CALL FOR PAPERS

Safety Control Systems & Hazardous Areas Conference

27th & 28th May 2015 – Johannesburg, SOUTH AFRICA

Are you an Engineering Professional in the Safety Control Systems & Hazardous Areas Industry? We are currently looking for a number of presenters to submit an abstract and present their papers at the upcoming conference which will combine papers on Safety Control and Instrumentation Systems, Machine Safety and Hazardous Areas.

This conference will combine these very important topics into one event; allowing delegates to attend the conference days which are relevant to them. This is how it will work:

DAY ONE - Wednesday 27th May – SAFETY CONTROL AND INSTRUMENTATION SYSTEMS (including machine safety)

The first part of the conference will focus on the technology and application of safety-related control and instrumentation systems in the chemicals, energy, mining and manufacturing industries. It will examine the complex and challenging issues of using control systems technology to maintain and improve the safety of people and plant whilst ensuring profitability.

The conference will also seek to cover the recent revisions to the IEC 61508 standard. This standard serves as the foundation for other application specific standards used for projects in chemicals and automation. The subject of “competency” has now been included as a mandatory requirement for compliance so this will be significant for the training of engineers in the subject. Formal certification of Safety Experts will probably become even more desirable with some experts commenting that this will require a demonstration of real competency rather than a paper qualification.

DAY TWO - Thursday 28th May – HAZARDOUS AREAS

This component of the conference has been created to meet and exchange ideas for those concerned with the safe use of electrical equipment and instrumentation in hazardous, flammable or explosive atmospheres, thus preventing accidents and injuries in the workplace.

It will serve to highlight technologies, best practices, and accelerate improvements in standards and regulations and reduce the economic impact of accidents through the prevention of explosions and fires due to ignition of flammable vapours or dust clouds. You will be sharing your experience and know-how with engineers, technicians and other technical professionals who are all eager to eliminate accidents and injuries.
## Suggested Topics:

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<tr>
<th><strong>Management of Functional Safety</strong></th>
<th><strong>Equipment and Technologies for Process Safety Controls</strong></th>
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<tbody>
<tr>
<td>Implications and status of EN 61508 and IEC 61511 worldwide</td>
<td>Latest developments in safety PLCs and their software</td>
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<td>Strategies for upgrading safety control systems on existing plants</td>
<td>Choosing instruments suitable for safety systems</td>
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<td>Benefits and problems of SIL reviews</td>
<td>The scope and benefits of safety certification</td>
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<td>The challenges of the safety life cycle quality assurance method</td>
<td>Benefits of smart positioners for shutdown valves</td>
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<td>The roles of the design contractor and the end user in process safety</td>
<td>Independence of safety controls and their integration with DCS</td>
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<td>Cost estimating and the economics of safety</td>
<td>Field bus technologies and safety-certified networking systems</td>
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<td>Competency, training and the CFSE, TUV &amp; ISA qualifications</td>
<td>Burner Management Systems and the impact of IEC 61508</td>
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### SIS Design and Implementation

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<th><strong>Project Engineering and Application Case Studies</strong></th>
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<td>SIL determination, methods, trends and experiences</td>
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<td>Design principles and redundancy methods for meeting SIL targets</td>
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<td>Reliability calculations, tools and sources of data</td>
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<td>Design, testing and certification of safety PLCs</td>
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<td>Alarm system improvement projects</td>
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### Machinery and Automation Safety

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<td>New standards in machinery safety control (IEC 62061) and ISO 62061</td>
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<td>Safety categories compared with SILs</td>
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<td>Machine safety systems integration and networking</td>
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<td>Benefits of integrated safety systems in automation</td>
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We are looking to cover:

- Revisions to the IEC 61508 standard and their impact on vendors and end users
- New developments in safety control technology
- Growth of safety network technology and the wide range of new products
- Integrated control and safety systems
- Requirements for equipment safety controls to comply with IEC 61508 related standards
- Competency schemes, training and certification
- Certification of companies for management of functional safety
- The impact of functional safety standards in mining & transportation
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<tr>
<th>HAZARDOUS AREAS</th>
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<td>Zones and definitions</td>
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<td>Apparatus grouping and temperature</td>
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<td>Standards, certification, certificates, marking and approval</td>
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<td>Installation, maintenance, fault finding and repairs of Ex equipment</td>
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<td>Safety programs for hazardous areas</td>
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<td>Regulations and the Law</td>
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<td>Case histories of electrical incidents</td>
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<td>Construction, operation and maintenance</td>
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**All Submissions Welcome!**

**Note:** We are seeking papers that cover a selection of case studies and examples of real world working systems, and problem solving scenarios. *Sales or product based presentations are not accepted.*

This event is an excellent opportunity to network with your industry peers and for speakers to gain significant new information and techniques on safety systems and hazardous areas.

Presenters attend the event free of charge and are able to pass on a 20% discount to their colleagues or clients.

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**What is required from you?**

- A **100 word abstract**, which outlines the topic you, would like to present. This needs to be submitted electronically as soon as possible, to secure your place.

- Once your topic is approved, your **technical paper and PowerPoint slides** will be due six weeks prior to the event.

- Speaking slots are allocated on topic suitability and on a first come first served basis, so please register your interest today by emailing [sarah.montgomery@idc-online.com](mailto:sarah.montgomery@idc-online.com)

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For further information on this event or to discuss sponsorship opportunities contact:

Sarah Montgomery  
Conference Manager  
**IDC Technologies**  
[www.idc-online.com](http://www.idc-online.com)