The theme of this Symposium is that there are many potential hazards in the process industries and many potential ways of dealing with them. So it is important that best practice can be derived and then spread through the industry. But think of the sources of new information - technical research, advances in safety management techniques, increased experience in the safe running of plant and the lessons learned from the investigation of incidents and near misses. All of them can provide valuable help, of benefit to many. The question is - how can this information be collected and best practice distilled from it and then made widely known?

The aim of this Symposium is to bring together international academic, industrial and regulatory experts and practitioners from the fields of process safety and environmental protection to present and discuss the latest technical advances and new thinking in safety and environmental management techniques. The emphasis of the Symposium will be on the ways that new information can be disseminated to industry and how best practice can be developed and made known.

This Symposium is supported by the HSE and the Environment Agency; SPONSORED by Lloyd’s Register / Shell Global Solutions, and ABB Engineering Services; CO-SPONSORED by - CCPS (AIChE), SCI, CIA, RSC, EPSC, Safety & Reliability Society, IOSH, SIESO, and the Safety and Loss Prevention and Environmental Protection Subject Groups of the IChemE.
Following the ATEX explosive directive, the course will consist of an introduction to the phenomenon of dust explosions using Ciba® Expert Services video footage and a short lecture. There will then be a lecture on the relevant measurement and characterization of dusts and dust explosions as tested for pressure rise ($P_{\text{max}}$), peak rate of pressure rise ($dP/dt_{\text{max}}$), Minimum Ignition Energy (MIE), Limiting Oxygen Concentration (LOC), Upper and Lower Explosive Limits (UEL, LEL), Bulk resistivity, $R_1$ value, $S_{\text{t}}$ value and particle size. This will be followed by exercises by the participants. Apparatus covered will include Modified Hartmann Test, 20 l sphere, 1 m$^3$ Vessel, MIKE 3 etc. There will be a lecture and video on ignition sources followed by a detailed lecture on static as an ignition source. Participants will be made familiar with the various methods of prevention and control of dust explosions using the latest revised VDI nomographs. The control methods will be demonstrated on video.

Attendees should come equipped with rule, pencil and calculator.

09.30 Registration in the Main reception foyer of the Weston Building, and Coffee
outside Conference Room 6 (Workshop location)
10.00 Dust explosion basics lecture.
10.30 Video "Dust Explosions".
11.00 Protection measures lecture.
11.15 Protection systems testing Video
11.30 Measuring Equipment for Dusts lecture.
12.00 Lunch
13.00 Plenary exercise Measuring a dust explosion.
13.30 Venting using the VDI nomographs and exercise
14.30 Suppression and Inerting
15.00 Coffee
15.30 Static ignition of dusts
16.00 Other Dust problems
16.30 End.
**Day 1 of Symposium and Exhibition – Tuesday 23rd November 2004**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08.30</td>
<td>Registration, Coffee</td>
</tr>
<tr>
<td>09.15</td>
<td>Welcome and Introduction by K.K. Wall – Chairman of the IChemE North West Branch</td>
</tr>
</tbody>
</table>

**PLENARY SESSION 1 – KEYNOTE PAPERS**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>09.25</td>
<td>The Burgoyne Memorial Lecture</td>
</tr>
<tr>
<td>10.00</td>
<td>Bhogal and the global movement on process safety</td>
</tr>
<tr>
<td>10.30</td>
<td>Process intensification: Safety pros and cons</td>
</tr>
<tr>
<td>11.00</td>
<td>Coffee</td>
</tr>
<tr>
<td>11.30</td>
<td>Effects of the Columbia space shuttle accident on risky industries/Can we learn from other Industries’ lessons?</td>
</tr>
<tr>
<td>12.00</td>
<td>Developing a major hazards learning culture – Interpreting information from the Ciba Specialty Chemicals, Bradford near miss reporting system up to 2003</td>
</tr>
<tr>
<td>12.30</td>
<td>Looking beyond ALARP – The ecology of risks</td>
</tr>
<tr>
<td>13.00</td>
<td>Lunch and Exhibition</td>
</tr>
</tbody>
</table>

**PLENARY SESSION 2 – POSTER PAPERS**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.00</td>
<td>Introduction of Poster Papers by Authors</td>
</tr>
<tr>
<td>14.30-15.00</td>
<td>Exhibition and Poster Presentations</td>
</tr>
</tbody>
</table>

**SESSION 3 – SAFETY MANAGEMENT**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>15.00</td>
<td>Implementing major accident hazard management – Silo busting in practice</td>
</tr>
<tr>
<td>15.30</td>
<td>To do no harm – Measuring safety performance in a transition economy</td>
</tr>
<tr>
<td>16.00</td>
<td>Tea, Exhibition and Poster Viewing</td>
</tr>
<tr>
<td>16.30</td>
<td>Measuring corporate health and safety performance and corporate social responsibility – latest development</td>
</tr>
<tr>
<td>17.00</td>
<td>Safety, health and environment versus company success</td>
</tr>
</tbody>
</table>

**SESSION 4 – ISSUES FROM SEVESO / COMAH**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>15.00</td>
<td>Substances prioritisation for the development of EU acute exposure toxicity thresholds: Risk-informed decision making</td>
</tr>
<tr>
<td>15.30</td>
<td>Major accident hazard and land-use planning – Italian case studies.</td>
</tr>
<tr>
<td>16.00</td>
<td>Tea, Exhibition and Poster Viewing</td>
</tr>
<tr>
<td>16.30</td>
<td>CMAH competent authority strategy for COMAH Regulation 8 – Safety report review and Revision</td>
</tr>
<tr>
<td>17.00</td>
<td>The amendment of the Seveso Directive and proposed changes to the Control of Major Accident Hazard Regulations (COMAH) 1999</td>
</tr>
</tbody>
</table>

**SESSION 5 – SAFE PROCESS DESIGN**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>15.00</td>
<td>Rethinking physics of large-scale vented explosion and its mitigation</td>
</tr>
<tr>
<td>15.30</td>
<td>Are we too risk-averse for inherent safety?</td>
</tr>
<tr>
<td>16.00</td>
<td>Tea, Exhibition and Poster Viewing</td>
</tr>
<tr>
<td>16.30</td>
<td>Modelling of formation and combustion of accidentally released fuel clouds</td>
</tr>
<tr>
<td>17.00</td>
<td>Explosions in gas turbine enclosures</td>
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</tbody>
</table>

**RECEPTION AND BUFFET – Conference Centre Dining Room**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>18.00</td>
<td>Welcome by Joint Sponsors – Lloyds Register and Shell Global Solutions</td>
</tr>
</tbody>
</table>
Day 2 of Symposium and Exhibition – Wednesday 24th November 2004

08.30 Registration, Coffee and Exhibition

09.00 – 12.30 THREE PARALLEL SESSIONS (SESSIONS 6, 7, AND 8)

SESSION 6 – COMPLIANCE WITH STANDARDS
Chairman – Dr G.A. Lunn

<table>
<thead>
<tr>
<th>09.00</th>
<th>Practical approach to the Dangerous Substances &amp; Explosive Atmospheres Regulations (DSEAR 2002)</th>
<th>09.00</th>
<th>Fire hazards of packaged flammable dusts – Follow up of HSE’s investigation and fire trials</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>G. Sellers – Safety consultant</td>
<td></td>
<td>M. Iossa – Health and Safety Executive, Manchester</td>
</tr>
<tr>
<td></td>
<td>R. King – Woodlands Grange Training &amp; Conference Centre, Leamington Spa</td>
<td></td>
<td>G. Atkinson – Health &amp; Safety Laboratory, Buxton</td>
</tr>
<tr>
<td></td>
<td>R. Westwood – Alstom Network Ltd, Romford</td>
<td></td>
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<tr>
<td>09.30</td>
<td>Application of DSEAR to a bulk handling facility</td>
<td>09.30</td>
<td>Fire hazards of plastic IBCs containing flammable or combustible liquids</td>
</tr>
<tr>
<td></td>
<td>S.J. Manchester – Dual Explosions Fire Division, BRE Ltd</td>
<td></td>
<td>G. Atkinson – Health &amp; Safety Laboratory, Buxton</td>
</tr>
<tr>
<td>10.00</td>
<td>Practical guidelines and procedures for SIL ranking under IEC 61508/61511</td>
<td>10.00</td>
<td>Hydrogenation fabrication cracking: HSE’s industrial experience, and research into defect detection with a number of NDT techniques</td>
</tr>
<tr>
<td></td>
<td>M. Wiss – Aker Kvaerner Engineering Services Ltd</td>
<td></td>
<td>H. Binkowski – Health &amp; Safety Executive</td>
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<td></td>
<td></td>
<td></td>
<td>B. MccGyph – Inspection Validation Centre, Serco Assurance</td>
</tr>
</tbody>
</table>

10.30 Coffee, Exhibition and Poster Viewing

11.00 Ignition of explosive atmospheres by mechanical equipment
S. Howarth, J. Gummer – Health & Safety Laboratory, Buxton
R. Rogers – INBUREX GmbH, Hanover, Germany
C. Proust, D. Rowewe – INERS, Vernex-En-Haut, France
M. Bayer, S. Schenk – PTB, Braunschweig, Germany

11.30 Applying the latest standard for functional safety – IEC 61511

12.00 Common misunderstandings about the practical application of IEC 61508
H. Penne, J. Catmorum and G. Stevens – Arthur D. Little, Cambridge

14.00 – 17.30 THREE PARALLEL SESSIONS (SESSIONS 9, 10, AND 11)

SESSION 9 – CHEMICAL REACTIONS
Chairman – Mr. R. Dixon-Jackson – Ciba Specialty Chemicals PLC

<table>
<thead>
<tr>
<th>14.00</th>
<th>Microwave Chemistry – An approach to the assessment of chemical reaction hazards</th>
<th>14.00</th>
<th>A new estimate of the likelihood of spontaneous catastrophic failure of pressurised LPG storage vessels</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.30</td>
<td>The accelerated search for active pharmaceuticals: Accelerated process development</td>
<td>14.30</td>
<td>PW. Winter – AEA Technology, Rayleigh, Cheshire</td>
</tr>
<tr>
<td></td>
<td>J. Borderton – JBSafety Consultancy, Hitchen, Herts</td>
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<tr>
<td></td>
<td>C. A. Smith – GlaxoSmithKline, Harlow, Essex</td>
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<tr>
<td>15.00</td>
<td>Pilot-Scale evaluation of the inhibition of exothermic runaway</td>
<td>15.00</td>
<td>Control of operations in the Nuclear industry and the derivation of operating rules:</td>
</tr>
<tr>
<td></td>
<td>T.J. Snee and L. Corcoran – Health &amp; Safety Laboratory, Buxton</td>
<td></td>
<td>A. Trimble – HM Nuclear Installations Inspectorate, HSE</td>
</tr>
<tr>
<td>15.30</td>
<td>Tea, Exhibition and Poster Viewing</td>
<td>15.30</td>
<td></td>
</tr>
</tbody>
</table>

16.00 Supercritical hydrogenations – Using a novel inherently safer approach
J. Singh and S. Waldram – Hazard Evaluation Laboratories Ltd, Boreham, Herts
J. R. Hyde and M. Polodubl – University of Nottingham

16.30 The effect of crucible type on differential scanning calorimetry (DSC) measurements
G. S. Arthur – Syngenta plc, Hoddesdon Manufacturing Centre

17.00 Self-ignition of combustible bulk materials under various ambient conditions
C. Lohrer and U. Krause – BAM, Berlin, Germany
J. Stienbach – Technical University of Berlin, Germany

17.00 Occupied buildings on chemical sites – Revised CIA guidance and assessment method
R. Paterson – CIA Solutions Ltd, Castleford, West Yorkshire
N. Beranovic – Chemical Industries Association, London
R. De Cort, Hazardous Installations Directorate, HSE
SESSION 8 – SAFE PROCESS DESIGN
Chairman – H Conlin – Consultant

09.00 Simulating dust explosions with the first version of DESC
T Skjold, O R Hansen and I Storvik – Gexcon AS, Bergen, Norway
B I Arntsen, O J Tandstad and R K Eckhoff – University of Bergen, Norway

09.30 Design of explosion isolation barriers
P E Moore and D J Spring – Kidde plc, Slough

10.00 Flash points of aqueous solutions of flammable solvents
G R Astbury
K M Stell – Avecia Ltd, Blackley, Manchester
J Bugeard Raguin and E Groleau – Ecole des Mines d’Ales, Cedex, France

10.30 Coffee, Exhibition and Poster viewing

11.00 Solvents in powders
S Puttick and H Gibbon – Syngenta plc, Huddersfield Manufacturing Centre.

11.30 27 Alpha pig launcher incident - Integrity management
D O Leary – BP Plc
A Stanley – RAS Ltd
B Malekpour – DNV

SESSION 11 – HUMAN FACTORS AND BEHAVIOUR
Chairman – Professor T A Kletz – Loughborough University

14.00 Developing internal human factors expertise on a high-hazard site
P Joyner – BP Grangemouth
R Lardner – CPsychol, The Keil Centre Ltd, Edinburgh

14.30 Improving human factors & safety in the process industries: The PRISM project
R Turney – Safety and Risk Consultant

15.00 Enhancing accident investigation by applying behaviour-based technology
C Marsh, R Fair and M Iversen – ConocoPhillips, Humber Refinery, South Killingholme, N Lincs

15.30 Tea, Exhibition and Poster Viewing

16.00 The integration of data for tackling human factors problems
A Ross and J Denis – University of Strathclyde, Glasgow
M Plunkett – Human Factors Analysts Ltd, Glasgow

16.30 Behavioural safety and major accident hazards: magic bullet or shot in the dark?
M Anderson – Human Factors Team, HSE

17.00 Human factors integration for a new top tier COMAH site – Satisfying the regulator
L Cullen – Atkins Consultants, Birchwood, Warrington
M Anderson – Human Factors Team, HSE

SYMPOSIUM DINNER – PORTLAND THISTLE HOTEL
18.30 for 19.00 in the Windermere/Buttermere Suite
After dinner speakers:
Dr Robin Batterham – President of the Institution of Chemical Engineers
Chief Technologist of Rio Tinto, and Chief Scientist to the Australian Government
Presentation of the Frank Lees Medal for Safety and Loss Prevention to Mr Brian Harris
Mr Gerard Forlin – Barrister, Grays Inn Square, London
Mr Peter Flinn – ABB Engineering Services
Day 3 of Symposium and Exhibition – Thursday 25th November 2004

08.30 Registration, Coffee and Exhibition

09.00 – 12.30 TWO PARALLEL SESSIONS (SESSIONS 12 AND 13)

SESSION 12 – RISK ASSESSMENT AND ANALYSIS (continued)
Chairman – Mr. K. Dixon-Jackson – Ciba Specialty Chemicals PLC

09.00 Risk decision-making for chemical process security
D. A. Moore and L. M. Stanton – AcuTech Consulting Group, Chemetica Inc, San Francisco

09.30 Water reactive materials – incorporation into safety and environmental risk assessments
L. Fernie – Aker Kvaerner Engineering Services Ltd, Stockton-on-Tees
T. Kapias – Consultant

10.00 Addressing the problems of root cause analysis: A new approach to accident investigation

10.30 Coffee, Exhibition and Poster Viewing

11.00 A multi-criteria and fuzzy logic based methodology for the relative ranking of the fire hazard of chemical substances and installations
A. N. Paralikas and A. I. Lygeros – School of Chemical Engineering, National Technical University of Athens, Greece

11.30 An expert user’s trial of the Hazid system for computer-aided Hazop emulation
S. A. McCoy – Hazid Technologies Ltd, Loughborough University Innovation Centre
F. C. Gray – Dept. of Chemical & Process Engineering, University of Strathclyde
P. W. H. Chung – Dept. of Computer Science, Loughborough University

12.00 The professional engineer and his enhanced duty of care
J. Bond – C-MIST

12.45 Lunch, Exhibition and Poster Viewing

SESSION 13 – SAFETY MANAGEMENT (continued)
Chairman – Mr. G. Sellers - Consultant

09.00 The Brunner Mond safety project
D. Whitworth Hilton – Brunner Mond, Northwich, Cheshire

09.30 Lessons from Grangemouth
N. J. Macnaughton – BP Grangemouth
C. C. Watson – BP Chemicals

10.00 Assessing Longford Gas Plant 1 staffing arrangements
H. Conlin
J. O’Meara – Independent consultant

10.30 Coffee, Exhibition and Poster Viewing

11.00 An evaluation study of safety information management in the petrochemical industry
T. L. Lou and G. H. Howson – Dept. of Chemical Engineering, Loughborough University

11.30 Establishing health and safety requirements outside your native country
J. Reed – EDF Energy, London

12.00 Process safety issues for small businesses
M. S. Mannan, H. H. West, N. Karen and J. M. O’Connor – Mary Kay O’Connor Process Safety Center, Texas A&M University System

12.45 Lunch, Exhibition and Poster Viewing

PLENARY SESSION 14 – ISSUES FROM SEVESO/COMAH (cont.)
Chairman – Mr. T. Clayton, Environment Agency

14.00 Post licensing oversight and inspection of major hazard facilities – An Australian regulator’s experience
G. Cooke, S. Sinclair and R. Shers – Hazard Management Division, WorkSafe Victoria, Australia

14.30 Environmental risk assessment in support of COMAH and PPC
J. Calder – Aker Kvaerner Engineering Services Ltd, Thurso, Caithness

15.00 Evaluating the impact of the COMAH regime on chemical manufacturing sites to identify the key issues for the next round of safety report submissions
C. J. Bale – Ciba Specialty Chemicals, Bradford, W/Yorks

15.30 The mutual joint visit programme on inspections under Seveso II: Exchanging lessons learned on inspection best practices
M. Wood – Major Accident Hazards Bureau, EC Joint Research Centre, Ispra, Italy

16.00 Close of Symposium
By Dr. I. F. McConvey, AstraZeneca

16.15 Tea, and Departure

Please note that the programme may be subject to alteration
POSTER SESSION PAPERS (PLENARY SESSION 2)

OECD guidance on safety performance indicators
D Bosworth – Health & Safety Executive

The PIMEX method, communication by visualization
H Kviecien – KOHS, Vienna, Austria

Criteria for the frequency and magnitude evaluation of Domino effects
C Apule – Ministry of the Interiors, National Fire Brigade, Rome
A Romano, M Gotti and P Perrone – TRR S.r.l., Ossofi Sotto (BG), Italy

A study of the droplet size distributions and the reaction heats in liquid-liquid heterogeneous reaction process
Y Fujimoto – National Institute of Industrial Safety, Kiyose, Tokyo, Japan

The development and application of health and safety grounded ladders (anchored rating scales) for benchmarking
S Mira – Foster Wheeler Energy Ltd, Reading

Improvement of safety culture at Estonian enterprises
P Tet, G Kinje and K Reinhold – Tallinn Technical University, Estonia

EXHIBITION

An Exhibition by organisations involved in the process safety and environmental protection fields will be held over the period of the symposium. Safety publications from the IChemE will be displayed

Exhibition space (which is strictly limited) for displaying hardware and software is available on a first-come first-served basis

For information and reservations please contact the symposium organiser: M J Adams (Tel/Fax: 01539 732945, e-mail: mkeadams@rawgreen.fsworld.co.uk)

SYMPOSIUM AND WORKSHOP REGISTRATION FEES

WORKSHOP on Monday 22nd November only
"Dust Explosions – basic principles, measurement and control"...£100 + £17.50 vat = £117.50 total

SYMPOSIUM (ALL PRICES INCLUDE VAT)
3 DAYS £715.00 £515.00 £315.00
2 DAYS £515.00 £315.00 £165.00
1 DAY £365.00

Corporate attendance (two or more Delegates from the same company, etc)............15% discount

Full time undergraduate student £85.00 £60.00 £40.00
Unwaged, retired and others..........................please enquire

Author (member) £385.00 £240.00 Free on day of presentation
Author (non-member) £445.00 £275.00 Free on day of presentation
Co-Author (member) £535.00 £385.00 £240.00
Co-Author (non-member) £615.00 £445.00 £275.00

Cancellations Policy

Cancellations received in writing before 22nd October 2004 will be subject to an administrative charge of £50.00. No refunds will be made for cancellations received after this date but copies of any documentation will be sent on. Substitutions are welcomed at any time.
Tuesday 23rd November after lunch: Session 3 [ ]  Session 4 [ ]  Session 5 [ ]

Wednesday 24th November:
Morning Sessions:  Session 6 [ ]  Session 7 [ ]  Session 8 [ ]
Afternoon Sessions:  Session 9 [ ]  Session 10 [ ]  Session 11 [ ]

Thursday 25th November:
Before lunch:  Session 12 [ ]  Session 13 [ ]

REGISTRATION FORM
Prof/Dr/Mr/Ms/Mrs/Name [ ] Initials [ ] Surname [ ]
Company/Other [ ]
Address [ ] Telephone/Fax No [ ]
e-mail (optional) [ ]

Membership of Professional Institution [ ]
Membership of symposium Co-sponsor (see inside of programme) [ ]

I WISH TO REGISTER FOR THE FOLLOWING DAYS: (Please tick the relevant boxes)

Monday 22nd November [ ]  Tuesday 23rd November [ ]
Wednesday 24th November [ ]  Thursday 25th November [ ]

** Please note - Three day delegates fees include the cost of the Symposium dinner on Wednesday 24th November [ ].

I wish to attend the Symposium dinner (24th November) as an optional extra of £30 + VAT = £35.25 total [ ].

I plan to attend the FREE reception and Buffet on Tuesday 23rd November [ ].

Please send me a VAT receipt [ ].
Please send me an Invoice [ ] (against my Purchase Order).

ACCOMMODATION

Rooms have been reserved in the Manchester Conference Centre Weston Building (in which the Conference is being held) and at the Thistle Hotel close to The Weston Building. Delegates must make their own arrangements directly with either the Conference Centre or the Thistle Hotel, and should do so early to secure this convenient accommodation, as availability is limited. On applying for accommodation the symposium should be quoted (N.B. Rooms may well be available also at the IBIS Hotel, Charles St., Manchester, which is close to the Weston Building).

WESTON BUILDING
Hotel Standard room  • Single Occupancy £ 75.00 per night  • Double Occupancy £ 85.00 per night  • Inclusive of VAT and full English Breakfast

Bookings/reservations should be sent directly to:
The Thistle Hotel, Piccadilly Gardens, Manchester, M1 6DP
Tel: 0870 333 9139  Fax: 0870 333 9239
e-mail: reservations.manchester@thistle.co.uk
Tel: 0161 272 5000, Fax: 0161 272 5010, e-mail: H3143@accor-hotels.com

THE THISTLE HOTEL
• Executive single £ 89.00 per night  • Executive double £ 110.00 per night  • Inclusive of VAT and full English Breakfast

Bookings/reservations should be sent directly to:
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