those of the authors and do not necessarily represent the views of either IML Group plc or any of the Event Sponsors. Copyright for each paper is retained by the author and IML Group, and any reproduction is prohibited without their prior written consent.

These notes also contain essential background information on the accompanying exhibition, including a floorplan for the event and exhibitor details.

Opening times

Wednesday 26th February		**Thursday 27th February**	
Registration & Exhibition open	**08:30**	Registration & Exhibition open	**09:00**
Conference opens	**09:15**	Conference opens	**09:30**
Lunch	**13:00**	Lunch	**12:45**
Conference closes	**17:15**	Conference closes	**15:15**
Exhibition closes	**17:30**	Event closes	**15:30**
Drinks reception & dinner	**18:00 till late**		

Please take time during the event to visit and speak with exhibitors and we hope you enjoy Hazardex Live 2025!

... the Hazardex team

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Welcome to Hazardex Live 2025

To make your participation at Hazardex as easy as possible, we have compiled the following information which covers basic hotel, venue and event details. For any further information, speak to the organisers at the Conference Reception Desk. Please enjoy the exhibition and we wish you a successful and useful conference.

Event Venue: Majestic Hotel, Ripon Road, Harrogate, HG1 2HU, United Kingdom
Hotel reception Tel: +44 (0) 1423 700300

Exhibition and Conference: The Exhibition will be taking place in the hotel's **Carriage Suite**. **Conference Venues:** Stream 1 will be taking place in the **Billiard Room** and Stream 2 will be in the **Reading Room**.

Gala Awards Dinner: The dress code for the Gala Dinner is business suit or relaxed formal (ties optional). The drinks reception will be held in **Fredrick's Piano Bar** from 18:00. Dinner will commence at 19:30 in the **Ballroom**.

Products & Services: Please take time to view the Exhibition during your lunch and refreshment breaks. The companies represented are all leading suppliers of equipment and services for hazardous areas and should be able to assist you with any query you may have. Exhibitor contact details can be found at the back of this Conference Pack.

Check-In: You will be able to check into your room any time from **15:00** on the day of arrival. A swipe of your credit card will be taken upon checking-in, so that any extras can be charged to your room and settled upon departure.

Check-Out: All guests must vacate their hotel rooms during the morning of 27 February (or day of departure) by **11:00**. Any extra costs must be settled with your hotel upon departure. Please leave sufficient time to check out as it may be very busy and could reduce your time in the conference.

Taxis: These can be ordered from the Main Reception of the hotel.

Event Sponsor

Hazardex Live 2025 Diamond Event Sponsor

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We look forward to meeting you at our stand and presenting our safety culture solution!

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hazardex LIVE 2025

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C&P CAN SUPPORT YOU WITH YOUR EX INSPECTION REQUIREMENTS

We understands the world of potentially explosive gases, vapours and combustible dust atmospheres is ever changing and becoming even more challenging.

C&P will be exhibiting and making a Presentation at Hazardex 2025 at the Majestic Hotel Harrogate HG1 2HU From the 26th to 27th February.

Dewi Evans, Senior Hazardous Area Project Manager at C&P, will be giving a presentation on hazardous areas and the challenges and tribulations of ensuring equipment is maintained to the required standards, verifying the competencies of employees for designated tasks and preserving a safe working environment. Legacy and Equipment part II.

Please Contact **jack.westcott@cpengineering.co.uk** for a **FREE ENTRY PASS** into this event and come and visit us on Stand 33 to discuss your Hazardous Area Requirements.

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Check www.hazardex-event.co.uk for the latest updates

DAY 1 – 26TH FEBRUARY 2025

Stream 1
Billiard Room (Delegates only)

08:30 – 09:15	**Registration, Refreshments & Exhibition Viewing**
09:15 – 09:20	**Chair's introduction**
09:20 – 09:50	***The key steps to understanding competency in hazardous areas*** Huw Bement, Managing Director – CompEx
09:50 – 10:20	***Hazardous Area Inspections: Trials and Tribulations – Part 2: Legacy Equipment*** Dewi Evans, Hazardous Area Operations Manager – C&P Engineering Services
10:20 – 10:50	***Planning for success – the importance of a flexible, risk based, efficient planning system to deliver Net Zero*** Simon Wood, Environment, Health, and Safety Specialist – Fuels Industry UK
10:50 – 11:30	**Refreshments, Networking & Exhibition Viewing**
11:30 – 12:00	***Through the pendulum of area classification*** Michelle Du Preez, Explosion Prevention Practitioner – Sasol
12:00 – 12:30	***UK REACH developments*** Elaine McGavin, Regulatory Lead – Chemical Business Association (CBA)
12:30 – 13:00	***Regulatory expectations for DSEAR compliance in the nuclear sector*** Michelle Smith, Nuclear Site Health & Safety Inspector – Office for Nuclear Regulation (ONR)
13:00 – 14:00	**Lunch, Networking & Exhibition Viewing**
14:00 – 14:30	***Automating cumulative risk in barrier models*** Dr. Ed Bailey, Process Safety/Technical Safety Team Lead – Ithaca Energy
14:30 – 15:00	***An innovative approach to risk assessment for combustible dusts*** Dr. Andrzej Wolff, Managing Director – Grupa Wolff
15:00 – 15:30	***Flameless explosion venting for combustible dust*** Jim Vingerhoets, Explosion Safety Consultant – Fike UK
15:30 – 16:15	**Refreshments, Networking, & Exhibition Viewing**
16:15 – 16:45	***How to protect against concurrent and consequential hazards – service sealing in the nuclear industry*** Gavin Cornall, Global Segment Manager – Roxtec
16:45 – 17:15	***Area Classification Standards – which one should we use?*** Tal Hopkins, Director – Vital-Ex

Stream 2 – Sponsored by TÜV Rheinland
Reading Room (access open to all registered attendees)

08:30 – 11:30	**Registration, Refreshments & Exhibition Viewing**

Delegate – full access to both Conference Streams, lunch on both days, seat at the Gala Dinner & Hazardex Awards evening

Free attendance – access to exhibition & Conference Stream 2 **ONLY**

11:30 – 12:00	***Safety culture: the power of habits*** George Bradley, Global Manager for Safety Culture – TÜV Rheinland
12:00 – 12:30	***Risk based inspection and repurposing pressure equipment for hydrogen duty*** Andy Fisher, Senior Inspection Engineer – TÜV Rheinland
12:30 – 13:00	***Management of Change: reflecting upon incidents, audits and gap analyses*** Graeme Laughland, Principal Process Safety Consultant – TÜV Rheinland
13:00 – 14:00	**Lunch, Networking, & Exhibition Viewing**
14:00 – 14:30	***Ransomware resilience in high-hazard industries*** David Allen, Cyber Security Consultant – TÜV Rheinland
14:30 – 15:00	***Qualitative approaches are still relevant for risk assessment in a digital world*** Conal Brown, Senior Consultant – TÜV Rheinland
15:00 – 15:30	***IEC61511 and independence of BPCS layers in SIL Assessment*** Stephen Beedle, Principal Process Safety Consultant – TÜV Rheinland
15:30 – 16:15	**Refreshments, Networking & Exhibition Viewing**
16:15 – 16:45	***An insight into where Process Safety encounters Machinery Safety*** Suresh Sugavanam, Principal Consultant – TÜV Rheinland
16:45 – 17:15	***Making sense of EC&I ageing and obsolescence*** William Hair, Principal INTM Consultant – TÜV Rheinland

17:30 Exhibition closes
18:00 Drinks
19:30 Gala Dinner, Hazardex Awards 2025, and Entertainment
22:30 Drinks

Timetable

Running order subject to change
Check www.hazardex-event.co.uk for the latest updates

DAY 2 – 27th FEBRUARY 2025

Stream 1
Billiard Room (Delegates only)

08:30 – 09:30	**Registration, Refreshments & Exhibition Viewing**
09:30 – 10:00	***Ex Equipment and Ex Components – requirements for marking and nameplates*** Dr. Martin Thedens, Chair of IEC TC31 & Head of PTB Department 3.6 – IECEx / PTB
10:00 – 10:30	***Buncefield 20: Learning the lessons from the Buncefield explosions and fires in 2005*** Peter Davidson, Executive Director – Tank Storage Association (TSA)
10:30 – 11:15	**Refreshments, Networking & Exhibition Viewing**
11:15 – 11:45	***Hazards and understanding in the energy transition*** James Steven, Senior Principal Engineer – DNV
11:45 – 12:15	***Employing the Responsible Care Initiative to build sustainable future generations of talent*** Edward Platt, Responsible Care Programme Lead & Heather Carroll, People & Skills Hub Lead – Chemical Business Association (CBA)
12:15 – 12:45	***Using robust inspection history to develop a risk-based approach to ongoing inspections*** Bob Banks, Hazardous Area Technical Authority – Dron & Dickson
12:45 – 13:45	**Lunch, Networking & Exhibition Viewing**
13:45 – 14:15	***Update on the IGEM/TD/2 standard*** Karen Warhurst, Senior Principal Consultant – DNV / Institute of Gas Engineers & Managers
14:15 – 14:45	***New technologies for gas detection*** Abd Elrahman Afifi, Process Safety Engineer – National Gas
14:45 – 15:15	***DSEAR and HAC for hydrogen road vehicles*** David Rees, Principal Engineer – TÜV Rheinland Risktec Solutions

Stream 2 – Sponsored by TÜV Rheinland
Reading Room (access open to all registered attendees)

08:30 – 09:30	**Refreshments, Networking, & Exhibition Viewing**
09:30 – 10:00	***Final element proof testing – What can go wrong?*** Colin Bartliff, Senior Consultant & Suresh Sugavanam, Principal Consultant – TÜV Rheinland
10:00 – 10:30	***Is good, good enough for Process Safety?*** Gary Lumbard, Senior Process Safety Consultant – TÜV Rheinland
10:30 – 11:15	**Refreshments, Networking, & Exhibition Viewing**
11:15 – 11:45	***Managing ageing assets and the role of DSEAR compliance in process safety*** Jon Wallis, EC&I Compliance Lead & Graham Doggett, Hazardous Area Consultant – ECFIO
11:45 – 12:15	***Protecting lone workers from stress, isolation, and violence*** Michelle Smith, Regional Sales Manager – Blackline Safety
12:15 – 12:45	***Key considerations for emergency response for COMAH-regulated sites*** Bruce Holcombe, Commercial Director – Media & Crisis Management Ltd
12:45 – 13:45	**Lunch, Networking & Exhibition Viewing**
13:45 – 14:15	***Guidelines for preparing equipment for maintenance and return to service*** Roger Stokes, Principal Engineer – BakerRisk
14:15 – 14:45	***Routes to hazardous area certification – a collaborative approach to challenging Ex protection projects*** Alex Brady, Explosion Protection Specialist & Martha Carillo, Certification & Consultancy Manager – Expo Technologies
14:45 – 15:15	***Your RPE may be appropriate but is it suitable?*** Ian Kelsall, Respiratory Protection Equipment (RPE) BDM – Draeger UK

15:30 ***Event closes***

Event Sponsor

Hazardex Live 2025 Event Sponsor

C&P ENGINEERING SERVICES
Hazardous Area E&I Design & Engineering

C&P Engineering Services
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Tel: +44 (0) 1792 897002
Email: info@cpengineering.co.uk
Web: http://www.cpengineering.co.uk

C&P Engineering Services, through its integrated electrical, control and instrumentation disciplines, design, construct and deliver complete projects and provide maintenance services to companies throughout the UK and internationally.

For over 50 years, C&P has been supporting customers and delivering performance-driven solutions to local, national and global industry within the oil & gas, chemical, water, nuclear, pharmaceutical, steel, process manufacturing, renewable energy and industrial markets.

The company's EC&I engineering services deliver complex, high profile and critical solutions. They offer 'cradle to grave' services across project life-cycles, from assisting with conceptual FEED studies and providing detailed design, through to installation, construction, commissioning, testing, documentation and supporting activities.

C&P is looking forward to exhibiting at Hazardex Live 2024 and the team will be on hand to discuss the company's services, which can be combined to provide the total EC&I engineering solution, or divided into the following design, build, operation and maintenance, consultancy, CompEx electrical and industrial training services:

- Hazardous Area ATEX Inspections, Design, Engineering & Consultancy
- Low Voltage Electrical Design & Engineering
- Control & Instrumentation Design & Engineering
- Safety Instrumented System Design & Engineering – IEC 61508, IEC 61511
- Functional Safety Management Consulting
- Project Management – Principal Contractor
- Sectors and Case Studies
- CompEx Electrical & Industrial Training Services

As an official Schneider Electric Partner, C&P Engineering Services offer process instrumentation products and engineering solutions for Pressure, Temperature, Flow, Level, Process Analytical, PH & ORP Measurement, Valve Positioners and Wireless Technology, all of which are supported through the company's design & engineering solutions to complement the Schneider Electric Process Instrumentation product range.

Please contact us if you require any further information or have an enquiry regarding any of our services.

Awards

Hazardex Awards 2025

Awards Sponsors:

A total of 16 nominees have been shortlisted across four categories for the Hazardex Awards 2025, designed to recognise excellence in the hazardous area sector. As always, this year's winners will be announced during a Gala Dinner at the end of the event's first day on 26 February at the Majestic Hotel, Harrogate.

The Hazardex Awards programme has long been a benchmark for those supplying products, services and systems within hazardous areas and are the ideal opportunity to reward those companies and individuals that Hazardex readers believe are most worthy of recognition. The awards offer Hazardex readers the ability to play their part in raising awareness and standards across the sector by nominating a company, product or service, entering their vote, and encouraging colleagues to do likewise.

The Awards are presented following an informal, very well attended Gala Dinner in the evening of the event's first day where delegates, speakers, and exhibitors network over a three-course meal and drinks. Together with the Conference and Exhibition, the Gala Dinner and Awards evening aim to strengthen and expand the community that looks to the Hazardex website and journal for industry intelligence and information.

All the nominees have made a significant contribution in the relevant area within process industry or hazardous area operations over the last two years.

Visit www.hazardex-event.co.uk after the conclusion of Hazardex Live 2025 to find out about this year's winners!

Voting rules:

*** 1.** The competition is open to all Hazardex journal, eNewsletter and website readers and users
*** 2.** Voters register their votes by fully completing all fields and **use an email from a business address only**
*** 3.** Voters are **limited to one vote per category**
*** 4.** Nominees are **not permitted to vote for their own company/organisation**
*** 5.** All votes will remain confidential

Category 1: ***Contribution to Safety – Sponsored by CEF***
A product, system or service which has made a significant contribution to safety in hazardous area environments.

a. Blackline Safety – *EXO 8* - portable area monitor
b. Excen – ATEX and IECEx industrial forklifts
c. Expo Technologies – *SmartPurge Z* - purge & pressurization system
d. FLIR – *Si2x-Series* - acoustic imaging cameras

Category 2: ***Technical Innovation – Sponsored by C&P Engineering Services***
An innovative product or system for use in hazardous area environments.

a. Arnlea Systems – *Nexar* - Ex inspection software
b. Cobic-Ex – *Cobic-Ex F112 LT* - explosion proof laptop
c. Phoenix Contact – *FL SWITCH APL 2224-4A-213-PA* - industrial Ethernet switch
d. Terrington Data Management – *Transform* - ATEX asset inspection software

Category 3: ***Net Zero Innovation – Sponsored by Metrohm***
An innovation for hazardous environments that helps lower emissions and carbon footprints.

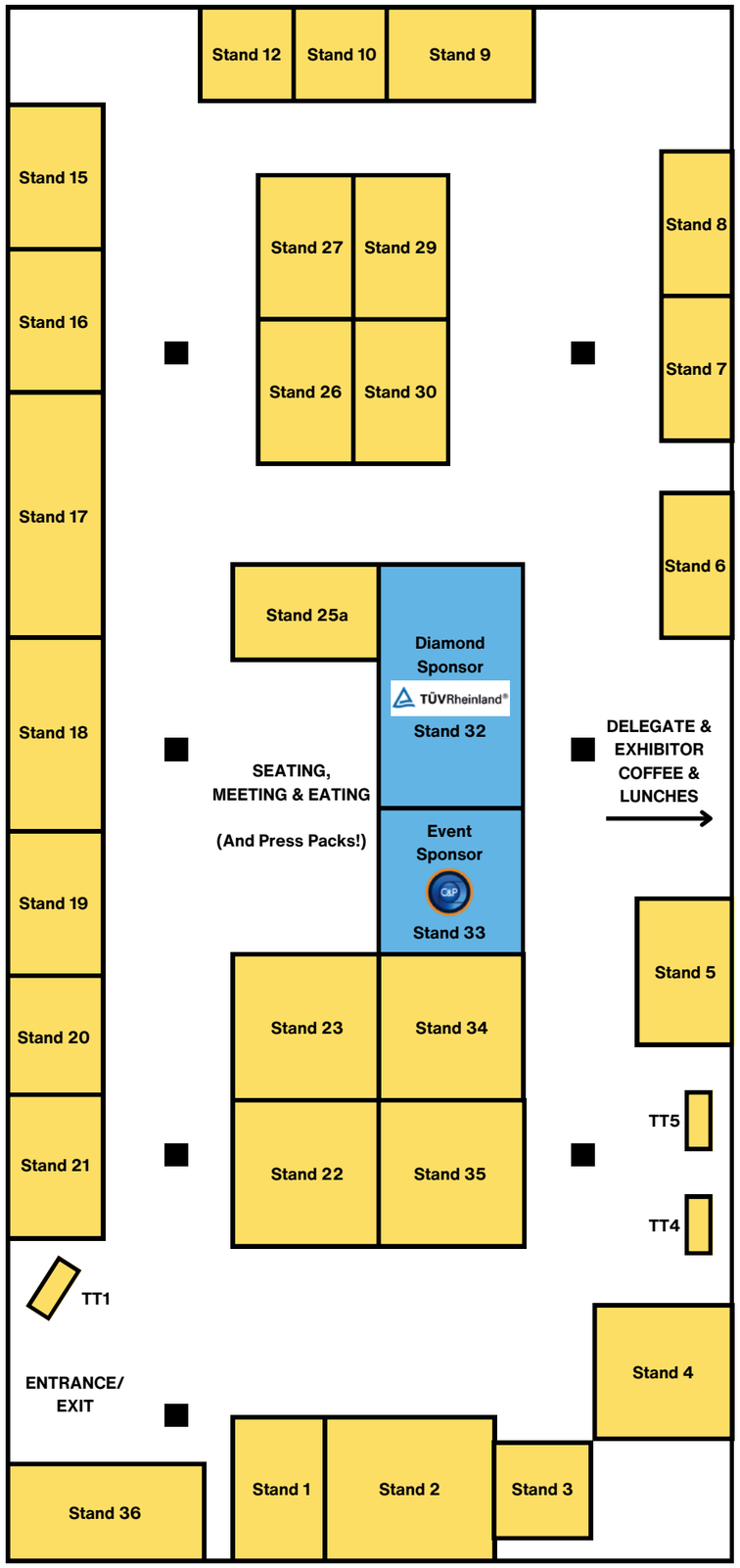
a. Gexcon – *FLACS-CFD* - 3D CFD tool for hydrogen applications
b. MSA Safety – *Observer® i Gas Leak Detector* - acoustic detector
c. ONIS – *ONIS Line Blind* - designed to address hydrogen risks
d. Raytec – *SPARTAN* - lighting used on world's first hydrogen-powered passenger ferry

Category 4: ***Customer Service – Sponsored by TÜV Rheinland***
A company or corporate division that has provided excellent customer service in the sector over the last two years.

a. i-ingenuity
b. Kwerk GmbH
c. Respirex International
d. Semmco LPS

Follow Hazardex on LinkedIn for future news about the Hazardex Awards!

Floorplan



Stand #	Exhibitor
1	CYGNUS INSTRUMENTS
2	METROHM
3	STL INTERNATIONAL
4	SEMMCO LPS
5	CCG
6	MUTECH
7	PRATLEY
8	SPACEVAC INTERNATIONAL
9	EXLOC INSTRUMENTS
12	Eigen
10	DERWENT TRAINING
15	SCAME
16	ROXBY TRAINING SOLUTIONS / F.E.S. (EX)
17	PEPPERL + FUCHS
18	KWERK
19	SMART ACTUATED VALVES / DYNAMIC CORPORATION LTD
20	TERRINGTON DATA MGMT
21	COMPEX
22	ROXTEC
23	CEF (CITY ELECTRICAL FACTORS)
25a	EA Technology
26	BEKA associates
27	NEWSON GALE
29	LEWDEN
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Hazardex Live 2025 Chair Profiles

Conference Chair – Day 1, Stream 1

Paul Hague, Technical Director – CompEx Certification

Paul Hague *is the Technical Director for CompEx Certification Limited. With over 30 years of 'Ex' industry experience, Paul has technical responsibility for the CompEx qualifications portfolio, ensuring that they meet international standards and reflect industry best practice. He also has overall responsibility for operations and quality assurance activities.*

Paul writes a column for Hazardex every other month in which he shares his views and perspective on the world of standardisation. So far, he has discussed the newly published 6th Edition of the IEC standard 60079-14 and the changes from the previous edition, as well as the impact of the updated IEC 60079-17 standard over the last 12 months. You can read these articles now on the Hazardex website. Be sure to subscribe to the Hazardex magazine and eNewsletter to receive his future column's directly to your inbox.

Conference Chair – Day 2, Stream 1

Tal Hopkins, Director – Vital-Ex

Tal Hopkins *is Technical Director and MD at Vital Ex Engineering Ltd and has over 30 years' experience delivering turnkey EC&I projects in COMAH establishments and high hazard industries. In addition to undertaking Hazardous Area Classifications and DSEAR Risk Assessments, Tal is a qualified CompEx Peripatetic Instructor and TUV certified Functional Safety Expert.*

Hazardex Live 2025 Conference Presentations

1. The key steps to understanding competency in hazardous areas

Wednesday – 09:20 – Billiard Room

Huw Bement, Managing Director – CompEx

Huw Bement *has a background in a range of sales, marketing, product development and commercial roles. He has worked at board level in industries including construction, renewables and FMCG. More recently he has been involved in developing temporary hybrid energy systems, and digital asset monitoring for UK and international customers. Huw joined CompEx in January 2020 and as Managing Director his focus is on the delivery of world class qualifications, developing digital capability and increasing the international reach of the scheme.*

Abstract:
Competence in hazardous areas is critical for ensuring safety, maintaining asset integrity, and meeting regulatory requirements. Competence as defined in IEC 60079 standards will be considered, emphasising the essential components of knowledge, skills, behaviours, and experience. It will also address a common misconception between occupational health and safety, and the prevention of major incidents.

The session will delve into the benefits of competence from a corporate perspective. Key challenges such as complacency, corporate amnesia, and normalcy bias will be explored. The presentation will conclude with an overview of some practical considerations and the actions that can be taken to embed competency in safety critical operations.

2. Hazardous Area Inspections: Trials and Tribulations – Part 2: Legacy Equipmentandards

Wednesday – 09:50 – Billiard Room

Dewi Evans, Hazardous Area Operations Manager – C&P Engineering Services

***Dewi Evans** is a hazardous area specialist who has over twenty-five years of hands-on experience while working with a variety of different customers in various industries. As well as advising clients on Hazardous areas, Dewi also teaches several different CompEx courses at C&P Engineering's purpose-built training centre in Swansea. Dewi provides practical advice to help students and has a real-world insight and understanding of the types of issues that might occur whilst working onsite and operating in potentially hazardous working environments.*

Abstract:
Carrying out hazardous area inspections of assets in modern facilities can be challenging, even when initial inspection documentation is available. However, inspecting older 'legacy' equipment often presents unique challenges. Familiarity with historical standards can be advantageous, considering the requirements of the standards in effect at the time of installation can be important. Applying modern standards retrospectively to older installations may not always be appropriate. In this presentation, Dewi Evans will explore these considerations and other key aspects of hazardous area inspections.

3. Planning for success – the importance of a flexible, risk based, efficient planning system to deliver Net Zero

Wednesday – 10:20 – Billiard Room

Simon Wood, Environment, Health, and Safety Specialist – Fuels Industry UK

*As Environment, Health and Safety Specialist, **Simon Wood** provides Fuels Industry members with expert advice on regulatory developments for environmental, process safety and occupational health and safety topics across the downstream oil sector. Simon Joined in January 2020 having previously gained experience with EDF Energy and the British Standards Institution developing and deploying strategies to deliver consensus through improved stakeholder understanding during negotiations.*

Abstract:
The UK fuels sector, like much of the industrial base, is undergoing a seismic shift in its processes and operations made necessary by the net zero targets. As plans are put in place to make the needed investment that can manage our emissions while keeping operations economic, the planning and permitting regimes come into starker focus as potential enablers, but also potential hurdles for operators.

Well-publicised shared concerns about planning for access to grid power will be felt by refineries and terminals, right down to those who want to provide EV charging facilities. But there are already other examples where companies are exploring new technologies but are finding that planning consents or changes to existing permits are making an already difficult transition, still more challenging.

This presentation will explore examples where reducing environmental impacts may not be possible with zero or falling impact on sites and those which neighbour them, and the balance which may need to be struck to develop the UK's lower carbon manufacturing sector. We will consider emerging barriers to investment and consider the ways that operators can work with regulators to deliver sustainable – both economically and environmentally – solutions.

4. Through the pendulum of area classification

Wednesday – 11:30 – Billiard Room

Michelle Du Preez, Explosion Prevention Practitioner – Sasol

Michelle Du Preez *is an explosion prevention practitioner for the Hazardous Location Centre Sasol South Africa. She has 15 years of experience in petroleum environment. In 2021 her focus shifted to apply her knowledge in electrical engineering, safety management and project management to the field of explosion prevention.*

Abstract:

The topic of blanketing or not blanketing within hazardous areas is a pendulum that has swung from one side of "no classification" where people were oblivious of the concept, to the other extreme of blanketing where they say: "classify as much as you can". From what I see is that currently industries prefer the blanketing approaches due to some uncertainties. This presentation will discuss what blanketing is and how it impacts businesses and the impact on human behaviour that it has. It will also discuss accurate classification and the impact and possible gains and losses when looking at human behaviour.

5. UK REACH developments

Wednesday – 12:00 – Billiard Room

Elaine McGavin, Regulatory Lead – Chemical Business Association (CBA)

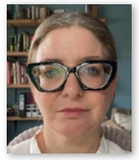
Elaine McGavin *is the Regulatory Lead at the Chemical Business Association and has more than 20 years' experience within the chemical industry. She is passionate about chemical regulation and has worked in various sectors including lubricants, catalysis, R&D and supply chain. In her current role she leads on UK REACH, CLP, PFAS and supports and advocates for members on regulatory issues.*

Abstract:
The UK left the European Union at the end of 2020 with the UK REACH regulation was been enacted into UK law. Since then, it has been subject to a number of deadlines for action, revisions to legal aspects and a myriad of guidance following questions raised by industry. There is still a large degree of confusion as to what to do and how to do it.

This presentation will help answer any questions surrounding the regulation and help you stay updated with the latest developments.

6. Regulatory expectations for DSEAR compliance in the nuclear sector

Wednesday – 12:30 – Billiard Room



Michelle Smith, Nuclear Site Health & Safety Inspector – Office for Nuclear Regulation (ONR)

Michelle Smith *is a Nuclear Site Health and Safety (NSHS) Inspector within the Nuclear Internal Hazards and Site Safety (NIHSS) specialism at the Office for Nuclear Regulation (ONR). She graduated from the University of Nottingham with a degree in Chemistry of Materials and started her career as a Health and Safety Executive (HSE) Inspector in 2001, inspecting various industries, including major hazard sites; and working on policy across the chemical industry. In 2009, Michelle relocated to Australia, where she worked as an Accident & Fraud Investigator for WorkSafe Victoria, a state regulatory body. After taking a career break, she joined ONR in 2019 and has since dedicated the past four years to inspecting Sellafield Limited. Michelle has a particular interest around learning from normal work, organisational culture, and human factors.*

Abstract:
Michelle Smith, a Nuclear Site Health and Safety Inspector at the Office for Nuclear Regulation (ONR) will be presenting on the Regulatory Expectations for DSEAR Compliance in the Nuclear Sector.

Michelle will delve into the legal and regulatory aspects of DSEAR, outlining ONR's nuclear site health & safety strategy and detailing regulatory expectations as applied during inspection, investigation, and enforcement. Michelle will highlight potential pitfalls and their causes, supported by accident examples, "learning from normal work" and leading indicators.

7. Automating cumulative risk in barrier models

Wednesday – 14:00 – Billiard Room

Dr. Ed Bailey, Process Safety/Technical Safety Team Lead – Ithaca Energy

Dr. Ed Bailey *has over thirty years' experience in risk management, specializing in Process Safety Management, and has extensive operational & project expertise. He is well versed in regulatory compliance with direct experience of safety case production and has detailed knowledge of technical safety, both quantitative risk analysis and qualitative assessment.*

Abstract:

Recent publications by OEUK discuss the implications of abnormal conditions on an offshore installation and particularly for those controls deemed as safety critical and what constitutes effective governance, as the law demands suitable and sufficient risk assessment. This is particularly relevant for SECE which have clearly defined performance standards and may fail to meet the requirements of the relevant standard, resulting in a deviation. In such scenarios, the default position is to manage the risk until the situation is resolved by stopping or restricting operations. Continued operation may be temporarily possible if additional controls are put in place and the risk demonstrated to be maintained at an ALARP level - such a process is termed an ORA.

If the safety critical control is operating in such a manner that its safety critical functionality is unaffected, or within the bounds allowed by its performance standard, then an Operational Risk Assessment is not required and the SECE is termed degraded, otherwise impaired.

With reference to an ORA, critical aspects include:
- When is an ORA required?
- How to perform an ORA
- Measuring the performance of the ORA process

This paper analyses a particular SECE, namely the gas detection system, using a sophisticated approach termed risk-based gas mapping to determine the status of the system by comparing its operation against a quantitative PS and introduces a more sophisticated method (based on FRAM) to look at the SECE system.

8. An innovative approach to risk assessment for combustible dusts

Wednesday – 14:30 – Billiard Room

Dr. Andrzej Wolff, Managing Director – Grupa Wolff

Dr. Andrzej Wolff *received his doctorate in technical sciences, specializing in chemical engineering, from Cracow University of Technology in 1978, where he was awarded the Third Degree Award of the Minister of Higher Education. In 1987, he earned his habilitated doctor degree in system engineering from Warsaw University of Technology's Institute of Chemical and Process Engineering. His academic career includes positions as Visiting Assistant Professor at Brown University, Research Associate at Queens University, and Humboldt Foundation scholarship recipient at the University Erlangen-Nuremberg. Until 2002, he was a faculty member at the Cracow University of Technology Institute of Chemical Engineering. In 1994, he founded GRUPA WOLFF, where he has conducted more than 350 explosion risk assessments, delivered ATEX safety audits and trainings for more than 100 industrial companies, and presented at numerous technical conferences. In addition, his early career included training at PKN Orlen S.A. and extensive work in the field of process equipment protection.*

Abstract:

Current techniques for assessing the risk of explosion are generally based on arbitrarily accepted quantities and a subjective assessment of the situation. The author has concluded that a new approach to risk assessment is needed. He proposes the AW-OZ approach, which allows a quantitative assessment of the process and explosion hazards of typical process equipment and installation for processing bulk materials containing combustible and explosive dusts. The approach is based on process data and takes into account the design and operating conditions of the equipment and installations, as well as the possible presence of typical ignition sources. It follows the provisions of Article 4 of the ATEX USER directive on explosion risk assessment.

9. Flameless explosion venting for combustible dust

Wednesday – 15:00 – Billiard Room

Jim Vingerhoets, Explosion Safety Consultant – Fike UK

***Jim Vingerhoets** has been with Fike since 2007 and is currently an Explosion Safety Consultant for Fike Europe. Based in Fike's European office in Herentals, Belgium, Jim is an active working member of European Standardization Committee CEN TC 305 WG3. He has coordinated multiple research activities and equipment qualification tests at several international test sites and lectures regularly on the subject of dust explosion protection.*

Abstract:
This presentation focuses on the critical differences between flameless explosion venting of combustible dust explosions using flameless vent devices with dust retention screens versus those without. Flameless explosion venting is a vital safety measure in process industries where combustible dust poses an explosion risk. Devices with dust retention screens offer the added benefit of containing particulates, reducing contamination risks and mitigating the release of hazardous dust into surrounding areas. In contrast, flameless vent devices without such screens allow for particulate release, potentially increasing dust dispersion in the external environment which in turn may lead to a secondary dust explosion outside of the protected process equipment.

The presentation will delve into how the presence or absence of a dust retention screen impacts the hazardous area classification around the flameless vent. We will discuss how dust containment influences the extension or contraction of hazardous zones, particularly in ATEX-regulated environments, where maintaining safe distances is crucial. By examining real-world scenarios and experimental data, this presentation aims to provide a comprehensive understanding of how these design variations affect explosion mitigation strategies and zoning requirements, guiding industry professionals in selecting the appropriate venting solutions for their specific applications.

10. How to protect against concurrent and consequential hazards – service sealing in the nuclear industry

Wednesday – 16:15 – Billiard Room

Gavin Cornall, Global Segment Manager – Roxtec

***Gavin Cornall**, Global Segment Manager at Roxtec Group, possesses a keen interest in various facets of energy construction, particularly within the realms of nuclear, and renewable industries. With a rich background of collaboration with esteemed companies worldwide, he brings extensive experience to the table when working with safety critical applications. Having worked across a spectrum of safety sealing requirements, ranging from new builds to operational nuclear facilities, fuel and waste storage, and decommissioning projects, he boasts a comprehensive understanding of service sealing in a multihazard environment.*

Abstract:
This presentation will explain how to protect traditional and new nuclear power facilities from multiple hazards by securing all cable and pipe penetrations in line with IAEA safety guides. Global Segment Manager Gavin Cornall is co-author of Roxtec's technical paper entitled "How to Protect Against Concurrent and Consequential Hazards". Step by step, and hazard by hazard, this presentation will explain why they recommend standardization with seals in separation barriers, walls, floors, and cabinets throughout any nuclear facility.

11. Area Classification Standards – which one should we use?

Wednesday – 16:45 – Billiard Room

Tal Hopkins, Director – Vital-Ex

***Tal Hopkins** is Technical Director and MD at Vital Ex Engineering Ltd and has over 30 years' experience delivering turnkey EC&I projects in COMAH establishments and high hazard industries. In addition to undertaking Hazardous Area Classifications and DSEAR Risk Assessments, Tal is a qualified CompEx Peripatetic Instructor and TUV certified Functional Safety Expert.*

Abstract:
Area classification is a specialist activity to be undertaken only by competent persons, ideally as part of a team of engineers, operators and process safety professionals, using one or more of the multitude of national and international standards that have been published in this field. In this short presentation, Tal will discuss the key differences and the merits of the three dominant area classification standards used in the UK, namely IGEM/SR/25, EI15 and IEC60079-10-1, and the importance of ensuring due consideration is given when determining the most appropriate standard for the application in question.

12. Safety culture: the power of habits

Wednesday – 11:30 – Reading Room

George Bradley, Global Manager for Safety Culture – TÜV Rheinland

***George Bradley** is Global Manager for Safety Culture at TÜV Rheinland. With 25 years of experience, George is an expert in creating and developing sustainable safety cultures for multinational companies in all industries. He supports TÜV Rheinland as the UK Country Manager for its Occupational Health and Safety business and has direct responsibility for the training of all consultants.*

Abstract:
This presentation will discuss safety culture and present some case study examples of how employees can identify unsafe working practices. All employees have the power to protect themselves and others. Did you know that 85% of accidents are caused by unsafe working habits and negligent safety behaviour? This presentation discusses case study examples of how employees identify unsafe working practices and risks, and how to develop safety rules they understand and implement. TÜV Rheinland is an independent provider of testing, inspection, certification and consultancy services. More than 20,000 experts around the globe work for TÜV Rheinland Group.

13. Risk based inspection and repurposing pressure equipment for hydrogen duty

Wednesday – 12:00 – Reading Room

Andy Fisher, Senior Inspection Engineer – TÜV Rheinland

Abstract:
Pressure Equipment such as vessels, tanks and piping systems require in-service inspection to ensure they are suitable for continued operation and for regulatory compliance. To ensure effective inspection takes place, each item of pressure equipment needs a Written Scheme of Examination (WSE) in place. These WSEs define exactly how the inspection should be performed, including the type/location of Non-destructive testing and frequency of examination. The aim is to ensure the integrity of equipment throughout their asset lifecycle and identify how the item may deteriorate in-service – and detect degradation before failure occurs.

Risk Based Inspection (RBI) is a process for identifying how equipment will can deteriorate in-service, the likelihood and degradation rates and the most appropriate examination techniques – the output is a better WSE. RBI can be used for existing in-service equipment or for new or modified equipment. Different material/design combinations can be assessed at an early stage to help select the most appropriate configuration for long term asset integrity. This presentation will look at how TÜV Rheinland used RBI and its experience in completing RBI assessments for repurposing of pressure equipment to hydrogen duty and the lessons learnt.

14. Management of Change: reflecting upon incidents, audits and gap analyses

Wednesday – 12:30 – Reading Room

Graeme Laughland, Principal Process Safety Consultant – TÜV Rheinland

***Graeme Laughland** is a Fellow of the Institution of Chemical Engineers and a Professional Process Safety Engineer with more than 37 years of practical experience in plant operations and process safety management. He has led over 300 hazard studies / PHAs (mainly HAZOP), conducted PSM audits and Deep Dive Assessments in Europe, USA, the Middle East and India and has run > 100 training courses on PSM, Hazard studies / PHAs, Process Safety Management Leadership, Management of Change, Human Factors, Process Safety Information and RAGAGEP, PSM Auditing, Process Safety Performance Indicators and Deep Dive Audits and Assessments. His consultancy experience covers oil, gas, chemicals, petrochemicals, power, pharmaceutical and bio-fuel industry sectors.*

Abstract:
The topic of Management of Change (MoC) continues to be a concern for the process industries line management. Of all the process safety management topics it is the most likely to keep people awake at night. Why, well because they are directly responsible for the changes made “on their watch”. Incidents continue to occur as a result of the inadequacies in companies MoC systems or in the ineffective application of such systems. This is clearly illustrated by the incidents such as at BayerCrop Science and Williams Geismar as investigated by the USA’s Chemical Safety Board. The topic of MoC was central to the disaster at Flixborough in 1974 and contributed to a significant number of fatalities at Texas City in 2005. What’s stopping industry from preventing such disasters? Given the amount of change likely to occur related to the Energy Transition are more Major Accidents just waiting to happen? Are we planting seeds for future generations to reap? Could emerging technologies play a part in helping us become more efficient and effective in managing change?

For topics such as HAZOP and Safety Instrumented Systems there are international standards such as IEC 61882 and IEC 61511/61508. Industry has given a strong focus to implementing IEC 61511/61508, often influenced by the regulator. Whilst in many countries there are regulatory requirements covering the topic of management of change there is not a universally applied MoC standard within the process industries. Should we await the next industrial disaster to create such a standard or should we start making that change now? Conversely, should individual countries such as Canada lead the way in implementing new PSM standards? The Canadian Standards Association issued a PSM standard in February 2017. This paper highlights some key deficiencies found in the application and design of MoC systems as discovered through incident case studies, auditing and gap analyses conducted on this topic.

15. Ransomware resilience in high-hazard industries

Wednesday – 14:00 – Reading Room

David Allen, Cyber Security Consultant – TÜV Rheinland

***David Allen** is the UK OT Cyber Security Team Leader within TÜV Rheinland Industrial Services. He is a Chartered Engineer with over 16 years of experience specializing in Industrial Automation, David has played a pivotal role in every phase of project management, from consulting to after-care services. As a certified Cyber security specialist and course tutor on the TÜV Cyber security training courses, he has made significant contributions to many sectors globally, including Oil & Gas, Chemicals, Energy, and Offshore assets.*

Abstract:

As we enter 2025, ransomware continues to pose a critical threat to high-hazard industries, where operational disruptions can have catastrophic consequences. Despite advancements in cybersecurity, sophisticated ransomware groups like **LockBit** and **Black Basta** remain dominant, evolving their tactics to evade defences and increase their leverage over victims.

These groups employ multi-extortion strategies, not only encrypting data but also threatening to publicly release sensitive information and disrupt operations unless substantial ransoms are paid.

Companies affected by these attacks often face difficult decisions, balancing the need for rapid recovery with the potential long-term costs of paying ransoms.

Understanding these dynamics is essential for high-hazard industries to strengthen their defences and improve resilience against one of the most pervasive cyber threats of the decade.

This paper leads to highlights some of the ransomware risks you may know along with some of the pitfalls companies make, which you can look to avoid.

16. Qualitative approaches are still relevant for risk assessment in a digital world

Wednesday – 14:30 – Reading Room

Conal Brown, Senior Consultant – TÜV Rheinland

***Conal Brown** is a Senior Consultant with TÜV Rheinland Industrial Services. He is an experienced practitioner involved in improving maintenance, reliability and integrity management for a wide range of companies across the chemical, oil and gas industries.*

Abstract:

Engineers love numbers! We spent years at school, college and university learning how to manipulate them. Numbers give precision to our analyses and clarity to our thoughts. Machines love numbers too! Information about industrial facilities can be encoded into numbers and fed into Artificial Intelligence models to automate risk assessments and increasingly make decisions autonomously. Quantitative risk assessment and analysis may therefore seem like the future in a world of artificial intelligence tools and ubiquitous data.

A precise number, however, can mask significant uncertainties. In hazard and risk assessment it is critical to understand the uncertainties and other limitations associated with the information used in analysis. Otherwise, we may make decisions with either false confidence or undue conservatism.

This paper argues that there is still a place for qualitative methodologies in risk assessment, especially where there are substantial data gaps and uncertainties. In such a scenario, risk assessment is as much about the process of reaching consensus around uncertainty as it is about the final output. Better to have a qualitative assessment that is mutually understood to be only roughly right, than a quantitative one that is precisely wrong. Quantitative risk assessments are especially problematic when they are generated by ‘black box’ tools and the sensitivity of the result to uncertainties in the risk model and input data are poorly understood. Criticality and vulnerability assessment is used as an example to advocate for the continued relevance of qualitative approaches.

17. IEC 61511 and independence of BPCS layers in SIL Assessment

Wednesday – 15:00 – Reading Room

Stephen Beedle, Principal Process Safety Consultant – TÜV Rheinland

***Stephen Beedle**, is a Principal Consultant in the Process Safety Group, working in the areas of risk assessment, SIL and COMAH. Stephen is an accredited SIL and hazard study leader and has been a course tutor on the TÜV Hazard Study Leaders and Advanced SIL courses for several years.*

Abstract:

This presentation looks at the need for independence in terms of the Basic Process Control System when carrying out SIL assessments. This requirement is defined in IEC 61511 which essentially says the BPCS can appear in a SIL assessment, such as a Layer of Protection Analysis, as an initiating event or an independent protection layer, but not both at the same time. Rigorous enforcement of this requirement has major implications for process safety, sometimes demanding higher-reliability SIFs – but at what cost?

We'll cover practical ways to ensure this independence, including best practices for Layer of Protection Analysis (LOPA) and common challenges during assessments. Real-world examples will show how these changes affect site safety strategies and system design. Attendees will gain a clearer understanding of how to meet these requirements, ensuring compliance and effective risk reduction. This presentation is ideal for safety professionals and engineers adjusting to regulatory changes in the application of functional safety standards.

18. An insight into where Process Safety encounters Machinery Safety

Wednesday – 16:15 – Reading Room

Suresh Sugavanam, Principal Consultant – TÜV Rheinland

***Suresh Sugavanam** is the Functional Safety, Alarm and Hazardous Area Management Lead for TÜV Rheinland Industrial Services and is an approved TÜV Rheinland Expert in Functional Safety & Cyber Security. He is a member of The IET, BSI GEL 65 standards committees (for IEC 61508 MT, IEC 61511 MT & IEC 62443) with over 25 years of experience in the provision of Functional Safety & Cyber Security Consultancy, as well in provision of consultancy solutions for Automation Projects for the Process Industries. In his current role, Suresh is responsible for managing the consultancy & training solutions for Functional Safety & Security Management, Alarm Management and Hazardous Area Management businesses for TÜV Rheinland customers worldwide.*

Abstract:

Within process industries, there is a common ambiguity when risks are being assessed such that, risks related to the process may be included as part of the review and the relevant IEC 51511 risk assessment process would be applied, whereas, for any process that involves the use of a machinery, the risks are assumed to be assessed against the machinery safety standard and not part of the process safety standard. Process engineers consider such process with machinery to be outside the boundaries of process risk assessments, and vice versa with the machinery engineers. Therefore, in many cases there is a risk of negation of risk assessments for these processes.

Organisations that are part of the supply chain constituting a safety related system are mandated to comply with the respective international Functional Safety Standards for process safety and machinery safety such as IEC 61508, IEC 61511, IEC 62061, ISO 13849 and IEC 12100. These standards ensure that the activities and the outcome of the specific phases of the functional safety lifecycle comply with all the requirements.

This paper will specify the requirements from both the process safety and machinery safety for compliance and will provide the recommended methodologies for the appropriate standards to be followed when both applications have both process and machinery safety solutions to be implemented.

19. Making sense of EC&I ageing and obsolescence

Wednesday – 16:45 – Reading Room

William Hair, Principal INTM Consultant – TÜV Rheinland

William Hair *is an Integrity Management Principal Consultant with TÜV Rheinland Industrial Services. He is a Chartered Electrical Engineer and has worked at TÜV for over 8 years primarily in the Oil & Gas sector as an Electrical, Control (Industrial Automation) & Instrument specialist. William is also a Certified Safety Engineer TUV FS Eng, Complex EX 14 Responsible Person and Lean Six sigma Black Belt. Prior to joining TÜV, William worked globally in numerous sectors including Power Generation, Paper Industry, and Metals processing holding various roles in Corporate Manufacturing, Engineering Management and Asset Reliability.*

Abstract:

It is incumbent on duty holders of high hazard sites to demonstrate that the threat to the integrity of safety critical equipment is actively managed over the plant lifecycle. As well as the onerous requirements of BS EN 60079-17, and SIF Proof Testing, ageing and obsolescence must also be effectively managed with a balanced mitigation strategy.

A key aspect of a safety management system (SMS) framework is the adoption of risk-based asset integrity and inspection principles which among other criteria would include equipment ageing and assets which may have exceeded their design life. The use of an existing detailed EX asset register and SIF register can be fully leveraged as part of the development of an obsolescence study risk assessment. The TUV heat map and story on a page methodology provides an easy to follow (for all stakeholders) visual assessment to enable targeted, data driven, effective risk mitigation against the threats from ageing and obsolescence.

20. Ex Equipment and Ex Components – requirements for marking and nameplates

Thursday – 09:30 – Billiard Room

Dr. Martin Thedens, Chair of IEC TC31 & Head of PTB Department 3.6 – IECEx / PTB

Dr. Martin Thedens *is the Chair of IEC TC 31 "Equipment for explosive atmospheres", as well as Head of PTB-Department 3.6 "Explosion Protection in Sensor Technology and Instrumentation", Head of Sector 1 "Explosion Protection and Shooting Devices" of PTB's Conformity Assessment Body, Chair of DKE K241 "Explosion Protected Electrical Equipment" (DE mirror to IEC TC 31), and the Immediate Past Chair of ExNBG (official group of the European Commission for the ATEX Notified Bodies).*

Abstract:

The Ex standards issued by IEC TC 31 "Equipment for explosive atmospheres" include requirements for the marking and for the nameplate of Ex Equipment and Ex Components. In theory, it is easy to define Ex Components; but in reality, the use of such components is a little bit more complex and creates a lot of confusion on the market. And even the practical use of Ex Equipment, such as junction boxes, can cause unsafe solutions.

This presentation will guide you through the requirements for the marking code and discuss if it is needed to reduce the marking code. Finally, the presentation will discuss good and/or bad examples and talk about the latest developments in Europe. Maybe we can solve the question: "What is a legible and indelible marking?".

21. Buncefield 20: Learning the lessons from the Buncefield explosions and fires in 2005

Thursday – 10:00 – Billiard Room

Peter Davidson, Executive Director – Tank Storage Association (TSA)

***Peter Davidson** is Executive Director of the Tank Storage Association (TSA) which represents the interests of over 45 companies who operate around 300 terminals in the UK or provide equipment and services to the sector. Peter joined TSA following 10 years as the director of Safety, Commercial & Projects at the UK Petroleum Industry Association. Previous to this, Peter managed the Safety Automation Group for ABB in the UK.*

Abstract:
The Tank Storage Association's Executive Director, Peter Davidson, will be presenting at Hazardex Live 2025 about the Buncefield explosions and fire. 20 years on from the major oil storage fire, Peter will be discussing what the industry has done in response to the incident, the lessons learnt and how these have been applied, as well as what we still have to do as an industry to ensure another incident such as Bucnefield never happens again.

22. Hazards and understanding in the energy transition

Thursday – 11:15 – Billiard Room

James Steven, Senior Principal Engineer – DNV

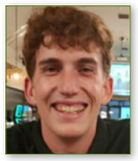
***James Steven** is an electrical and electronic engineer with over 25 years' experience of dealing with hazardous environments and applications. Having worked across the consumer, energy storage, maritime, oil & gas and nuclear industries has provided a wide range of experience being able to draw upon the best practices across these sectors. He now holds the role of Business Development & Growth Manager at DNV UK Ltd where he leads the Business Development and New Service/Application Development for the low carbon supply chain markets. He has been key in developing DNVs strategy and standards for hydrogen and hydrogen derivates.*

Abstract:
With the need to accelerate the transition to low carbon energy, there is a vast number of new developments taking place in the UK and globally. Although many technologies used are not new, the application of hazard management and ensuring safety, as well as regulatory compliance, is key to avoid any incidents which can damage the role out the scaling of alternative energy systems.

Looking at a selection of technologies around hydrogen (and derivates), energy storage systems and carbon capture, the session will look at some of the main hazards from these as well as challenging some of the perceptions in the industry up how to manage these. This is aimed at all areas of the market from project developers, supply chain and users/service suppliers and what these hazards mean to different stakeholders.

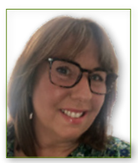
23. Employing the Responsible Care Initiative to build sustainable future generations of talent

Thursday – 11:45 – Billiard Room



Edward Platt, Responsible Care Programme Lead & Heather Carroll, People & Skills Hub Lead – Chemical Business Association

***Edward Platt** leads the CBA's Responsible Care Programme. Following the completion of his doctorate in sustainability assessment, he joined the Chemical Business Association as their first dedicated Responsible Care Lead. The Responsible Care Programme advocates for continuous improvement with regards to Health, Safety, Security and Environmental performance within the chemical industry, combining my interests in performance analytics, sustainability, and operational excellence.*



***Heather Carroll** has over 25 years of experience in the chemical industry and is passionate about education, mentorship, and inspiring the next generation of talent. As the People & Skills Hub Lead at the Chemical Business Association, she focuses on connecting industry needs with education to create and meaningful career opportunities. Through initiatives like Generation STEAM, Heather works to showcase the chemical sector as an exciting and inclusive place to build a career, encouraging people from all backgrounds to explore diverse pathways and challenge preconceptions about the industry.*

Abstract:
Responsible Care is the chemical industry's commitment to continual improvement in health, safety, security and environmental (HSSE) performance. It is a global initiative. In the UK, Responsible Care covers the whole of the chemical supply chain – from manufacturers, through to distributors and logistics companies. Compliance with Responsible Care is expected for all CBA member companies involved in the trading, distribution, handling, movement and storage of chemicals. This presentation will look at employing the Responsible Care Initiative to help build sustainable future generations of talent for the UK's chemical industry.

24. Using robust inspection history to develop a risk-based approach to ongoing inspections

Thursday – 12:15 – Billiard Room

Bob Banks, Hazardous Area Technical Authority – Dron & Dickson

***Bob Banks** is Hazardous Area Technical Authority at Dron & Dickson Ltd. He has 24 years' experience supporting hazardous areas compliance worldwide, including major FPSO construction projects, onshore and offshore operational energy hubs, pharmaceuticals, and food & drink industries.*

Abstract:
Risk scoring as an input to developing a risk-based inspection strategy often focusses solely on the equipment and the installed environment. Bob will present a case study demonstrating implementation of a risk-based inspection strategy for equipment installed in potentially explosive atmospheres where robust inspection data has been used to accurately define the ignition risk profile and optimise the site inspection strategy.

25. Update on the IGEM/TD/2 standard

Thursday – 13:45 – Billiard Room

Karen Warhurst, Senior Principal Consultant – DNV / Institute of Gas Engineers & Managers

*An experienced safety engineer, **Karen Warhurst** has worked within the oil and gas industry since 2002 providing a wide range of safety related services. Particular areas of technical expertise include: Quantified Risk Assessment (QRA) of onshore pipelines and sites, Development of risk assessment methodologies and mathematical models, Consequence modelling of dispersion, fires and toxic hazards, Carbon Capture and Storage (CCS) safety studies, Major hazards large-scale testing, and Application of safety-related codes and standards.*

Abstract:

IGEM publishes a range of technical standards that are widely used throughout the gas industry including IGEM/TD/1 “Steel pipelines for gas transmission” and IGEM/TD/2 “Assessing the risks from high pressure gas pipelines”. Edition 1 of IGEM/TD/2 was published in 2008 in response to the increasing use of Quantitative Risk Assessment (QRA) techniques to assist operators in managing the risks from high pressure natural gas transmission pipelines. A substantially revised Edition 2 of IGEM/TD/2 was published in 2013. Since publication of Edition 2 in 2013, several areas where it would be useful to refine and extend the guidance in IGEM/TD/2 and to capture recent developments were identified in the light of experience. This presentation describes the key changes in Edition 3 of IGEM/TD/2. The revised code, and its content, is considered to represent the current UK best practice for QRAs of high pressure natural gas transmission pipelines.

26. New technologies for gas detection

Thursday – 14:15 – Billiard Room

Abd Elrahman Afifi, Process Safety Engineer – National Gas

***Abd Elrahman Afifi** is a Chemical Engineering Graduate from Aston University. Currently a graduate engineer with National Gas Transmission, he started in September 2023 and is undertaking three 6-month placements in Investment and Process, Process Safety Engineering, and Innovation & Hydrogen. He is currently in his final placement and moving to process safety engineering after the completion of the graduate scheme.*

Abstract:

This presentation will discuss gas detection and the methods and equipment that are used to locate and minimise gas emissions and leaks. Abd will look at the advantages and disadvantages of current technology, such as point detectors, before discussing National Gas Transmission’s research projects on the use of various gas detection systems and technologies that can be used as we move towards a hydrogen-blend and 100% hydrogen future. In particular, Abd will look at MethaneTrack™ which is a system that enables emissions and leak reduction by accurately detecting, locating and quantifying gas leaks and emissions.

27. DSEAR and HAC for hydrogen road vehicles

Thursday – 14:45 – Billiard Room

David Rees, Principal Engineer – TÜV Rheinland Risktec Solutions

David Rees *is a Principal Engineer at TUV Rheinland Risktec Solutions and has over 17 years' experience providing safety and risk consultancy for high hazard industries. He leads safety and risk studies including facilitating HAZID, HAZOP, Bowtie and ALARP assessments, and has extensive knowledge of producing safety cases to recognised standards including COMAH and the Offshore Safety Directive. David is also experienced in DSEAR and ATEX compliance and the development of hazardous area classification calculations and drawings for a range of industries within the UK and Europe.*

Abstract:

Society's drive to move away from fossil fuels has led to transport service providers seeking ways to future proof their fleet. Whilst electric vehicles are filling the market for private and light vehicles, hydrogen vehicles are leading the way in the decarbonisation of heavy vehicles, including public road transport. This has resulted in a large number of companies and sites being exposed to risks they previously would not have faced with diesel vehicles, and regulations that until now they may not have had contact with. One such statute is the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR).

Implementation of DSEAR and Hazardous Area Classification (HAC) for hydrogen road transportation is not especially different from any other industry. However, the inherent mobility of a road going vehicle, and hence the hazard, poses a new kind of risk for hydrogen vehicles. Once a vehicle leaves site and enters onto public highways, DSEAR doesn't strictly apply. But DSEAR is applicable on site, so how can you apply it to a mobile hazard?

This presentation will discuss the application of DSEAR and HAC at a facility not originally intended for hydrogen, considering not just the storage of hydrogen vehicles but also their maintenance, refuelling and cold venting.

28. Final element proof testing – What can go wrong?

Thursday – 09:30 – Reading Room

Suresh Sugavanam, Principal Consultant & Colin Bartliff, Senior Consultant – TÜV Rheinland

Suresh Sugavanam *is the Functional Safety, Alarm and Hazardous Area Management Lead for TÜV Rheinland Industrial Services and is an approved TÜV Rheinland Expert in Functional Safety & Cyber Security. He is a member of The IET, BSI GEL 65 standards committees (for IEC 61508 MT, IEC 61511 MT & IEC 62443) with over 25 years of experience in the provision of Functional Safety & Cyber Security Consultancy, as well in provision of consultancy solutions for Automation Projects for the Process Industries. In his current role, Suresh is responsible for managing the consultancy & training solutions for Functional Safety & Security Management, Alarm Management and Hazardous Area Management businesses for TÜV Rheinland customers worldwide.*

Colin Bartliff *is a Senior Safety Consultant with TÜV Rheinland. He is a Chartered professional Engineer in Electrical & Instrumentation disciplines, Certified Functional Safety & Alarm Management Professional and a Functional Safety Engineer – Machinery, with over 40 years of experience in provision of consultancy & training solutions for manufacturing industries covering industrial automation and control engineering, direct line and quality management encompassing services in accordance with international regulatory standards.*

Abstract:

Everyone recognizes the role and importance of proof testing safety instrumented functions (SIFs). This is even more challenging when considering the proof test requirements of final elements. In other words, testing the emergency shutdown valves whist the operating plant is still in production. Always challenging and often not fully exercised as expected.

This paper will provide a real case study regarding the discovery of multiple failures of ESD valves established during a maintenance overhaul and turnaround. Essentially a common cause issue generated by a root cause associated with overly complex proof test methods. This case study will detail the effect of human factors in the testing of final elements and a means for rectifying the issues discovered in this case study to prevent ESD valve failures in the future.

29. Is good, good enough for Process Safety?

Thursday – 10:00 – Reading Room

Gary Lumbard, Senior Process Safety Consultant – TÜV Rheinland

***Gary Lumbard** has recently joined TÜV Rheinland Industrial Services as a Senior Process Safety Consultant. He is a chartered Chemical Engineer with over 22 years' experience on upper tier COMAH manufacturing sites in the Fine Chemicals and Pharmaceuticals sectors. Gary has worked in a variety of Engineering and Leadership roles whilst in manufacturing, with the majority of this time focused on process safety, overseeing the Process Safety Management system and COMAH aspects for the site.*

Abstract:
Within the Process Safety field, we must ask ourselves what else can we do? How can we improve tools & methodologies to improve assessment of risk or drive down the level of residual risk? We obviously shouldn't stop thinking this way as there may be better ways to do what we do today and the gains in understanding and efficiencies make businesses more agile. However, when we look at some of the major accidents that have taken place (and continue to take place), the failings are often process safety basics.

This presentation will discuss the balance between implementing new tools and methodologies, and the risk that this presents to maintaining the basics of a process safety management system. This will involve looking to accidents from the past and assessing whether these events were caused by a lack of understanding or poor risk analysis vs. not completing what some may consider the basics of process safety. Is increasing complexity with risk analysis or focus on the new areas driving process safety improvement or is it a distraction? This is to be considered in a business environment where resources become increasingly challenging and adding process safety resource is an ever-increasing difficulty both in terms of cost and availability.

30. Managing ageing assets and the role of DSEAR compliance in process safety

Thursday – 11:15 – Reading Room

Jon Wallis, EC&I Compliance Lead & Graham Doggett, Hazardous Area Consultant – ECFIO

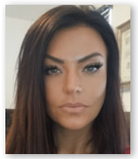
***Jon Wallis**, EC&I Compliance Lead at ECFIO, has 20 years' experience working with hazardous areas in process industries. Jon is a firm believer in loss prevention and risk reduction through effective quality assurance and training. He has worked in most high-risk industrials processes and has trained over 6,000 learners.*

***Graham Doggett**, Hazardous Area Consultant, has 16 years of experience in hazardous areas with previous roles as a Maintenance Technician, Lead EICA, Operations Manager, and ATEX/DSEAR Technical Lead. His responsibilities include design of IS and non-IS electrical systems, QA/QC, verification to DSEAR reg 7(4), hazardous area classification, and inspection management.*

Abstract:
Managing aging assets is crucial for ensuring process safety, particularly in industries where explosive atmospheres present significant risks. As process industries grapple with integrating new technologies and meeting evolving legislative requirements, the role of DSEAR compliance in managing aging assets has become increasingly critical. This presentation will discuss the current state of DSEAR compliance across process industries, common areas of non-compliance, the root causes of these issues, and the challenges posed by aging assets in process industries. It will then touch on the role of leadership and investment in process safety, as well as strategies for ensuring DSEAR compliance in aging assets.

31. Protecting lone workers from stress, isolation, and violence

Thursday – 11:45 – Reading Room



Michelle Smith, Regional Sales Manager – Blackline Safety

***Michelle Smith**, Regional Sales Manager at Blackline Safety, specialises in connected safety solutions. With over 15 years of experience in technical roles, she is a recognised expert in gas detection technologies, equipment, and safety practices tailored to hazardous environments. Michelle's deep knowledge of the gas detection industry, combined with her dedication to professional development, enables her to provide customers with the best solutions to ensure their safety. Her commitment to safety ensures that workers in high-risk environments return home safely to their families every day.*

Abstract:

Approximately 15-20% of the workforce are lone workers. Of those, 44% felt unsafe while at work and almost 20% struggled to get help after an incident. Ensuring the safety of your most at-risk workers is imperative. Join Michelle Smith to discover why establishing a clear definition for lone workers within your organisation is critical, what the legal obligations and industry-specific regulations are pertaining to lone worker safety and how to develop a comprehensive lone worker safety policy, that includes comprehensive hazard assessments and clear roles and responsibilities. The presentation will also look at ways connected worker technology can mitigate lone worker risks and valuable tools, resources, and best practices to support the management of change and ensure the safety, security, and well-being of lone workers.

32. Key considerations for emergency response for COMAH-regulated sites

Thursday – 12:15 – Reading Room

Bruce Holcombe, Commercial Director – Media & Crisis Management Ltd

***Bruce Holcombe** is a communications professional with a 30-year career in journalism, media relations, corporate communications and crisis communications. Bruce now applies his expertise in crisis communications full time. He is a Member of the Chartered Institute of Public Relations and is an active member of their Crisis Communications Network. Bruce looks after a portfolio of MCM clients, leading on contracted services for them across the whole of MCM's service offering.*

Abstract:

Bruce Holcombe will look at some 'good practice' examples for Lower and Upper Tier COMAH regulated sites when managing incidents, with an emphasis on communications and the flow of information. He will outline the priority actions for an organisation to consider, and the range of required interactions with people on the site itself and externally. In particular, Bruce will cover the expectations of external stakeholders, from interactions with the Emergency Services, local Authorities and Regulatory bodies, families and the local community. This will lead to consideration of the resources COMAH sites need to manage this workload effectively and immediately as required. Lastly, Bruce will consider how the way COMAH sites manage incidents can have a lasting effect on reputation, particular in the modern social-media world.

33. Guidelines for preparing equipment for maintenance and return to service

Thursday – 13:45 – Reading Room

Roger Stokes, Principal Engineer – BakerRisk

Roger Stokes *graduated from UMIST (Manchester, UK) as a Chemical Engineer and spent 10 years at ICI in various technical roles, leading to a position in plant management. He then spent 23 years in the insurance industry investigating incidents on chemical and petrochemical plants, joining BakerRisk in 2015. He works out of the UK office as part of the Process Safety Group, and focuses on incident investigations, insurance risk engineering, PSM and PHA. He has provided training on incident investigation and on process safety to undergraduates and at process safety conferences.*

Abstract:

A team from BakerRisk has written a new book on behalf of the Center for Chemical Process Safety (CCPS) entitled “Guidelines for Preparing Equipment for Maintenance and Return to Service” which is due to be published in about Q1 2025. Throughout the drafting process the content has been peer reviewed by subject matter experts in the safety of operating facilities that handle major hazards. The book focuses on the key hazards and risks that are associated with these activities, the involvement and interactions among multiple teams, and recommended practices and pitfalls that can be encountered. It is imperative that the teams and individuals understand the risks and complexities of decontamination of the plant, testing, and return to service, so that they can plan, assess, and implement protective measures that are commensurate with the risk. Mothballing and permanent decommissioning are also discussed. The presentation will provide an overview of some of the key issues that can cause problems, supported by case studies.

34. Routes to hazardous area certification – a collaborative approach to challenging Ex protection projects

Thursday – 14:15 – Reading Room

Martha Carillo, Certification & Consultancy Manager – Expo Technologies

Martha Carrillo *is Certification & Consultancy Manager at Expo Technologies. Her department is responsible for the hazardous area certification of customers’ equipment as well as managing the certification of our own product portfolio.*

Abstract:

Hazardous areas, where concentrations of flammable gases, vapours, or dusts can be present, provide some of the greatest safety challenges across facility design, construction, and installation. When equipment is to be installed in a hazardous location, it will need re-design or, at the very least, adaptation, before one of the many approved protection methods can be applied. This process can be costly and time consuming.

However, even the best conceived equipment or system will not be permitted to operate until it has been certified in line with local standards, and that crucial step can sometimes prove more difficult than anticipated, especially if overlooked or de-emphasised at earlier stages of the project. Through recent customer & project case studies, this paper will discuss the stages most critical to the success of the certification process, and the actions required to deliver a successful certification, avoiding project delays and excessive cost.

35. Your RPE may be appropriate but is it suitable?

Thursday – 14:45 – Reading Room

Ian Kelsall, Respiratory Protection Equipment (RPE) BDM – Draeger UK

***Ian Kelsall** is the Respiratory Protection Equipment (RPE) Business Development Manager for Draeger Safety Ltd. With 16 years' experience in the Safety Industry, Ian has focused on Application and Business Development. He has played an integral role in many new powered air, supplied air and other RPE development projects, contributing from concept creation through to user development testing. Working across most sectors Ian has extensive experience in supporting industry with RPE specification, training and end-user trials. Ian has also contributed technical expertise to RPE Product Approval and Standardisation Committees.*

Abstract:
When specifying RPE many know how to understand hazards, select protection levels and specify appropriate RPE. But what about its suitability? Increasingly specifiers are facing challenges caused by human, task and environmental factors. These can range from facial hair to the physicality and exertion required, the duration of the task to temperature or even the compatability with other PPE needed. Many are moving to Powered Air Purifying Respirators (PAPRs) as a solution to suitability factors not addressed by tight-fitting respiratory protection. This presentation takes a look at some of the benefits offered by PAPR systems and addresses some of the perceived barriers too.

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