

Hazards31

16–18 November 2021, Virtual conference

Suggested abstract topics

Assurance

Audits
COMAH & Seveso
Cyber security and cyber threats to process safety
Hazard and risk
Inspections
Legislation and compliance
Metrics
New codes of practice
Occupied buildings risk assessment
Oversight
Regulation & guidance
Safety case reviews
Other

Climate change, decarbonisation, new technologies

Carbon capture
Inherent safety
Managing the effect on existing infrastructure
Managing the impact of changing weather and extreme events caused by climate change (eg flood risk, natural hazards)
Managing the major hazard implications of new energies (eg H₂, LNG, CO₂, batteries, biomethane, unconventional gas, wind, solar)
Nuclear
Other

Engineering and design

Asset integrity and ageing plant
Chemical reaction and decomposition hazards
Digitalisation (eg cyber security, artificial intelligence, big data)

Dispersion modelling
DSEAR
Dust explosions
Energy storage
Fire and explosion hazards
Fire risk assessment
Functional safety & SIL
Hazardous area classification
Hazardous waste
Inherent safety
Pressure relief
Risk analysis
Toxic hazards
Other

Environmental protection

Air
Contamination and clean-up
Noise
Odour
Risk assessment
Waste
Water
Other

Human factors

Alarm management
Critical task analysis
Fatigue/shift patterns
Public impact
Safety psychology
Situational awareness
Unmanned plant
Other

Knowledge and competence

Analysis of losses
Big data
Case histories

Competencies
Condition monitoring
Consequence assessment and modelling
Education, training and communication
Failure data
Lessons from recent incidents and near misses
Process safety animations
Other

Safety culture

Corporate memory
Engaging business leaders
Safer plant operations
Safety leadership
Site safety culture assessment
Stakeholder engagement
Other

Systems and procedures

Construction of process plant
Decommissioning
HAZOP
Incident investigation
Integration of process safety management systems into existing business systems
LOPA
Maintenance
Management of change (MoC)
Management of non-routine operations
Operational risk assessment (business risk)
Permit to work
Process safety management
Risk assessments
Standard operating procedures
Other

