

# PROXIMITY DETECTION AND COLLISION AVOIDANCE SYSTEMS IN MINING COLLOQUIUM 2017

*Striving for zero harm from mining mobile machinery*



**20 April 2017**  
**Emperors Palace, Hotel Casino,  
Convention Resort Johannesburg**

Sponsor



## BACKGROUND

Considerable attention is being focused through the Department of Mineral Resources, the Mine Health and Safety Council, the mining companies and the original equipment manufacturers on the development and implementation of Proximity Detection Systems (PDSs) and Collision Avoidance Systems for underground and surface mobile machinery and underground track bound machinery. These initiatives are all in support of the quest by all stakeholders for reaching "zero harm".

Systems have been developed and trialled for vehicle to person detection and warning, vehicle to beacon, and vehicle to vehicle detection.

Technical challenges have been encountered in terms of the various system reliability and pedestrian/operator acceptance, as well as the application on diesel powered and electric powered machinery, respectively.

Whilst it is the intention to regulate this area in the near future, it is important that the various issues that could be problematic to implementation be aired and solutions found.

## OBJECTIVES

With the impending introduction of legislation, it is important that mining companies, OEMs and operators understand the implications of the legislation. It is also important that if there are issues that still require research and development, that these be identified and resourced.

Furthermore, very important Human factors need to be understood and addressed by all the stakeholders.

The Southern African Institute of Metallurgy is an Independent and Professional organization, that can, through this conference, offer an impartial and facilitated platform, that will allow open and frank discussion based on real case study experiences.

Sessions will therefore consist of Keynote speakers from various stakeholders, industry case studies, and discussion groups.

## WHO SHOULD ATTEND

- The Department of Mineral Resources
- The Department of Science and Technology
- Organised Labour
- Mining Companies
- Mine Managers
- Engineers and Technologists
- The Mine Health and Safety Council
- The MOSH Learning Hub
- CSIR
- The Mining Precinct
- OEMs
- Suppliers
- Researchers
- Universities
- Mine Health and Safety practitioners and representatives.

## TOPICS

- The legal perspective and impending legislation
- R&D progress
- Case studies : successes and failures
- Human Factors
- Stakeholder views
- Leading practices
- International leading practices

## SPONSORSHIP

Sponsorship opportunities are available. This will include exhibition space where suppliers and OEMs are encouraged to demonstrate their systems. Companies wishing to sponsor or exhibit should contact the Conference Coordinator.

## CALL FOR PAPERS

The conference will consist of a series of presentations and discussion sessions, as well as exhibits.

Presentations are invited on the above topics, and for these, brief abstracts should be submitted to the Conference Coordinator

## KEY DATES

Submission of Abstracts 28 February 2017  
Conference 20 April 2017

FIRST ANNOUNCEMENT & CALL FOR PAPERS



**SAIMM**  
THE SOUTHERN AFRICAN INSTITUTE  
OF MINING AND METALLURGY

## FOR FURTHER INFORMATION CONTACT:

Conference Co-ordinator: Camielah Jardine, SAIMM  
Tel: +27 11 834-1273/7 • Fax: +27 11 833-8156  
E-mail: camielah@saimm.co.za • Website: <http://www.saimm.co.za>



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## PERSONAL DETAILS

Title ..... First Name ..... Other Initials ..... Surname/Family Name .....

Preferred Name (for use on name badge) .....

Company ..... Designation .....

Company VAT Registration (**Compulsory—SA companies**) ..... Order No .....

Invoice Address .....

..... Code ..... Country .....

Tel/Cell: ..... Fax: ..... E-mail: .....

SAIMM Membership No. .... Are you a presenting author? ..... Do you require an invitation for visa purposes? .....

**Please note: Non-members who have not previously been members of the SAIMM are entitled to free membership up to 30 June 2018, for attending this Conference.**

**Would you like to become a member of SAIMM?  
Please indicate by (✓ tick)**

## REGISTRATION FEES — All prices are inclusive of VAT.

Please indicate your choice by (✓ tick).

	Registration fees	
Author	R4 000	<input type="checkbox"/>
SAIMM Members	R4 999	<input type="checkbox"/>
Non Members	R5 999	<input type="checkbox"/>
Students/Retired Members	R2 500	<input type="checkbox"/>

Registration fees include attendance at technical sessions, cocktail parties, all refreshments and lunches, abstract booklet with CD of all papers presented at the conference, and delegate material.

### Cancellation and transfer policy:

Delegates unable to attend the event may send a substitute delegate in their place. Please send written details of substitution. Written cancellations must be received more than 10 working days prior to the date of the event and will be liable for 50% of the event fee. Failure to cancel, or cancellation received 10 working days or less prior to the event date, will result in liability for the full event fee.

## SOCIAL FUNCTIONS

### ■ Welcome cocktail party (20 April 2017)

Please indicate (✓ tick) for catering purposes if you will be attending this function (included in the registration fee for all fully registered delegates and students).

**Payment required for additional guests only R250 each**

YES  I will be attending (registered delegates) N/C

### ■ Special requirements — Please advise of any special requirements for diet, health or physical disabilities.

## PAYMENT

Please include payment itemised as follows:

Conference registration fee R .....

### Social functions:

Cocktail function R250 (guests) R .....

**TOTAL R** .....

**Cheques**—Please find enclosed a cheque/money order (in SA rands) payable to SAIMM or

**Credit Cards**—Please debit (✓ tick) my:

Visa  Mastercard  American Express  Diners Club

Card No.

CVC authorisation (last 3 digits on the back of the card)

Expiry date: .....

Signature: .....

Please print name of cardholder:

.....

### Payment:

Full payment is due on application for registration. Registration will be confirmed **ONLY** after payment is received. **PROOF OF PAYMENT** with your invoice number reflected must be sent via fax or e-mail to the Conference Co-ordinator. Delegates who have not paid will not be permitted to attend the conference.

### Our banking details are:

Bank: Standard Bank	Branch: Johannesburg
Branch Code: 000205	Account No: 000402974
Account Type: Cheque Account	Swift No. SBZAJJ

**1 ECSA CPD points will be allocated to all attending delegates**

**FOR FURTHER INFORMATION CONTACT:**

Conference Co-ordinator: Camielah Jardine E-mail: [camielah@saimm.co.za](mailto:camielah@saimm.co.za) Tel: +27 11 834 1273/7 [www.saimm.co.za](http://www.saimm.co.za)