



# Mining for the Future 2016

*The Future for Mining starts Now*

**12–13 September 2016**  
**Electra Mining**  
**Nasrec, Johannesburg**

## BACKGROUND

Globally the mining industry is in a crisis with declining productivity and many mining operations are no longer sustainable at the current commodity prices. The mining organisation as we know it will have to change and become agile to adapt to uncertainty relating to commodity prices, more difficult ore bodies, skills shortages and growing expectations from all stakeholders. New technologies, mining methods, organisational design philosophies, scenario planning, big data and the digital revolution are all opportunities for the mining industry to reinvent itself.

## ABOUT THE EVENT

The Southern African Institute of Mining and Metallurgy brings you two days of high impact Forums with top industry Keynote speakers talking about the concept of Mining for the Future. Panel discussions, case studies and networking opportunities will bring the future of mining to you now. Join the Forums to interact and network with industry thought leaders and experts who will discuss topical issues and solutions that work now. Register to attend one or all three forums at a cost of R450.00 per forum.

## WHO SHOULD ATTEND

- |                           |                       |
|---------------------------|-----------------------|
| ⊙ New Technology Managers | ⊙ Mine Managers       |
| ⊙ IM Managers             | ⊙ Safety Managers     |
| ⊙ CEO                     | ⊙ Engineering Manager |
| ⊙ COO                     | ⊙ HR Managers         |
| ⊙ R&D Managers            | ⊙ MTS Managers        |
| ⊙ Resource Managers       | ⊙ Solution Architects |
|                           | ⊙ Mining Consultants  |

## Forum 1 Sponsor



## Forum 2 Sponsor



## Forum 3 Sponsor



## Exhibitor Sponsors



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## EXHIBITION/SPONSORSHIP

Sponsorship opportunities are available. Companies wishing to sponsor or exhibit should contact the Conference Co-ordinator.

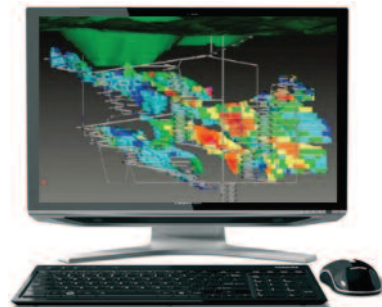
*Conference Announcement*

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## Forum Topics

12 September 2016

FORUM 1  
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### Mining 4.0 – The Connected Mine

The world has entered the digital revolution and what is often termed Industry 4.0. The advent of smart connected devices, the Internet of Things (IoT), wearables, virtual and augmented reality, the Cloud and Software as a Service (SaaS) will result in an explosion of data and big data analysis to generate valuable insights. How will the mining company of the future leverage this digital revolution to generate actionable insights that will enhance decision making and optimise planning and operational performance? This forum session will look at how this digital revolution can be applied to safety, decision making, operational optimisation, planning and overall a more competitive industry that maximises returns for all stakeholders.

#### Forum 1 Topics

- ⇒ Keynote - What opportunities exist for mining with the Digital Revolution?
- ⇒ Global Connectivity in Mining
- ⇒ PLM in Mining — learning from the automotive industry
- ⇒ The Mining Organisation of the future

Panel discussion — The value proposition of the connected mine

FORUM 2  
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### The High Tech Mine

There are a range of new equipment that have been released or are in development that will improve unit productivity and system productivity. Machines that can operate semi-autonomously during periods when operators are not available such as during blasting or shift change-overs increase utilisation. Flexible machines that can cut hard rock, enable continuous mining, which will allow hard-rock mines to emulate the productivity improvements already seen in coal.

Together with novel mining methods and layouts this equipment has the opportunity to drastically improve safety, productivity levels and reduce cost to maximise return to all mining stakeholders.

#### Forum 2 Topics

- ⇒ Keynote - Mechanization — What does it mean for future mining
- ⇒ Imaging your mine in real time
- ⇒ High tech shaft sinking
- ⇒ Automation: the next steps

Panel discussion — Implementing new technology

13 September 2016

FORUM 3  
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### Mining – The Future Mine Now

While the first two forums have concentrated on possibilities of new operations management and new technologies, the last forum looks at how to make it happen. Senior executives from mining companies that are already well down the road to the future mine, together with an operations management expert and a technology management expert from the Department of Science and Technology will present views on how to move the mining industry and South Africa into a new paradigm for mining.

#### Forum 3 Speakers

- ⇒ G. Smith, *Anglo American Platinum*
- ⇒ B. Gerrits, *DST*
- ⇒ P. Pretorius, *GIBS*
- ⇒ P. Turner, *Sibanye Gold*



Please see preliminary programme for more details

