

# Global Mining Standards and Guidelines Group

*Creating community to drive operational excellence*

[www.globalminingstandards.org](http://www.globalminingstandards.org)

**Tuesday · 27 September 2016**

Emperors Palace, Hotel Casino Convention Resort, Johannesburg

## Underground Mining Forum

*Underground Communications Infrastructure &  
Battery Electric Vehicles Underground*

### Invitation

GMSG will be hosting a forum on September 27, 2016 for the Underground Mining Working Group, taking place on the grounds of the University of the Witwatersrand at the WITS CLUB.

The targeted participants include underground mine operators, mine planners, mine IT workers, engineering, procurement, and construction management (EPCM) contractors and related vendors.

### Objectives

The workshop will be an opportunity to review the work by the Underground Communications Infrastructure subcommittee and to continue the development of a guideline. This is an opportunity to ensure any regional priorities are considered in the work. This guideline will be a formal set of documents to be used by the mining industry as a reference for the frameworks, standards, processes and procedures supporting digital communications in an underground mine environment.

The second focus of the workshop will be a roundtable discussion about one of GMSG's newest projects, the Electric Mine: Battery Electric Vehicles Underground. It will include a review of work-to-date, from workshops in Toronto, Brisbane and Sudbury as well as the project plan focused on the aggressive target of a draft guideline by year-end. The session will be an ongoing discussion to examine how to determine the tools, processes, and standards required to enable electric mobile mine equipment in the underground mine with the goals of eliminating diesel particulates and driving down the soaring costs associated with ventilation and cooling.

**REGISTRATION FREE — THERE IS NO REGISTRATION FEE BUT BOOKINGS ARE ESSENTIAL FOR CATERING PURPOSES**

### REGISTRATION FORM

NAME: .....

COMPANY: .....

DESIGNATION: .....

POSTAL ADDRESS: .....

POSTAL CODE: .....

TEL:..... MOBILE: .....

E-MAIL:..... SAIMM MEMBERSHIP NO.: .....

For further informaton contact: Head of Conferencing, Raymond van der Berg  
Tel: +27 11 834-1273/7 · E-mail: [raymond@saimm.co.za](mailto:raymond@saimm.co.za) · Website: <http://www.saimm.co.za>

Partner  
Organizations



**AusIMM**  
THE MINERALS INSTITUTE

**SME**  
Society for  
Mining, Metallurgy  
& Exploration



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

## FORUM PROGRAMME:

<p>08:30–09:00 <b>Registration</b></p> <p>09:00–09:30 • <b>Anti-Trust</b> • <b>Introductions</b> • <b>Safety share</b></p> <p>09:30–11:00 <b>GMSG: UG Communications Infrastructure: Review of Guidelines documents</b></p> <ol style="list-style-type: none"> <li>1. Format and content of the 3 documents to date</li> <li>2. <b>Section 1:</b> Positioning and Needs Analysis               <ol style="list-style-type: none"> <li>a. Document is in final draft; recommendations for final review</li> </ol> </li> <li>3. <b>Section 2:</b> Solutions and Architectures               <ol style="list-style-type: none"> <li>a. Examples of different infrastructure topologies                   <ol style="list-style-type: none"> <li>i. Homogeneous vs. Heterogeneous (Hybrid) - e.g. blending fiber, WIFI and hybrid leaky feeder</li> <li>ii. Scenarios/Examples — do these examples provide clarity in possibilities?</li> </ol> </li> </ol> </li> </ol> <p>11:00–11:15 <b>Coffee Break</b></p> <p>11:15–12:45 <b>Review of Guidelines documents (cont.)</b></p> <ol style="list-style-type: none"> <li>4. <b>Section 3:</b> General Guidelines       <ol style="list-style-type: none"> <li>a. Identifying the type of content for this sub-section</li> <li>b. Providing details for each sub-section</li> </ol> </li> <li>5. Additional section's titles and content that would be appropriate</li> </ol> <p>12:45–13:00 <b>Review Deliverables, Action Items, and lessons learned</b></p> <table border="0" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th style="text-align: left;">Title</th> <th style="text-align: right;">Draft Release Dates (estimate)</th> </tr> </thead> <tbody> <tr> <td>1. Positioning and Needs Analysis</td> <td style="text-align: right;">9/1/2016</td> </tr> <tr> <td>2. Solutions and Architectures</td> <td style="text-align: right;">11/1/2016</td> </tr> <tr> <td>3. General Guidelines</td> <td style="text-align: right;">Q1, 2017</td> </tr> <tr> <td>4. Business Development</td> <td style="text-align: right;">Q2, 2017</td> </tr> <tr> <td>5. Planning, Deploying and Support considerations</td> <td style="text-align: right;">Q3, 2017</td> </tr> </tbody> </table>	Title	Draft Release Dates (estimate)	1. Positioning and Needs Analysis	9/1/2016	2. Solutions and Architectures	11/1/2016	3. General Guidelines	Q1, 2017	4. Business Development	Q2, 2017	5. Planning, Deploying and Support considerations	Q3, 2017	<p>13:00–13:30 <b>Lunch</b></p> <p>13:30–14:30 <b>GMSG: Electric Mine Project: Review of Guidelines documents</b></p> <ul style="list-style-type: none"> <li>• Background of project and work done to date</li> <li>• Questions/comments</li> </ul> <p>14:30–15:30 <b>Break-out Groups: Review draft work</b></p> <ul style="list-style-type: none"> <li>• What is missing?</li> <li>• Stakeholder identification: companies and individuals to engage in project review</li> <li>• Regional focus: particular aspects, requirements to be considered</li> </ul> <p>15:30–16:00 <b>Electric Mine Wrap-up</b></p> <ul style="list-style-type: none"> <li>• Break-out group reports</li> <li>• Next steps: engagement in Guideline review, revision, implementation</li> </ul> <p>16:00 <b>End of Day</b></p> <p><b>Facilitators:</b> Declan Vogt—<i>University of the Witwatersrand, Director of the Centre for Mechanised Mining System Automation, GMSG, SAIMM representative</i></p> <p style="margin-left: 20px;">Riaan van Wyk—<i>Detnet, Chief Technical Officer, GMSG, Co-Leader, Underground Mining Working Group</i></p>
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