



## CALL FOR PAPERS

### **Safety Control Systems & Hazardous Areas Conference** (Safety Control & Instrumentation Systems, Machine Safety & Hazardous Areas)

2<sup>nd</sup> & 3<sup>rd</sup> May 2012, Auckland, New Zealand

**Are you an Engineering Professional in the New Zealand Safety & Hazardous Areas Industry?** We are currently looking for a number of presenters to submit an abstract and present their papers at the upcoming Safety 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 2<sup>nd</sup> May: Presentations on Safety Control & Instrumentation Systems & Machine Safety topics including latest changes to the IEC 61508.

#### **DAY TWO**

Thursday 3<sup>rd</sup> May: A combination of papers on Hazardous Areas.

#### **DAY ONE - 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.

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



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- 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

### Other topic Suggestions:

Management of Functional Safety	Equipment and Technologies for Process Safety Controls
Implications and status of EN 61508 and IEC 61511 worldwide	Latest developments in safety PLCs and their software
Strategies for upgrading safety control systems on existing plants	Choosing instruments suitable for safety systems
Benefits and problems of SIL reviews	The scope and benefits of safety certification
The challenges of the safety life cycle quality assurance method	Benefits of smart positioners for shutdown valves
The roles of the design contractor and the end user in process safety	Independence of safety controls and their integration with DCS
Cost estimating and the economics of safety	Field bus technologies and safety-certified networking systems
Competency, training and the CFSE, TUV & ISA qualifications	Burner Management Systems and the impact of IEC 61508
SIS Design and Implementation	Project Engineering and Application Case Studies
SIL determination, methods, trends and experiences	Design and implementation project examples and experiences
Design principles and redundancy methods for meeting SIL targets	Software tools for design and productivity in the safety life cycle
Reliability calculations, tools and sources of data	Managing the application software project
Design, testing and certification of safety PLCs	Maintenance and test scheduling of safety systems
Alarm system improvement projects	

Machinery and Automation Safety
New standards in machinery safety control (IEC 62061) and ISO 62061
Safety categories compared with SILs
Machine safety systems integration and networking
Benefits of integrated safety systems in automation



## DAY 2 - 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.

### Topic Suggestions:

HAZARDOUS AREAS	
Zones and definitions	Classification of apparatus
Apparatus grouping and temperature	Electrical hazards, earthing, bonding and testing
Standards, certification, certificates, marking and approval	Codes of practice for selection and installations of Ex equipment
Installation, maintenance, fault finding and repairs of Ex equipment	Safe Electrical equipment design and selection for hazardous areas
Safety programs for hazardous areas	Training and Workplace safety for hazardous areas
Regulations and the Law	Risk management
Case histories of electrical incidents	Organisational requirements of safety for hazardous areas
Construction, operation and maintenance	Auditing techniques

## All Submissions Welcome !

A Totally NEW Interactive Experience in Conferences

The Safety Conference 2012 will allow delegates to be active participants throughout the two days. Delegates will have the opportunity to participate in interactive discussions and exercises with all presenters. Each presenter is encouraged to include a interactive segment to their presentation.

**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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**To express an interest:** To express interest in presenting at this conference, please send a 100 word abstract outlining your suggested topic.

**Note:** Topics that include case studies and practical applications have higher likelihood of being accepted.

Please email Arna Holmes, your conference coordinator: [conferences@idc-online.com](mailto:conferences@idc-online.com)

**Once approved, what is then required ?** Write a technical paper and present this at the conference using PowerPoint to illustrate your main points. Presentations are 45minutes long. Both a paper and the presentation slides are required. These documents are due 6 weeks prior to event.

**Important Dates:**

1. Abstract Due: **ASAP** – topics are approved on a first come and suitability basis so please register your interest as soon as possible.
2. Full Paper & Slides Deadline: Friday 16<sup>th</sup> March 2012

For further information on this event or to discuss sponsorship opportunities contact Arna Holmes: [conferences@idc-online.com](mailto:conferences@idc-online.com)

Arna Holmes  
Conference Coordinator

**IDC Technologies**

[www.idc-online.com](http://www.idc-online.com)

Phone 09 263 4759 (Between 12pm - 5.00pm)

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**Who is IDC Technologies?**

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