

The Department of Chemical Sciences at the University of Limerick, in association with the Synthesis and Solid-state Pharmaceutical Centre (SSPC), is pleased to offer a 1-day Master Class in Process Safety delivered by the following recognised experts and specialists in the field of process safety.

In order of presentation:



Keynote speaker

Todd Conklin has spent 27 years as a senior advisor and consultant for organizational and safety culture at Los Alamos National Laboratory (US), one of the world's foremost research and development laboratories. Todd is an internationally recognised author & thought leader on the relationship between the workers in the field and the organisation's systems, processes and programs. He holds a PhD in organizational behaviour from the University of New Mexico, and has authored several bestselling books, including "Pre-Accident Investigations: Better Questions" and "The 5 Principles of Human Performance". Todd also hosts the award-winning Pre-Accident Investigation Podcast.



Zsuzsanna Gyenes is deputy to the director of the IChemE Safety Centre (ISC). She holds an MSc in Biochemical Engineering, a postgraduate diploma in Environmental Public Administration, and obtained her PhD on the development of procedures and tools for the improvement of industrial safety against external effects. Zsuzsanna worked initially in disaster management for the Hungarian government, before becoming a Seveso site inspector; she then worked as Head of Section for Nuclear Safety in the National Directorate General for Disaster Management, Budapest. Most recently, Zsuzsanna worked as a Scientific Technical Officer for the European Commission Joint Research Centre assisting member states on Seveso implementation, land use planning policy and learning from incidents.



Eur Ing Keith Plumb is director of Integral Pharma Services Ltd. (UK), with over 30 years' experience (8+ years in Ireland) in the pharma, biopharma and fine chemicals industries covering all aspects of plant processing – manufacture, purification, physical manipulation, formulation and packing. Keith has particular expertise in the handling of combustible powders and dusts. He has held positions as a visiting lecturer at the University of Nottingham (UK) and the University of Manchester (UK).



Janette Edmonds is the director and principal consultant ergonomist at the Keil Centre (UK) – the internationally regarded, Edinburgh-based business, psychology & human factors consultancy. Janette is a Chartered Ergonomics and Human Factors Specialist (CErgHF), Fellow of the Institute of Ergonomics and Human Factors (FIEHF), and a Chartered Member of the Institution of Occupational Safety & Health (CMIOSH). She specialises in human factors engineering, human reliability, and procedure development, and has 26 years' experience in chemical processing, oil and gas, transport, manufacturing, and the emergency services. She is the course director for the IChemE Human Factors programme.



Peter Urban is the editor of "Bretherick's Handbook of Reactive Chemical Hazards", which is widely regarded as the reference work on the reported risks of explosion, fire, toxic or high-energy events that result from out-of-control chemical reactions. Dr. Urban is a retired organic chemist of initially academic background followed by 20 years' industrial experience with Courtaulds Chemicals (UK and Switzerland). He has undertaken practical work in many fields of chemistry, from milligram to tonne scale, for more than 40 years. More recently, he has engaged as a consultant chemist to AquaTech (Switzerland) on water-soluble polymers.



Ian Travers is a world expert on process safety management, leadership, and the establishment and implementation of key performance indicators for major hazard industries. He holds the IChemE's Franklin Medal for his outstanding contribution to Process Safety. Recently retired from the UK Health and Safety Executive (HSE) as Deputy Director, Chemicals Regulation, Ian (through his process safety consultancy) brings over 25 years' experience in the regulation of chemical and major hazard industries and in the investigation of underlying causes of major incidents. He led the joint HSE and industry response to the 2005 Buncefield (UK) major fire and explosion and established the UK Process Safety Leadership Group. He also chaired the international expert panel that published the OECD Guidelines on Process Safety Governance – the global benchmark on Process Safety Leadership.

The 1-day Master Class will be a blend of:

- lecture-style plenary sessions (followed by Q&As) aimed at raising awareness and understanding of key issues in process safety, and
- interactive workshops designed to provide practical tools and guidance in the area of process safety.

As such, attendance will greatly benefit those in the pharmaceutical / chemical production sector who are involved with or who influence production activities from either a technical, managerial or strategic perspective.

VENUE: BERNAL INSTITUTE, ANALOG DEVICES BUILDING

08:00 – 08:30	Registration Tea/coffee	Bernal Institute foyer
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PLENARY SESSION #1

08:30 – 08:45	Welcomes, introductions, etc.	<i>Venue: AD2-010</i>
08:45 – 10:00	The 5 principles of human performance	Todd Conklin – Keynote speaker <i>Venue: AD2-010</i>
10:00 – 10:30	Tea/coffee break	Bernal Institute foyer
10:30 – 11:15	Managing creeping changes – challenges, case studies, process safety metrics	Zsuzsanna Gyenes <i>Venue: AD2-010</i>
11:15 – 12:00	Ignition sources in hazardous areas: the dilemma of ‘own ignition sources’	Keith Plumb <i>Venue: AD2-010</i>

WORKSHOP SESSION # 1

12:05 – 13:05	Parallel Workshop I – Group A The 5 principles of human performance in action	Todd Conklin <i>Venue: AD2-010</i>
	Parallel Workshop II – Group B Human factors	Janette Edmonds <i>Venue: MSG-024/025</i>
13:05 – 13:50	Lunch	Bernal Institute foyer

PLENARY SESSION #2

13:50 – 14:35	Reactive chemical hazards	Peter Urben <i>Venue: AD2-010</i>
14:35 – 15:20	How to achieve effective control of major accident risks by focusing on the outcomes for process safety management system elements	Ian Travers <i>Venue: AD2-010</i>
15:20 – 15:50	Tea/coffee break	Bernal Institute foyer

WORKSHOP SESSION # 2

15:50 – 16:50	Parallel Workshop I – Group B The 5 principles of human performance in action	Todd Conklin <i>Venue: AD2-010</i>
	Parallel Workshop II – Group A Human factors	Janette Edmonds <i>Venue: MSG-024/025</i>

PLENARY SESSION #3

16:55 – 17:00	Master Class wrap-up	<i>Venue: AD2-010</i>
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