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Africa mine site security

International Conference: 21 – 23 October 2013
Interactive workshop: 21 - 22 October 2013
Nairobi Serena Hotel, Kenya, West Africa



Top speakers

- **Bruce Braes**, *PMC Risk Manager, Organisational Resilience*
- **Brian Gonsalves**, *VP Global Security, Anglo Gold Ashanti*
- **Jenny Reid**, *President, SASA*
- **Brian Ward**, *Head of Security, Anglo Gold Mine*

Benefits of attending or Focus day / workshops

- Improving site security with technology
- Preventing personnel security breaches
- Incorporating security into the overall operations of the mine
- Developing security strategies
- Recognising African threat levels
- Determining a controlled framework

Hear From The Professionals

- **Mr Manabela Chauke**, *Chief Executive Officer, PSIRA (Private Security Industry Regulatory Authority)*
- **Mrs Jenny Reid**, *President, S.A.S.A, Security Association South Africa*
- **Mr Washington Mandizha**, *Risk Security and Loss Manager, Metallon Gold Zimbabwe*
- **Mr Mark Lee**, *Regional Security Director, Newmont Gold, Ghana*
- **Mr John Makoni**, *Chief Security Officer, Rio Tinto Zimbabwe*
- **Mr Brian Ward**, *Head of Security, Anglo Gold Mine*
- **Mr Colin Steyn**, *Regional Director of Security, Geita Gold Mines*
- **Mr Ndaba Ndlovu**, *Head of Protection, Anglo American Platinum*
- **Mr Jacques Erasmus**, *Head of Safety, Lonmin Platinum Mine*
- **Mr Gerry Nel**, *Group Security Manager, Petra Diamonds*

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Dear Mining Professionals,

Security is vital in mining operations: to protect the value commodities, expensive machinery and create a safe working environment. Keeping massive mine sites secure from intruders poses large logistical and technological challenges for operators. This is why Mining IQ is launching a Secure Mining conference.

It will offer a platform for Security Managers, Security Superintendents, Heads of Health, Safety and Security including Risk Managers to benchmark their work in corporate security.

The event will tackle some of the most persistent, but not unsolvable issues in mining security:

- Improving site security with technology
- Preventing personnel security breaches
- Incorporating security into the overall operations of the mine

Join us at Secure Mining Conference 2013 where You will have the opportunity to take away valuable knowledge and thorough insight on the latest developments.

I am looking forward to seeing you in Kenya.

Best Regards,



Stanley Anthony Kirton
Conference Director – West Africa Mining Portfolio
LSE Division



The mining industry has a long history of innovation in technology.

From exploration to production, sales and logistics, mining companies have harnessed technology to bring greater accuracy, and automate processes to introduce ever-greater efficiencies.

More recently, the industry has begun to pioneer new approaches for the use of smart card technology to secure assets and operations.

In the past, mining organisations typically relied on multiple credentials and access control systems to fulfill different tasks, resulting in the proliferation of single-purpose systems running in parallel. In addition to being resource-intensive, disparate access control and security systems do not scale and can be costly to integrate.

A consolidated strategy is therefore crucial.

Today, the focus has moved to converged systems capable of securing a wide range of sensitive sites and assets, including heavy equipment and transportation.

Meeting multiple challenges at scale

Aside from hazardous materials and harsh working environments, numerous factors expose miners to significant risk. Remote sites, limited local infrastructure and geopolitical instability make installations susceptible to malicious attack.

Any security breach has the potential to endanger staff, damage the local environment and disrupt production.

These factors are magnified by the scale of the operation involved.

Companies must have the necessary infrastructure to quickly and positively identify each individual, issue each individual with the required credentials, and restrict movements on-site according to the access rights demanded by the individual role and corresponding credentials.

Besides taking into consideration all of the policies and processes of an organisation, there are two major aspects to consider when managing and controlling access to information and resources: Physical access to sites - This is often delivered via hardware and software components including access control readers, which are autonomous devices performing the single purpose of interfacing with credentials. Logical access to computer networks - Information technology access control procedures that restrict a user's ability to interface with computing and networked resources and data.

These procedures include secure authentication, encryption, single sign-on, and remote VPN access.

Logical credentials are virtual or knowledge-based 'tokens', such as a password or PINs and for enhanced security, a physical credential might also be employed for another layer of authentication.

Physical credentials include security tokens such as key chains and USB devices, but smart cards have become the mining industry's standard.

A pipeline of practical solutions

Still, there is no 'one size fits all approach' to a comprehensive smart card, and identity and access management, strategy for the industry.

Accordingly, there are a host of factors that introduce site specific vulnerabilities, such as the level and type of threats faced, and the physical environment.

For example, some facilities will be particularly challenged by environmental factors such as heat, dust, and risk of explosions and these conditions may require rugged wireless access control solutions.

In the office environment, the risk of a physical attack or accident may be lower, but the threat to information security is may be greater.

In this case, a physical credential may be preferred to combine PC logon security (logical access) and physical access onto a single portable smart card.

This combined solution increases logical security while also resulting in cost savings since the same credential can be used for multiple applications across the site.

However, consolidated strategies entail more than simply the credential and the control reader.

To ensure a balance between convenience and security, access rights should be centrally managed, and a holistic approach that integrates operational support systems, network infrastructure and facility management solutions should be taken.

Smart cards have become a solution of choice for mining applications because they guarantee higher levels of cryptography and security than those that are typically offered by legacy proximity card solutions.

It enables the same credential to be used for many other applications, such as equipment vending machines that enable management to keep track of who has what safety equipment at a given site, or touch screen training systems that record essential health and safety data.

Additionally, large mining companies should consider their requirements based on the national and/or worldwide footprint of their various facilities.

For these organisations, an identification and access management system must be capable of being deployed across continents, integrated with a wide variety of host systems and adaptable to include additional country or site-specific security measures.

The importance of securing mining assets is unlikely to diminish.

For more information or to register –
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Conference day one - 21 October 2013

08:00 Registration and morning refreshments

08:30 Opening Address by the Conference Chair
Mr Bruce Braes, PMC Risk Manager, Organisational Resilience

Corporate security breaches - Internal fraud vigilance

08:45 Identifying discontented fraud risk systems – Solutions for a multi-billion dollar problem

- Reducing fraud risk opportunity – Finding the needle in the hay stack
- Developing protocols to identify the creation of malcontent communication
- Establishing infrastructure protection – Leading loss prevention procedures
- How fortified are your barriers – How to incorporate action plans into your strategic planning

KEYNOTE ADDRESS

Mr Manabela Chauke, Chief Executive Officer, PSIRA (Private Security Industry Regulatory Authority)

09:30 Eliminating the flawed security barriers through effective early crime detection

- Systematic crime prevention through best practice intelligence – Utilising the hotspot matrix
- Superior controlled security operations - Implementing data-mining for security and criminal detection
- Developing procedures to help you keep unauthorised access to a minimum

KEYNOTE ADDRESS

Mrs Jenny Reid, President, S.A.S.A – Security Association South Africa

10:15 Effective training programs supported by management for definitive Monitored Theft Prevention (MTP)

- Advancing the frontiers of intelligent training – Recognising technology requirements to meet your security objectives
- Red Flagg Detection Program – Results to date?
- Ensuring the safety of all operations – How to efficiently monitor all areas and activities in hazardous environments
- Integrating all safety, security, and communication solutions
- How to build a management system for a secure mining platform

Mr Mark Lee, Regional Security Director, Newmont Gold - Ghana

11:00 Morning refreshments and networking

11:30 Think secure – Policies and procedures to improve security and staff awareness at Rio Tinto Zimbabwe

- Ensuring workers are aware of the implications and their responsibilities
- Implementing a standard security policy surrounding the use of technology devices
- Enabling staff to have better access, but with improved security through classification, employee markings and policy around how it can be utilised
- Developing and implementing a governance framework to deliver policies, procedures, management standards and work instructions

CASE STUDY

Mr John Makoni, Chief Security Officer, Rio Tinto Zimbabwe

Technology Integration, Implementation and Improvement

12:15 Manual labour versus automated technological security – The next generation in Mining

- Holistic, monitored, security – recognizing the potential value for wireless intelligent system integration throughout the internal mining chain
- Stressing technical innovation and globalisation – How to decrease labour unrests
- Design, build and deploy mining robots, robotic tools

KEYNOTE ADDRESS

and autonomous technological security - strategies to increase production capacity

- Mine site security encompassing risk management, business continuity and direct access security - How to apply a tactical and understandable complete operational infrastructure on senior level

Mr Brian Ward, Head of Security, Anglo Gold Mine

12:30 Lunch, networking and exhibition viewing

13:45 Mandatory technology transfer for improved security and improved effectiveness

- Relying on change management principles - How to adopt an engineered approach to the problem
- Sequential stepwise programmes - Establishing the correct motivation models for macro-change in a transparent manner
- How to reinforce back-up strategies to enhance existing technological security platforms

Mr Brian Gonsalves, VP Global Security, Anglo Gold Ashanti

14:30 Goldfields Protection services adoption challenges, improvements and up to date results

- Detailing the crime syndicates through different crime levels
- Analysing asset theft on Goldfields mine
- Discussing crime prevention strategies through effective criminal justice, biometrics, technologies and law enforcement models

Mr Nash Lutchman, VP Security, Goldfields

15:30 Managing mobile and remote workers

- Setting clear policies with agreed-upon expectations at the outset
- Implementation of a fully automated controlled centre to secure effortless management
- Finding the right technologies for employees to fluently telecommute
- Ensuring the manager and employee accountability for a solid management platform

Mr Colin Steyn, Regional Director of Security, Geita Gold Mines

16:00 Envisioning the future of mine security of a full automated mine

- Increased production rates, safer operations and high profit margins - The rise of the robot era
- Innovative business models for an efficient smarter, simpler faster infrastructure
- Identifying crosscutting security technologies – The future mine security roadmap
- Emphasising the imperative role that security will play in the future – How to enable new capabilities in the mining business

Mr Ndaba Ndlovu, Head of Protection, Anglo American Platinum

16:30 Networking Drinks Reception

Close of conference day one

17:00 Live Benchmarking Masterclass – Analyse your current strategy, benchmark against industry, apply scenarios and revisit core assumptions

- Setting the standards between internal administrative security measures and corporate affairs
- A comprehensive GAPS analysis will be formulated within group sessions and best practice metrics analyzed
- Unveiling your current scenario and live discussion on possible solutions
- Revisit core assumptions

Mr Josua Bekker, Mine Manager, Khutala Colliery, BHP Billiton

Mr John Makoni, Chief Security Officer, Rio Tinto Zimbabwe

MASTERCLASS A

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Conference day two - 22 October 2013

08:00 Registration and morning refreshments

08:30 Opening Remarks from the Chairman

Corporate governance, regulation and legislation – The red flags triggers

09:00 Developing a multilateral strategy for an effective Mining Security Operation (MSO)

- Enforcing mining surveillance, intelligence and information sharing – How to achieve maximum security fortification
- Implementing successful operational procedures to reduce risk and maximize security
- Securing technology necessities – Do you comply?
- Improving your current security blueprint without cost implications

Mr Deon Vorster, *Security Manager, De Beers Diamonds*

09:30 Digging deeper to improve the impact of corporate and political governance

- Implementing calculated models in conjunction with the current compliance framework
- Developing fluent communication channels
- Installing a holistic approach that integrates operational support systems, network infrastructure and facility management solutions

Mr Jacques Erasmus, *Head of Safety, Lonmin Platinum Mine*

10:15 Successfully installing motion detectors in remote areas

- Analysing a variety of technologies and access controls to ensure the safety of mine site facilities and workers
- Ensuring that technology, safety procedures and mine site personnel all are integrated in every facet of a security program
- Connecting the remote location to the central monitoring station
- Choosing the best technology that will withstand the hazardous conditions on a mine site

Mr Francois Peacock, *Head of Risk and Security, First Quantum Minerals*

11:00 Morning refreshments and exhibition viewing

11:45 Ensuring resource protection focused security

- Balancing between convenience and security
- Developing centrally managed access rights
- Installing a holistic approach that integrates operational support systems, network infrastructure and facility management solutions

Mr Bruce Braes, *PMC Risk Manager, Organisational Resilience*
Mrs Jenny Reid, *President, S.A.S.A, Security Association of South Africa*
Mr Gerry Nel, *Group Security Manager, Petra Diamonds*

12:15 Lunch, networking and exhibition viewing

Controlled frameworks through intelligent security

13:15 Operational Continuity – Controlled frameworks in order to minimize cost and maximize defense

- Enforcing staff compliance with business policy - How effective is your framework?
- Determining the base set of policies for a sustainable achievement of an integrated defense of resources and assets
- Outlining best practice security – Focusing on the functions, roles and responsibilities
- How to define the skills and knowledge for staff to perform most effectively within the framework

Mr Washington Mandizha, *Risk Security and Loss Manager, Metallon Gold Zimbabwe*

14:00 Optimal security results through a tactical intelligence security operation

- Identifying that threat is the key driver to develop effective security measures for optimal operations
- Analysing global indices relating to the region, including corruption, drug trafficking, natural hazards and cases of crisis, crime, fraud, and misconduct
- Corporate direction within a diverse and increasingly significant region - How to align your angle

Donovan Waller, *Head of Automation and Remote Control Technology Development, Anglo American*

14:30 Analysing the African threat environment

- Understanding what are the current and potential threat levels
- Analysing strikes and cases of crisis – How to neutralise future threats
- Identifying the role of negotiation management through early red flag threat detection
- Increasing the daily internal reevaluation – how to ensure administrative prevention of security breaches

Mr Washington Mandizha, *Risk Security and Loss Manager, Metallon Gold Zimbabwe*

15:00 Interactive Session:

An open discussion forum for delegates to discuss and debate unanswered questions and possible solutions to challenges faced. An opportunity to get more technical insight from industry professionals including an addition of the panel to assist. The panel will include:

Mr Manabela Chauke, *Chief Executive Officer, PSIRA (Private Security Industry Regulatory Authority)*
Mrs Jenny Reid, *President, S.A.S.A, Security Association of South Africa*
Mr John Makoni, *Chief Security Officer, Rio Tinto Zimbabwe*
Mr Ndaba Ndlovu, *Head of Protection, Anglo American Platinum*

15:45 Security and social risk management – Measuring information security alertness

Mr Francois Peacock, *Head of Risk and Security, First Quantum Minerals*

16:15 Close of Conference and Chairs Comments

Mr Bruce Braes, *PMC Risk Manager, Organisational Resilience*

16:30 Networking Drinks Reception

17:00 Technology rollout – Assessing your business case, analyzing the roll-out strategy, implementing metrics and improvement points

Facilitator/s:
Mr Brian Gonsalves, *VP Global Security, Anglo Gold Ashanti*
Mr Manabela Chauke, *Chief Executive Officer, PSIRA (Private Security Industry Regulatory Authority)*





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Nairobi Serena Hotel,
Kenya, West Africa

Secure Mining Africa 2013 is the leading mine site security conference specifically focused on physical, both above and below the ground mine in Africa. This leading event continues to provide solutions to site challenges and risks facing the entire mining operations chain. The conference is designed to address the critical security activities internally and externally faced by mining professionals on a daily basis in Africa. **Hosted in 2013 in Kenya from the 21-22 October 2013.**

Who will you network with at Secure Mining Africa 2013:

This is a must attend event for senior decision makers in industry a, b, c, and d. Job titles include:

- Security Managers
- Heads of Risk & Safety
- Heads of Security
- Heads of Health
- Security Superintendents

All senior level personell from a mine site security, operations and logistics perspective

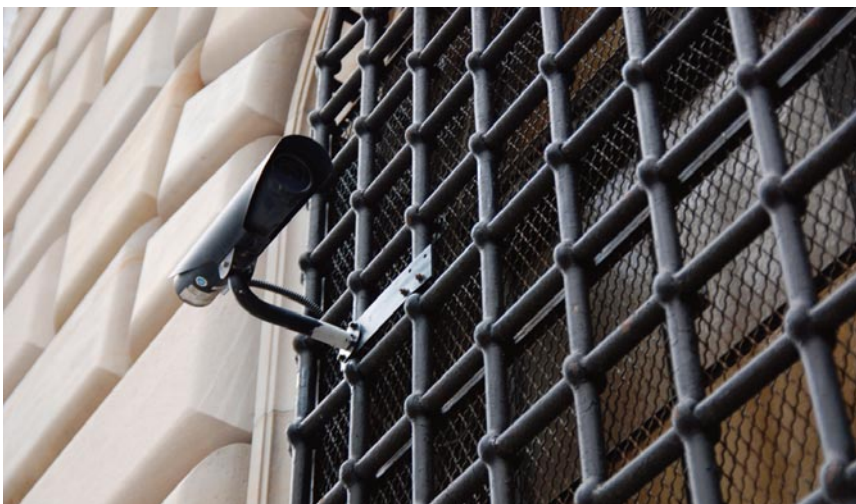
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21 - 22 October 2013

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