

WORKSHOP TUTORS

Simon Gakhar BSc CEng MChemE is a chartered chemical engineer and joined Chilworth Technology Ltd in 2004 as a Senior Process Safety Specialist working in both the industrial explosion hazards and chemical reaction hazards groups. Simon has recently become Technical Manager for the UK process safety consultancy group. Simon has 22 years process industry experience and has worked in a range of process safety and process engineering roles within Procter and Gamble and Courtaulds. For 6 years prior to joining Chilworth, Simon led the process safety consultancy group within ABB Eutech. Simon has significant experience in carrying out ATEX and DSEAR explosion risk assessments, hazardous area classification studies, electrostatic hazard assessments, occupied building risk assessments, chemical reaction hazard assessments and incident investigation. These assignments have been carried out across a wide range of industry sectors.

Simon is an experienced training course presenter and has presented several open and in-house courses and workshops on subjects such as electrostatic ignition hazards, DSEAR awareness, hazardous area classification, chemical reaction hazards and non-electrical equipment ignition source risk assessments. He has several technical papers and articles to his credit on a range of process safety topics.

Richard Ball has been with Chilworth since its inception 23 years ago and ran the Industrial Explosion Hazards laboratory for the first six years before becoming a Senior Process Safety Specialist. Richard regularly undertakes process safety audits for a broad spectrum of companies from food to chemicals and pharmaceuticals and has developed in-company standards on explosion and electrostatic hazards.

Before joining Chilworth, Richard worked on multi-sponsored industrial-scale research for the University of Southampton on electrostatic hazards of pneumatic conveyors in silos, with specialisms in explosion prevention, electrostatic hazards, hazardous area classification and interpretation of test data.

TO REGISTER FOR THIS COURSE
Please faxback this form to +44 (0)23 8076 7866

OTHER WAYS TO REGISTER

Telephone Tracy Bramall on +44 (0)23 8076 0722 to confirm availability and Fax, email or post this registration form, **together with a company cheque or official company purchase order**, to **Chilworth Technology Ltd** on +44 (0)23 8076 7866 or by post to **Chilworth Technology Ltd, Beta House, Southampton Science Park, Southampton, Hants. SO16 7NS.**

Email: tbramall@chilworth.co.uk

REGISTRATION

I wish to reserve a place on 'Learning from Incidents' on :

22nd Feb 2010 (Manchester)

I cannot attend the course but would like a **FREE consultation** with a Process Safety Specialist

Dr/Mr/Mrs/Ms/Miss:

Name:

Job Title:

Company Name:

Address:

.....

Postcode:

Country:

Telephone:

Fax:

Email:

Signature:

Date:

cancellations: All reservations in writing are subject to cancellation conditions. Written cancellations received up to 5 working days before the course date will be subject to an admin charge of £50. No refunds will be made for cancellations received after this date, or for non-attendance, but course notes will be sent. Substitutions may be made at any time. Chilworth Technology reserves the right to modify or cancel the course up to 5 working days prior to the start date.



buncefield *imperial-sugar* *texas-city* *bar-ton-solvents* *valero* *t2* *cai* *albright fuyuan* *flixborough* *irvine* *bordeaux* *cta* *crudgington* *hickson* *lavrio...*

£175 per delegate
including lunch

Hilton Hotel
Manchester 22nd Feb

Call +44 (0)23 8076 0722
to reserve your place

a half-day course with lunch, 1pm to 5pm



LEARNING FROM INCIDENTS

*"Those who don't know history are destined to repeat it"
Edmund Burke (1729-1797).*

We can all name headline-leading incidents in recent times involving significant damage or loss of life eg. Buncefield, Flixborough, Texas-City or Imperial Sugar, but do we appreciate the full story and circumstances behind them?

The explosion and fire at Buncefield was equivalent to a 2.4 magnitude earthquake and left 43 people injured, and the directors of 5 major companies held responsible in court. A petrol spillage with a devastating outcome costing £750M!

Despite tightening of process safety legislation, such headline making incidents are occurring with an alarming regularity. They result in devastation to lives, businesses and communities. But these incidents should not go in vain. The lessons learned play a key part in advancing our understanding of process safety and incidents frequently contradict our perceived understanding of fundamentals such as explosion consequences. Regulators take full advantage of the lessons to help shape legislation and we are all familiar with the outcome e.g. Seveso. All organisations can suffer loss through poor process safety, so the same advantage should be taken by analysing their own and other people's incidents and the lessons learned should be continually fed back into their Basis of Safety.

Central to Chilworth Global's 23 years experience in UK and international incident and near-miss investigations, is not just the direct lessons learnt from incidents themselves, but a realisation that many could have been prevented by adequate risk assessments, implementation of the risk assessment recommendations and maintenance of a suitable Basis of Safety.

This course aims to provide a solid technical overview of recent headline incidents investigated by Chilworth and others, including investigations, data interpretation and appropriate conclusions and mitigation strategies to help companies enhance their process safety.

Lunch is included to provide an opportunity to meet and discuss safety issues with the course leader other safety professionals attending the course, with printed notes provided and a opportunities for open forum Q+As.

WORKSHOP OBJECTIVES

The key aims of the workshop are to:

- Describe recent incidents in detail – examples will include gas and vapour explosions, dust explosions and chemical reaction hazards
- Highlight the devastating consequences of such incidents
- Demonstrate the considerable benefits of studying incidents and extracting appropriate information.
- Show how these incidents have many common causes
- Show how common it is to find these hazardous situations in industry – Do you have a ticking bomb?
- Demonstrate how such incidents could have been prevented with measures such as adequate risk assessments and by having and maintaining a suitable Basis of Safety

WORKSHOP PROGRAMME

An outline of the areas which will be covered includes:

- Introduction
- *"I would never have predicted that"* – How analysing incidents makes us better risk assessors.
- An investigators experience of incidents – what you don't see in photos and incident reports
- Description of selected public domain incidents and lessons learned – But the causes 'are not unique' and so examples of the presenter's experience of similar hazardous situations will be provided.
 - o Buncefield Petrol Explosion
 - o Imperial Sugar Dust Explosion
 - o CAI Gas Explosion in Building
 - o T2 Laboratories Exothermic Runaway Reaction
- Common themes – are incidents all that different? What common actions might have prevented them?
- Discussion and Close

WHO SHOULD ATTEND?

The workshop is suitable for anyone who has a responsibility or interest in preventing incidents on their site. This would apply to a wide range of personnel including senior managers, safety professionals, engineers and chemists.

VENUE

A location map and full details of your chosen Hilton location are available by clicking the respective link below:

www.hilton.co.uk/Manchesterairport

CHILWORTH GLOBAL

Chilworth Global brings together leading experts in the field of process safety with state-of-the-art GLP compliant safety laboratories to provide a single point of contact for all your process safety needs. Our GLP compliant laboratories cover four areas of process safety, fire and explosion hazards, chemical reaction hazards, electrostatic properties and regulatory testing.

Supporting our laboratories and providing independent and impartial advice is our consultancy team. A group of dedicated engineers and scientists who specialise in the field of industrial explosion hazards, chemical process evaluation, vent sizing (DIERS), HAZOP, electrostatic hazards and production problems, incident investigation, SIL studies, expert witness and process safety training.

Learn more about Chilworth and the services, training options and equipment we offer by clicking the link below:

www.chilworth.co.uk



Call +44 (0)23 8076 0722 to reserve your place

Email your form to info@chilworth.co.uk

Fax your form to +44 (0)23 8076 7866