CALL FOR PAPERS

3rd Electrical Arc Flash Conference

Johannesburg, SOUTH AFRICA – 25th & 26th November 2015

Are you an engineering professional in the electrical industry? We are currently looking for a number of presenters to submit an abstract and present their papers at the upcoming **Electrical Arc Flash Conference**.

Due to the success of the 2010 and 2013 Arc Flash Conferences, IDC Technologies has the pleasure of bringing this industry leading event to you again in 2015.

ARC FLASH – WHAT IS IT?

An arc flash is the explosive release of energy occurring when there is a phase-to-phase or phase-to-earth fault. It can be caused by various reasons including accidental contact, unsafe work procedures, corrosion, insulation failure or conductive dust or moisture/liquids. Heat generated by an electric arc is capable of reaching temperatures of around 1000°C, which can cause a significant amount of damage. The rapid heating of the air and vaporization of the conductive metals creates an intense pressure blast which exposes the electrical worker to shrapnel, air, vaporized metal, intense UV exposure and heat. Typical injuries resulting from arc flash include: burns, blindness, deafness, broken bones, lacerated and burnt skin, and damaged internal organs which can result in death or serious permanent disablement and disfigurement, exacerbated by the heat and intense UV light.

THE CONFERENCE

Arc flash is arguably today one of the most topical issues being discussed in the electrical engineering community in South Africa and worldwide (especially in the mining, utilities and manufacturing areas). Technology and safety procedures have significantly reduced most other forms of electrical injuries; however incidents related to arc flash have surfaced as one of the leading causes of injury and death to workers. The technical aspects and physics associated with arc flash are still somewhat debatable and there have been some concerns about the physics of electrical arcing faults being significantly different to those established by the USA, with the NFPA 70E and the IEEE 1584 standards and the Canadian Standards Association (CSA) new arc flash safety standard CSA-Z462. Arc flash hazards are a contentious and critical issue in South Africa and never more topical.

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We are seeking speakers who have a desire to discuss the issues involved and want to help in reducing the number of arc flash incidents in South Africa. We need electrical professionals who are passionate about improving the procedures of arc flash safety in the industry.

At the conclusion of this conference we want our delegates to have a thorough understanding of arc flash hazards, analysis concepts and selection of appropriate personal protective equipment.

Suggested Topics on Arc Flash:

- Arc flash research and case studies
- Arc flash calculations
- Working distances and flash boundaries
- Arc flash assessments
- Practical solutions for reducing arc flash hazards
- Electrical hazards and effects on humans
- Data collecting and system modeling
- Personal Protective Equipment (PPE)
- Guidance on safe isolation procedures
- Isolator/disconnect switch techniques
- Isolator switch technology
- Flash protection approach boundaries
- Hazard risk category
- Codes and standards – overview, review and critique – NFPA 70E/IEEE 1584 /ESAA NENS 09-2004/ CSA-Z462
- Practical electrical isolation for the avoidance of arc flash risk and injuries
- **All Submissions Welcome**

What is required?

- A **100 word topic abstract** and title**,** which outlines the topic/proposed presentation. This needs to be submitted **no later than Friday 19th June 2015**, to secure a spot on the Program.

- For approved topics, **a 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.

For more information on this event, or to submit your topic abstract, please contact Conference Assistant **Joseph Madeley** joseph.madeley@idc-online.com

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