



Hydrogen Safety & Hazardous Areas Conference

4th & 5th December 2023
Sandton, South Africa

Speaker & Sponsorship Prospectus



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About IDC Technologies

In partnership with the Engineering Institute of Technology (EIT), IDC Technologies is internationally acknowledged as the premier provider of practical technology training and technical conferences. With offices in Australia, New Zealand, Singapore, United Kingdom, Ireland, India, USA, Canada, and South Africa, IDC Technologies and EIT have an enthusiastic team of professionals committed to providing the highest quality training and events.

Conference Management

Over the past 20+ years IDC Technologies has coordinated workshops and conferences around the globe. Each conference has a dedicated team of professional organisers who are committed to making that event a success. The aim is to have the highest caliber of speakers who will present an interactive program with real world examples, case studies and solutions.

We aim to provide conferences with niche topics, speakers and content.

IDC Events specialise in technology training in the fields of:

- Education and Training
- Electrical Engineering
- Mechanical Engineering
- Chemical Engineering
- Industrial Data Communications and Networking
- Information Technology
- Electronic Engineering

Visit: events@idc-online.com



Hydrogen Safety & Hazardous Areas Conference

An Overview

Given South Africa's ongoing problem with load-shedding, the importance of safe and reliable energy solutions has never been more critical. The Hydrogen Safety & Hazardous Areas Conference provides a valuable platform for industry experts and stakeholders to discuss and explore the latest developments in hydrogen-based energy and the associated safety considerations.

With South Africa looking to transition to more sustainable and reliable energy sources, hydrogen has emerged as a promising alternative. However, as with any energy source, it's crucial to ensure the safety of the systems and infrastructure involved. The Hydrogen Safety & Hazardous Areas Conference will cover risk assessment, safety management, and hazard mitigation, providing insights into the best practices and innovations in hydrogen safety.

The conference is particularly timely given South Africa's current power supply challenges, highlighting the need for more resilient and decentralized energy solutions. By promoting knowledge sharing and collaboration, the Hydrogen Safety & Hazardous Areas Conference can help accelerate the adoption of safe and sustainable energy solutions in South Africa and beyond.

Day one of the conference will concentrate on hydrogen. Hydrogen's cryogenic properties require additional engineering controls and understanding to ensure its safe use. Safe practices in the production, processing, transportation and utilisation of hydrogen are essential to protect direct stakeholders from injury or death. These practices are also necessary to prevent damage to equipment, facilities and surroundings.

Any potential accident or incident could negatively impact the public's perception of hydrogen as viable, safe, and a clean alternative to conventional energy systems - thus making it difficult to commercialise these developing technologies. Management is integral to ensuring that those who handle hydrogen and associated materials are aware of best practice to ensure their jobs are performed safely.

On day two of the conference presenters will share their expertise on the safe use of instrumentation, electrical and mechanical equipment in hazardous, flammable or explosive environments. The hazardous areas sessions will highlight new technologies, best practice, and outline the updates to standards and regulations designed to prevent accidents and injuries in the workplace.

The economic impact of accidents will also be considered when explosions and fires due to the ignition of flammable vapours, dust clouds or even static electricity are prevented.

Call for Papers

Are you a specialist in hydrogen or hazardous areas, working in the mining, utilities, oil, and gas, or industrial plants sector in South Africa? We invite you to submit a topic idea and present your paper at our upcoming conference, which is designed to promote best practices and practical solutions in this area.

This is an excellent opportunity to connect with your peers, share your experiences and insights, and build your professional network. Presenting at this conference can enhance your career prospects and raise your profile in the South

At IDC Technologies, our focus is on providing practical applications and solutions, so we're looking for case studies, applications, and the latest developments in this critical subject. The presentations are non-commercial, and we welcome contributions from technologists, technicians, project managers, development leads, consultants, and engineers.

Given the importance of safe and reliable energy solutions in South Africa, especially in the face of ongoing load-shedding challenges, this conference is an opportunity to showcase your engineering skills and promote the adoption of best practices in hydrogen and hazardous areas.

Take advantage of this chance to contribute to the South African engineering practice.



Topic Suggestions

RENEWABLE, GREEN & CLEAN HYDROGEN

SOURCES:

- Renewable Hydrogen sources
- Life cycle sustainability assessment
- Sustainable / environmentally friendly hydrogen
- Hydrogen as a strategy for climate change
- Hydrogen to replace fossil fuels
- Green hydrogen

HYDROGEN PRODUCTION & CONVERSION:

- Current production methods
- Production technologies
- carbon capture and storage
- Using fuel cells / pemtode
- Hydrogen blending in natural gas networks
- biological water splitting
- Water for hydrogen production
- Regional hydrogen hubs

HYDROGEN TRANSPORTATION & STORAGE:

- Hydrogen vehicles (buses / boats / cars)
- Fuel cell electric vehicles
- Hydrogen export and global markets
- Competing with conventional fuel
- The hydrogen supply chain APAC
- Hydrogen refueller stations
- Hydrogen projects for long haulage
- Compressed gas, liquid hydrogen, gas pipelines for storage

HYDROGEN APPLICATION:

- Practical vs Stationary Application
- Costs – is hydrogen cost effective and viable?

Topic Suggestions Hazardous Areas

HAZARDOUS AREAS

- 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
- Case histories of electrical incidents
- Organizational requirements of safety for hazardous areas
- Safety programs for hazardous areas
- Training
- Earthing and bonding in hazardous areas
- Functional safety & hazardous areas – SIL's (IEC 61508/61511)
- Variable speed drive installation methods and sizing
- Designing compressors
- IEC/EX compliance process/ requirements for equipment manufacturing
- Risk management
- Auditing techniques
- Electrostatic ignition of hydrocarbons
- Protection against ignition arising out of static, lightning and stray currents
- Potential ignition risks associated with combustible liquids
- Intrinsically safe barrier and cable calculations
- Exercises specific to gas, vapours and dusts
- Updates to ISO 80079:2016 - Explosive atmospheres - Parts 36, 37, 38: Non-electrical equipment for explosive atmospheres
- Gas detectors for risk reduction

Express Your Interest in Presenting

To Express an Interest

Please fill in the [Expression of Interest Form](#) and email conferences@idc-online.com

What is required of presenters:

- 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.

Presentations are allocated on topic suitability and on a first come first served basis. Please note, sales presentations are not accepted.

Sponsorship Packages

Gold Sponsorship

Includes:

- Complimentary attendance for 2 delegates includes catering for two days & attendance to networking drinks
- Signage displayed inside and/or outside the conference room
- Trade display in foyer (trestle table provided)
- Logo featured on conference brochure
- Logo on IDC website
- Logo on conference manual
- Seat drop – gift/promotional material
- A copy of the attendees post event
- Acknowledgement at opening and closing addresses
- Promotional material emailed to delegates post event.

R20,000

Silver Sponsorship

Includes:

- Complimentary attendance for 1 delegate for two days & attendance to networking drink
- Signage/banners displayed inside and/or outside the conference room
- Trade display in foyer (trestle table provided)
- Logo featured on conference brochure
- Logo on IDC website
- Logo on conference manual
- Seat drop – gift/promotional material
- Acknowledgement at opening and closing addresses
- Promotional material emailed to delegates post event

R15,000

Networking Drinks

Includes:

- › Complimentary attendance for 1 delegate for two days & attendance to networking drink
- › Naming rights of the networking drinks
- › A short speech to extend an invitation to the attendees during the conference closing address.
- › Signage/banners displayed in the space allocated for the networking drinks.
- › Logo on event webpage
- › Acknowledgement at opening and closing address

R10,000

Sponsorship Benefits

Attendee Profile

This conference will provide sponsors with the opportunity to build your own business network of engineering and technical professionals. It will give you the mechanism to increase your turnover through access to a clearly defined target market. Why waste valuable marketing resources trying to reach the right people, when they will be at your fingertips?

This conference is an important event which brings together experienced professionals to present papers and case studies highlighting and examining Hydrogen and Hazardous Areas safety, new technologies and standards. This conference will provide a unique opportunity for companies with products and expertise in this area to reach their market of key decision makers.

Decision Makers

A growing proportion of engineering and technical professionals are represented in most senior roles in industry, commerce and government. They are among the CEOs and Managing Directors of Australia's top 500 companies, as well as hundreds of dynamic small and medium enterprises around the country.

Industries

A multitude of industries will be present at the conference providing you with a wide range of exposure for your products and services. Some of the many industries that will be present include:

Aluminum	Energy	Petroleum
Building services	Petrochemicals	Water Resources
Consulting engineers	Food Processing	Pharmaceuticals
Defence Industries	Manufacturing	Power Generation
IT Companies	Mining and Minerals	Oil & Gas
Hotels and Resorts	Telecommunications	Hospitals
Environmental Technologies		

Sponsorship Benefits

An IDC Technologies Affiliation

Partnering with IDC Technologies at this conference will provide you with numerous benefits that can not be provided by other conferences or marketing activities. A business association with IDC Technologies will provide you with the opportunity to develop:

Influential Associations

IDC Technologies have the benefit of global recognition as the premier provider of engineering and technology training. Approximately 400,000 engineers and technicians have attended IDC training events over the last 20 years. Our valuable clients come from many of the world's leading organisations.

Growing Business Opportunities

Representing your business at this conference will provide you with the opportunity to reach large and small businesses and consequently direct and influence their decisions to purchase your products and services

Access to Key Decision Makers

Give yourself and your colleagues the opportunity to network with decision makers at the highest levels. In positions such as CEO, Managing Director, Engineering Director, General Manager, Engineering Manager, Chief Engineer and Senior Engineer; these individuals are involved in driving the direction of the company and making key purchasing decisions.

Access to Leading Engineering Professionals

Gain access to industry acclaimed engineering experts for your clients and colleagues. All of our guest speakers will be available for consultation during networking sessions.

A Competitive Advantage for Business

IDC Technologies has a proven track record with business partners. Through our involvement in conferences, workshops and education programs globally, we have built and expanded our business network and ultimately, increased our bottom line.

For more information or request an application form email conferences@idc-online.com