

# MiningCSI

Local Economic Developments by Mines

Volume 11 • 2015



## INVESTING IN AFRICAN MINING INDABA 2015

Former Mineral Resources Minister Susan Shabangu addressing delegates during 2014 Mining Indaba

### ALSO IN THIS ISSUE:

**STEVE TSHWETE LOCAL MUNICIPALITY** – Partners with Anglo American on Community Projects

**DEPARTMENT OF MINERAL RESOURCES** – Hosted Mine Health & Safety Summit

**SIBANYE GOLD** – Give opportunities to Majuba TVET College Graduates

**STONE PAPER** – Made out of Mine Waste Dump

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- The **Cyril Ramaphosa Education Trust** provides bursaries to disadvantaged students and organises holistic holiday work programmes for all its students.
- **The Shanduka experiential work programme** provides opportunities for selected graduates and job seekers within the Shanduka Group and across its partner network.

Thanks to the ongoing support of many partners in business, government and civil society, Shanduka Foundation is making a significant impact in the lives of young South Africans.

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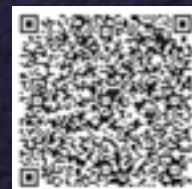
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## *Investing in African Mining Indaba 2015*

It's that time of the year when the Mining Indaba hits Cape Town. The 21st annual Investing in African Mining Indaba takes place on 9 to 12 February this year, and is expected to draw more than 7000 delegates from 110 countries.

South Africa's Minister of Mineral Resources, Advocate Ngoako Ramatlhodi, hosted a summit on Mine Occupational Health and Safety in November 2014. The theme was "Every mine worker returning from work unharmed everyday: striving for zero harm". It is encouraging to see a new minister taking the issue of safety seriously by engaging the mining industry at the highest level. Read more about this on page 4.

There is nothing more refreshing than to hear stories of successful collaborations between the mining sector and our public institutions. Majuba TVET College has partnered with Sibanye Gold Mine where

they successfully placed ten graduates at Sibanye Gold Academy's Engineering Campus in Gauteng. The college is very proud of its achievements and is inviting more in the mining sector to assist in placing the graduates in their internship programmes. Should your mine be in need of graduates you may want to consider contacting them. Read more on pages 14 – 17 of this issue.

While on the subject of collaborations, Steve Tshwete Local Municipality (Middelburg, Mpumalanga) under leadership of the Executive Mayor, Mike Masina has partnered with Anglo American during the 16 Days of Activism for No violence toward Women and Children. This campaign is aimed at protecting the most vulnerable in our society. Please read more about this exciting municipality on page 8.

Mining CSI is proud to partner with UNICEF South Africa. UNICEF is well known for their projects championing children's rights all over the world. Read more about UNICEF on page 12. Can any mining company make Zinhle's studying dream come true? In an unprecedented step Mining CSI decided to place a touching letter from Zinhle's friend and mentor, Nondumiso. See page 7 for more information.

Hope you all enjoy this issue and may 2015 bring the best out of our mining sector for the benefit of all South Africans and our economy. And see you all at the Mining Indaba!

Enjoy the magazine!

*Moses Sibiya*

Managing Editor





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mineral resources

Department:  
Mineral Resources  
REPUBLIC OF SOUTH AFRICA

# *Mine Occupational Health and Safety Summit*

held in Association  
with Department of  
Mineral Resources  
on 18 & 19 November 2014

*Minister of Mineral Resources, Adv Ngoako Ramatlhodi*

The Department of Mineral Resources and the Mine Health and Safety Council will hosted the 2014 Mine Occupational Health and Safety summit under the theme:

***“Every Mine worker returning  
from work unharmed every day:  
Striving for zero harm”***

**T**he Mine Health and Safety Council (MHSC), as per the mandate of the Mine Health and Safety Act of 1996 as amended, coordinated the tripartite (Government, Employers and Organised Labour) summit to review the state of the mining sector's occupational health and safety (OHS) matters.

In 2003, following the review of the performance of the mining sector in OHS matters, the principals of the tripartite stakeholders (Employers, State and Organised labour) agreed that more drastic approaches were needed collectively and individually to improve the performance of mines in terms of OHS matters.

The summit in 2011 reaffirmed the commitment to zero harm. Principals strengthened this commitment with the launch of the Culture Transformation Framework and the pledge on the Centre of Excellence.

The Summit gave structure and strengthened focused collaborative efforts in dealing with the mine health and safety issues facing the mining sector over the next ten years and therefore the Minister of Mineral Resources Adv. Ngoako Ramatlhodi encouraged all stakeholders in the mining sector to participate says.

At the MHSC summit in 2008, the milestones from 2003, were supplemented with an action-plan based on three pillars focussing on:

- a) The Culture of Health and Safety,
- b) Creating a learning industry and
- c) Ensuring safe and healthier workplaces.

From this summit, the action- plan had clear deliverables and timelines that would help drive the sector to the attainment of zero harm. At the summit in 2011, the principals reaffirmed the commitment to zero harm and strengthened this commitment with the launch of the Culture Transformation Framework and the pledge on the Centre of Excellence. Furthermore

during this summit, the Principals also committed to the issues of HIV/AIDS and Tuberculosis with the launch of 22 initiatives to address these two major health issues that has been plaguing the sector.

The 2014 summit was an opportunity for all stakeholders to reflect, review on mine occupational health and safety in the context of our socio-political economy. The Summit also gave structure to the process of focused attention on a collaborative framework in dealing with the mine health and safety issues facing our nation over the next ten years of our democracy.

Minister Adv. Ramatlhodi delivered a key note address at the opening of the Summit. Other speakers who participated during discussions included

***The Summit gave structure and strengthened focused collaborative efforts in dealing with the mine health and safety issues facing the mining sector over the next ten years***

representatives of the Departments of Labour, Health, Organized Labour, Chairperson of Traditional Leadership, Chamber of Mines, etc.

A model mine Tunnel was built as part of the exhibition and displayed. Delegates had an opportunity to experience the mine tunnel en route to the plenary room. ♦





# 2<sup>ND</sup> AFRICAN MINE SECURITY SUMMIT 2015



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# Zinhle's

# dream

'E ducation is the most powerful weapon which you can use to change the world'; South African icon, Nelson Mandela, once said. Making this her motto, Nondumiso Mathenjwa recently set out to change the world, one student at a time. Nondumiso

wrote to Mining CSI and, although it is not customary for this magazine to publish such requests, we were inspired by Nondumiso's feverish dedication to her cause and made an exception.

Below is her letter:

Dear Mining CSI.

My name is Nondumiso Mathenjwa, mining engineer graduated from University of Johannesburg and One Young World Ambassador. I would like to assist an orphaned ambitious girl Zinhle from the mining town of Middelburg in South Africa to further her studies at University level.

Zinhle doesn't have parents, but she is determined not to let that stand in her way. She believes that one's destiny can be changed, regardless of her background. She wants to be the example others in similar circumstances can follow.

Zinhle's dream is to become a social worker. She wants to stand up for the rights of the vulnerable people in our society. I believe that she has what it takes to make this dream come true.

I joined Zinhle in this dream. We received donations from the most incredible South Africans making it possible for her to register at the North West University for the 2015 academic year. Although she doesn't yet have the finances to complete the year, she did not shy away from the challenge. Passing matric and being able to register has already been a great step. I want to ask my fellow South Africans to help her to finish what she's started.

The fees for accommodation, books and tuition amounts to R60 000 for the first year. This is an astronomical amount for someone like Zinhle, but if everyone receiving this magazine donates one rand, she will have the funds necessary to complete her first two years.

Please join me in fulfilling this dream.

Thank you for your consideration.

Nondumiso



## To donate

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*Below: Executive Mayor Mike Masina handing over community projects*



## 16 Days of Activism

Steve Tshwete Local Municipality in partnership with Anglo American protecting SA's most vulnerable



South Africa celebrated 16 Days of Activism for No Violence towards Women and Children 2014 as part of an ongoing campaign to protect our country's most vulnerable citizens. The Steve Tshwete Local Municipality, in partnership with Anglo American, played their part as Executive Mayor Mike Masina officially handed over four Park Homes to the Non-profit organisation, Victims Support Centre.

"STLM is committed to supporting the 16 Days of Activism by actively contributing towards the support and rehabilitation of victims of violence and abuse. Our Special Programmes Unit identified the need of the Victims Support Centre for more accommodation for the increasing number of abused women and children, and approached Anglo American for a sponsorship for additional bedrooms for the facility."

Masina explained that this year's theme: Count me in – Together moving a non-violent South Africa forward is very apt for the municipality as it plays an active role in community upliftment. It has not only partnered with Anglo American to place more bedroom facilities on the site of the Victims Support Centre, but has allocated nine RDP houses for

former clients of the centre who desperately needed permanent homes.

The municipality's Special Programmes Unit plays an oversight role in supporting the Department of Social Development's programmes for women and children, people affected by HIV & AIDS, persons with disabilities and senior citizens.

The municipality provided a property on a long lease basis to the Victims Support Centre. The property consists of three bedrooms (for three families), a multipurpose room for counselling and meetings, an office, kitchen and bathroom facilities. As building extensions are not permitted, Anglo American was approached to donate the four fully equipped Park Homes for an additional four families including orphans. These homes have already been erected in the grounds of the property.

Masina said the municipality decided to step in and provide RDP houses for nine families that were victims of violence after discovering that they had nowhere to live after leaving the centre, as they were not able to return to their former homes for fear of continued abuse. ♦



**Real Mining. Real People. Real Difference.**



# Steve Tshwete Local Municipality

## International Investment Symposium



*Executive Mayor, Mike Masina, Municipal Manager, Willie Fouché and STLM delegates*

**T**he Steve Tshwete Local Municipality (STLM) hosted the inaugural Steve Tshwete International Investment Symposium on 26 November 2014 at the Hilton Hotel, Sandton. This event was broadcasted live on SAFM.

The main objective of the event was for the municipality to promote investment opportunities and available investment incentives. It also aimed to spark robust discussions on the local municipality and the South African economy.

Topics for discussion were guided by both sectorial trade and investment opportunities available within the municipality as well as challenges that investors faced. It was hoped that these discussions would make it possible for government and relevant stakeholders to bridge the gaps identified. Another focus point was the availability of investment incentives to encourage investors to invest in this vibrant municipality.

During the symposium Executive Mayor, Mike Masina and Municipal Manager, Willie Fouché strongly emphasized the efficiency of their municipality. STLM is a well-functioning municipality which constantly aims

to reduce the same red tape that often discourages investments. The two gentlemen made an undertaking that they were open for business and, should investors encounter dead-ends or red tape, they would assist in any way possible.

The symposium was targeted at businesses from all sectors of the South African economy. Differentiation was made between SMMEs, large businesses, local and international investors, embassies and fellow BRICS countries.

Given the dramatic drop in South Africa's economic growth forecast in 2014, the municipality has taken a bold step to enhance the economic potential of STLM. In the words of Mr. Fouché: "This municipality is waiting for your investment and everyone is welcome". ♦

To know more about the investing at STLM please contact:

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# PUTTING SOUTH AFRICA FIRST



## THE MINING SECTOR PAYS NEARLY DOUBLE ITS GDP SHARE IN CORPORATE TAX

The mining sector is a substantial contributor to the government and society in terms of its tax contribution (direct and indirect).

- In 2012, the mining sector paid R21,4 billion in direct corporate tax<sup>2</sup>. This accounted for 14,1% of total corporate taxes paid in South Africa and is nearly double the sector's share of GDP.
- In terms of the recently introduced mineral royalty system the mining sector paid R5,6 billion in royalties to government for the extraction of the minerals.
- In terms of indirect taxes the sector helped contribute R1,1 billion<sup>3</sup> in terms of the special levy on electricity and approximately R900 million in terms of the one percent national skills development levy.
- Considering that the mining sector paid R93,6 billion in salaries and wages in 2012, the sector is estimated to have collected about R9,5 billion<sup>3</sup> in taxes from employees in terms of personal income tax for government.

If one includes the economic activity in the rest of the economy that is related back to the mining sector, the overall contribution of mining and mining related activities to taxation collected by government is significant.

## MINING CONTRIBUTES SUBSTANTIALLY TO THE PROVINCES

The mining sector is a key driver of the economies of many of South Africa's provinces<sup>7</sup>:

- Using 2010 nominal data, the province with the largest mining sector was the North West Province, which had a mining GDP of R54,4 billion and where mining accounted for 30,7% of that province's GDP.
- The second largest mining province is Limpopo, where mining GDP was R52,2 billion and mining accounted for 27,2% of the provincial GDP.
- The third largest mining province was Mpumalanga with a mining GDP of R44,2 billion and a mining share of 23,6% of GDP.

The key issue here is that mining has helped drive the industrialisation and economic prospects of a number of South Africa's provinces. It has also shaped the growth of certain areas, such as Rustenburg which had a high 2,7% economic growth rate in 2010 mostly as a result of significant growth in the mining sector.

## MINING IS A SUBSTANTIAL CONTRIBUTOR TO INFRASTRUCTURE INVESTMENT IN SOUTH AFRICA

According to Treasury<sup>6</sup> the government plans to spend about R845 billion on capital projects over the next three year period (2012 to 2014). Eskom is due to spend R296 billion in this period, mostly on new power stations and improving network and distribution infrastructure. Transnet is expected to spend R101 billion in the MTEF period. These investments focus on the freight rail network, large capacity upgrades on the iron ore and coal export lines, acquiring modern rolling stock and refurbishing existing infrastructure. The increased capacity will boost general freight and mining exports.

What many people do not realise is that much of the Transnet Rail Freight and Eskom infrastructure upgrades will be paid for by user charge fees paid by the mining companies of the next 10 to 20 years. Ultimately, all the capital and operating costs will have to be recovered from users. Given that mining accounts for 50% of Transnet Rail Freight's business, over half the expected capital cost will be recouped from the mining sector over time. Similarly, with mining and smelting accounting for close to 40% of Eskom's business, the same cost recovery mechanism will play out in the electricity sector. This means that mining companies will in all likelihood pay for about R50 billion in Transnet Rail Freight's capital costs and R100 billion for Eskom's capacity expansions. The contribution of mining to capital investment by the state owned enterprises is a significant but unrecognised contribution by the mining sector to fixed investment and the growth of the country's productive fixed capital stock.



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## MINING, A KEY INVESTOR IN THE SOUTH AFRICAN ECONOMY

Given mining's linkages and induced impacts on many other parts of the economy, it is not surprising that mining is a significant investor in the South African economy.

- On a direct basis mining accounts for 12% of total investment in the economy (public and private), and accounts for 19% of total private sector investment.
- If the indirect multipliers and induced effects are considered, the total contribution of mining to fixed investment is estimated to be about 25% of the total.

So one quarter of all investment in the economy is somehow related to the mining sector.

## MINING IS A KEY MAGNET FOR PROMOTING DOMESTIC SAVINGS AND ATTRACTING FOREIGN CAPITAL

Not only does mining contribute to significant private and public investment in the economy, it also attracts a significant amount of foreign savings from the rest of the world, for investment in South Africa. South Africa is seen very much as a mining investment destination and traditionally mining has accounted for a significant portion of capital flows into the country. These foreign capital flows have helped improve the country's capital inflows, assisting the capital account of the balance of payments. In addition, through pension fund and life assurance contributions, many millions of South African have their retirement and other savings invested in the mining sector. This helps encourage savings and the provision for retirement.

The mining sector continued to be a key component of the Johannesburg Securities Exchange (JSE) and accounted for 24,7% (R1,8 trillion) of the All-share index and 24,4% (R1,9 trillion) of the market capitalization of all equities on the JSE at the end of 2012.

## CREATING AND MAINTAINING A SAFE WORKING ENVIRONMENT

The Chamber of Mines remains committed to a vision of zero harm in which every mineworker returns home unharmed every day. We aim to have a world-class safety performance in the South African mining industry by working closely together with our tripartite partners in government and labour. Through the tripartite Mine Health and Safety Council, the Chamber participates actively in the implementation of the Tripartite Action Plan on Health and Safety that leaders agreed in 2008.

While there is still a long way to go, the industry has achieved a notable improvement in its safety statistics over the last decade.

## THE CONTRIBUTION OF MINING TO SOCIETY IS SUBSTANTIAL

The contribution of mining to society, including community, enterprise and skills development is substantial:

- When reviewing the top ten mining producers in SA8, approximately R2,4 billion was spent on community development in 2012.
- In 2012, approximately R2 billion on Human Resource Development, and a further R330,5 million was granted in scholarships and bursaries for that year. Of the R330,5 million-approximately 5168 bursaries were awarded to non-employees.
- In 2012, the top ten spent some R4,9 billion on learnership programmes and further R1,7 billion in ABET training.
- In 2012, a further R7,4 billion was spent on artisans training and other training initiatives.
- The industry provides a substantial healthcare base and helps provide care to mine employees and their families.
- The industry has made substantial progress in phasing out single sex hostel accommodation, and in conjunction with many municipalities and mining communities has helped provide access to housing and community services.

### Sources:

1. Quantec and IDC
2. Statistics South Africa, Quarterly Financial Statistics, December 2012
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8. Top ten mining companies Community & Sustainable Development Reports, Mining Charter Reports: Anglo American SA, AngloGold Ashanti, African Rainbow Minerals, BHP Billiton, Glencore Xstrata, GoldFields, Harmony Gold, Impala Platinum, Lonmin Platinum and Sasol Mining.

### CHAMBER OF MINES OF SOUTH AFRICA

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# Working towards a BETTER WORLD

for all  
children



**T**he United Nations Children's Fund, UNICEF upholds the Convention on the Rights of the Child and works with governments, corporates, civil society as well as individuals to ensure that children are given the best chance for survival, development and protection globally. Recognising that extractive industry operations may interact with some of the world's most vulnerable children, often with profound and diverse impacts, UNICEF is seeking opportunities to engage the sector on the realisation of children's rights.

One initiative UNICEF has developed is the Children's Rights and Business Principles (Principles) in collaboration with the United Nations Global Compact and Save the Children, building on the Guiding

Principles on Business and Human Rights. Since their release in 2012, the Principles have raised critical awareness of children and youth as vital stakeholders of businesses. UNICEF is working with different sectors including mining to have a better understanding of the application of the principles.

Last year UNICEF worked on a pilot project in the mining sector where initial findings indicated that many mining companies recognize children as 'vulnerable stakeholders'. It also found that institutions had little knowledge on how to define this vulnerability of children who live close to mining areas. Therefore UNICEF looks forward to engaging the mining sector on ways of identifying and addressing the positive and negative impact on children.



## UNICEF and the Corporate Sector

UNICEF strongly believes in the power of corporate engagement and collaborative efforts in order to advance the rights and the development of children.

The organisation works closely with multi-national corporations, national companies and small- to medium-sized businesses to identify, design and implement alliances that leverage the strengths of the corporate sector on behalf of the world's children. In turn, UNICEF supports companies that aim to strengthen their commitment towards a positive contribution to the world's communities, environment and provide support to achieve their corporate social responsibilities, commitments to children and business objectives.

After all, the corporate sector thrives on what successful development work brings – access to a healthy educated workforce and consumers, as well as societal stability and peace.

## UNICEF in South Africa

Since the dawn of democracy in South Africa in 1994, UNICEF has had a presence in the country, with offices in both Pretoria and Johannesburg.<sup>1</sup>

UNICEF supports the Government of South Africa in creating sustainable change for children with special focus on early childhood development, ending violence against children and promoting adolescent development through four programmes: (1) Quality Education and Adolescent Development; (2) Health and Nutrition; (3) Child Protection; and (4) Social Policy and Advocacy.

## About UNICEF Globally

UNICEF is present in over 190 countries, as the world's leading advocate for children. With headquarters in New York and offices in most countries in every region, UNICEF staff are actively involved in promoting children's rights. UNICEF develops and manages child-sensitive and child-driven programmes from birth to early childhood through to adolescence.

The organisation is funded entirely by the voluntary contributions of individuals, businesses, foundations and governments. ♦



For more information on the Children's Rights & Business Principles, please visit: [www.unicef.org/csr](http://www.unicef.org/csr).

To find out about the work of UNICEF South Africa, please visit: [www.unicef.org/southafrica](http://www.unicef.org/southafrica)

For further information, please contact Verushen Appalsamy at: [vappalsamy@unicef.org](mailto:vappalsamy@unicef.org)

<sup>1</sup> The UNICEF South Africa office falls within the Eastern & Southern Africa region which comprises a total of 21 countries. The countries which are within this region are: Angola, Botswana, Burundi, Comoros, Eritrea, Ethiopia, Kenya, Lesotho, Madagascar, Malawi, Mozambique, Namibia, Rwanda, , Somalia, South Africa, South Sudan (Republic of), Swaziland, Tanzania (United Republic of), Uganda, Zambia and Zimbabwe.



## Background of Newcastle Training Centre

# Filling the skills gap

**Q**uality education has become a valuable commodity. More South Africans are studying today than ever before. The costs involved in obtaining skills and qualifications, however, also skyrocketed. Newcastle Training Centre (NTC) is playing its part in addressing this problem by offering affordable, quality training.

NTC is a nationally recognized industry training centre and decentralized trade test centre that provides institutional skills training in all the major engineering trade disciplines. It is also an accredited trade assessment centre for most engineering and civil trades.

Since its inception NTC has always been on the forefront of the South African training and development landscape. With more than thirty years of pioneering experience in Artisan training and over ten years trade testing experience, NTC continues to produce artisans that are sought after, throughout Southern Africa, for the quality of their workmanship, knowledge and attitude. It also provides learnerships in refractory masonry, which is very rare in South Africa.

The range of training equipment available to the learners is very comprehensive – they are afforded ample opportunity to practice and perfect the relevant

tasks, either on actual machinery and equipment or in a controlled, simulated facility. The equipment list ranges from used gearboxes, starters, guillotines, drill presses to the most modern, PLC driven devices and automation projects.

The training environment is optimized in that the embedded knowledge of the learner is expanded to include a new set of outcomes, including the critical cross-field outcomes that can only be developed in an environment that provides comprehensive and relevant training that is put into perspective and contextualized by experienced subject matter experts. ♦

### About Newcastle Training Centre

#### **Vision :**

Newcastle Training Centre will expand the skills base of South Africa by providing relevant technical skills of the highest quality to all who meet the minimum entry requirements, at the lowest possible price.

#### **Mission:**

Newcastle Training Centre will work together with all stakeholders and partners to develop artisans and technical professionals and to equip them with the knowledge, skills and attitudes to give them the utility value that will be evident in their productivity and efficiency.



# Newcastle Training Centre (NTC)

## National Industry Training Centre & Decentralised Trade Test Centre

Cnr. Allen & HJ van Eck Street  
Barry Herzog Park, Newcastle  
Tel: 034 318 2021  
Fax: 034 318 1574  
[www.majuba.edu.za](http://www.majuba.edu.za)

### We offer Accredited Apprenticeships & Learnerships for the following trades:

- Boilermaker
- Electrician
- Millwright
- Welder
- Fitter
- Turner
- Fitter & Turner
- Rigger
- Refractory Masonry
- Building & Construction Trades
- Instrument Mechanician

### And Practical Training in:

- Learner Technician Instrumentation
- Learner Technician Electrical
- Learner Technician Mechanical

Newcastle Training Centre is also an Accredited Decentralised Trade Test Centre for all of the trades listed to the left. In addition, the following courses and activities are offered to enable learners to successfully complete their Trade Tests:

- Trade Test Preparation
- Pre-Trade Test Assessments
- RPL Assessments

  
**Majuba College**  
**for further education and training**  
*reaching greater heights together*

Newcastle Training Centre is accredited by the following SETA's:







*Engineering graduates from Majuba TVET College have been making good progress at Sibanye Gold mine in Johannesburg.*

Majuba TVET College successfully placed some of their

# Engineering Graduates

at Sibanye Gold mine in Johannesburg

**M**ajuba TVET College recently placed 10 of their Engineering Graduates into an Apprenticeship opportunity with Sibanye Gold mine in Johannesburg. The excelling engineering graduates who completed their National Certificate Vocational (NCV) NQF Level 4 qualification at the College are relishing at the opportunity and making good progress at the gold mine.

Sibanye Gold mine is known to be the largest individual producer of gold from South Africa and is one of the world's 10 largest gold producers. Sibanye Gold is listed on the JSE Limited in South Africa (primary listing) and the NYSE.

The graduates from Majuba TVET College were successfully placed at the mine after Interviews and Aptitude testing had taken place with Sibanye Gold Mine.

The graduates are currently being trained at one of Sibanye Gold mine's Training Centres accredited by MQA in the following trades: Boilermaking; Fitting and Turning; and Electrical. They will serve their practical experience at the mine before meeting the requirements of Trade Test and finally qualifying as Artisans.

The Acting Head of Unit for Student Work-Placement

at Majuba TVET College, Mr. D.S Mohan stated that, "This opportunity for our graduates has come at an appropriate time with the Deputy Minister of Higher Education and Training declaring 2014 to 2024 as the Decade of the Artisan. Our graduates are not only academically qualified but disciplined, have the right attitude and strong work ethics so I urge companies to engage with our College for Apprenticeship opportunities going forward."

Mr. David Nagar, Supervisor Head Consultant and Coach for the students at Sibanye Gold mine, further added that, "These NCV students from Majuba TVET College are of a high calibre. Their practical knowledge in both the mechanical and electrical disciplines combined with their hardworking ethic demonstrates an assertive attribute in their work."

The Council and Senior Management of the College would like to extend their gratitude to Sibanye Gold Mine and the MQA for embarking in this significant partnership. Majuba TVET College welcomes all mining companies to contact the Student Work-Placement Unit on (034) 326 4888 should they require graduates to be placed at their mine. ♦





Sipho Nyembe (Mechanical Engineering student from Newcastle Technology Centre Campus) was recently placed in the Mechanical workshop at the Department of Transport.

# MAJUBA TVET COLLEGE

## INVITES ALL COMPANIES FROM THE MINING SECTOR TO HOST THEIR GRADUATES IN INTERSHIP PROGRAMMES

Majuba TVET College hereby invites Companies that are both in the Mining and other Sectors that are prepared to host our National Diploma (N6) Graduates and our NCV Level 4 Graduates for a period of 12 to 18 months in the following fields:

- Mechanical Engineering (Boilermaking, Welding, Fitting and Turning)
- Electrical Engineering
- Civil Engineering
- Chemical Engineering
- Business Management

- Financial Management
- Human Resource Management
- Farming Management
- Hospitality

The learner allowance/stipend will be paid by the College for the duration of the Internship.

If your company is interested, kindly contact  
**Mr. Deepak Mohan on: (034) 326 4888 or 060 537 5443 or Email: dmc200845@yahoo.co.za.**



Nhlanhla Kubheka and Meli Makhaza (Engineering students from Majuba Technology Centre Campus) was recently placed in the Engineering workshops at Exclusive Structural Engineering and Projects.

  
**Majuba College**  
**for further education and training**  
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Where the World Connects  
with African Mining™

## *Leading African and global mining executives and investors*

announced for the 2015 Investing in African Mining Indaba™

The annual Investing in African Mining Indaba is the world's preferred brand and destination in African mining

**C**APE TOWN, The 2015 Investing in African Mining Indaba taking place on 9 – 12 February 2015 in Cape Town South Africa will feature an array of globally recognised economic visionaries, mining thought leaders and some of Africa's largest deal-makers for the approximately 7000 delegates set to arrive from more than 110 countries.

### **DISTINGUISHED KEYNOTE PRESENTATION FROM MR. TONY BLAIR, Former Prime Minister of the United Kingdom**

The Mining Indaba unites investors and dealmakers from around the world with attractive mining opportunities throughout all of Africa. The conference places emphasis on the myriad investment opportunities in the sector from majors to juniors; brownfields to exploration. As the world's preferred platform for deal-making in African mining, delegates should expect to hear: a global perspective on the investment climate, status of current and emerging mining projects across Africa, and insights on the

current mining scenarios in Africa's most attractive mining jurisdictions.

"The 2015 Mining Indaba features a number of substantial investments we have made under our new ownership. These investments, made at a time when other events and the overall sector are contracting, reaffirms our belief that the long term outlook for Africa mining is excellent and our commitment for the Mining Indaba to remain the premier forum for uniting investors, mining companies and mining ministers," explains Jonathan Moore, Managing Director, Mining Indaba.

Beyond our world-class headliners, delegates will hear corporate presentations from: C-level executives representing approximately 40 of Africa's top and emerging mining players, 20 of the continent's most progressive mining ministers, and industry thought leaders driving African mining into the next phase.

The annual Investing in African Mining Indaba is

the world's preferred brand and destination in African mining. This has been achieved by pursuing a clear strategic vision and maintaining a disciplined, long-term commitment to our mission. Mining Indaba remains better positioned than ever to deliver an unparalleled deal-making and discovery platform for global investors and African mining companies. This diverse and proven platform gives investors and deal-makers exceptional access to compelling investments across the entire continent. For more information on how to register visit <http://www.miningindaba.com>. ♦

Distributed by APO (African Press Organization) on behalf of Mining Indaba™.

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 e: [maria.palombini@miningindaba.com](mailto:maria.palombini@miningindaba.com)



#### About the Mining Indaba™

Investing in African Mining Indaba™ (<http://www.miningindaba.com>), often referred to as "the Mining Indaba™," is an annual professional conference dedicated to the capitalisation and development of mining interests in Africa. It is currently the world's largest mining investment conference and Africa's largest mining event. For two decades, the annual Mining Indaba has served as the pathway for foreign investments into Africa's mining value chain - opportunities ranging from small diamond deposits to mega coal projects. The Mining Indaba™ is now part of Euromoney Institutional Investor PLC.

Join the Mining Indaba global community:

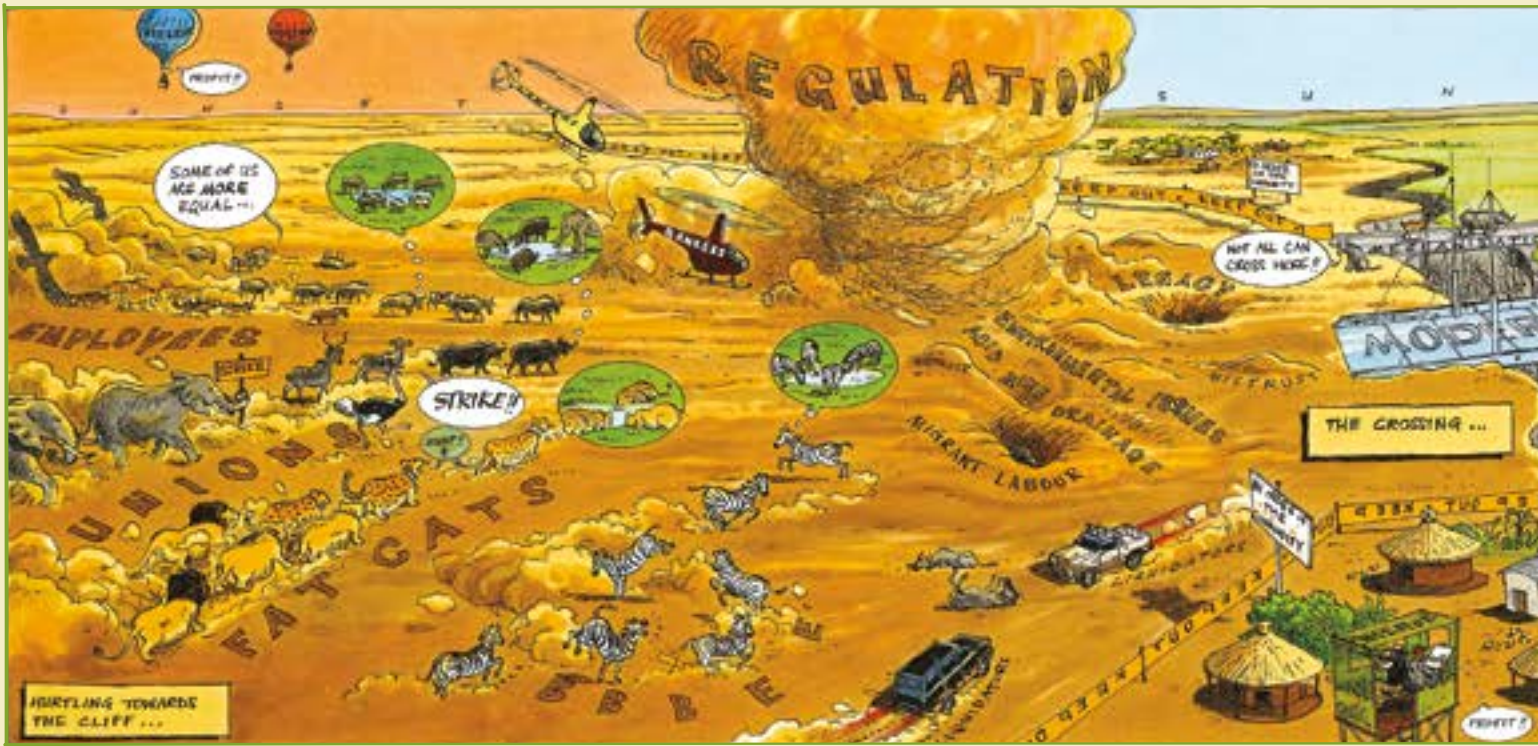
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## MIGRATING TO THE FUTURE

## Dear Industry

We've come a long way together. Been through some good and tough times. I think about you a lot and lately the same picture keeps coming to mind. I see you (actually us) as a huge bunch of herd animals migrating, maybe even storming across the African plains. We're not a united bunch. There are very distinctive herds: the employees, the unions, the inevitable fat cats, the BEEs (causing confusion and kicking up dust rather than really moving forward) – each dreaming of a future that's theirs alone. Indeed we are all equal....But some of us are just a bit MORE equal...

Scorched earth in our wake, treacherous terrain ahead, the huge cloud of regulatory uncertainty obfuscating almost everything (a bit like a Free State dust storm) - we are hurtling toward the cliff, egged on by the bankers and lawyers buzzing overhead. (Someone needs to pay for those Sandton highrises after all!).

Investors float above this sorry scenario, sharpshooting specific prey, but untroubled: they don't have to land in this mess – they have other options, other destinations, after all.

Communities are clear – they don't want us anywhere near (despite many of them owing their very existence to us) - which really just gives us less and less to work with. We pray for rain (in the form of commodity price boom, or currency weakness) but there's no sign of that.

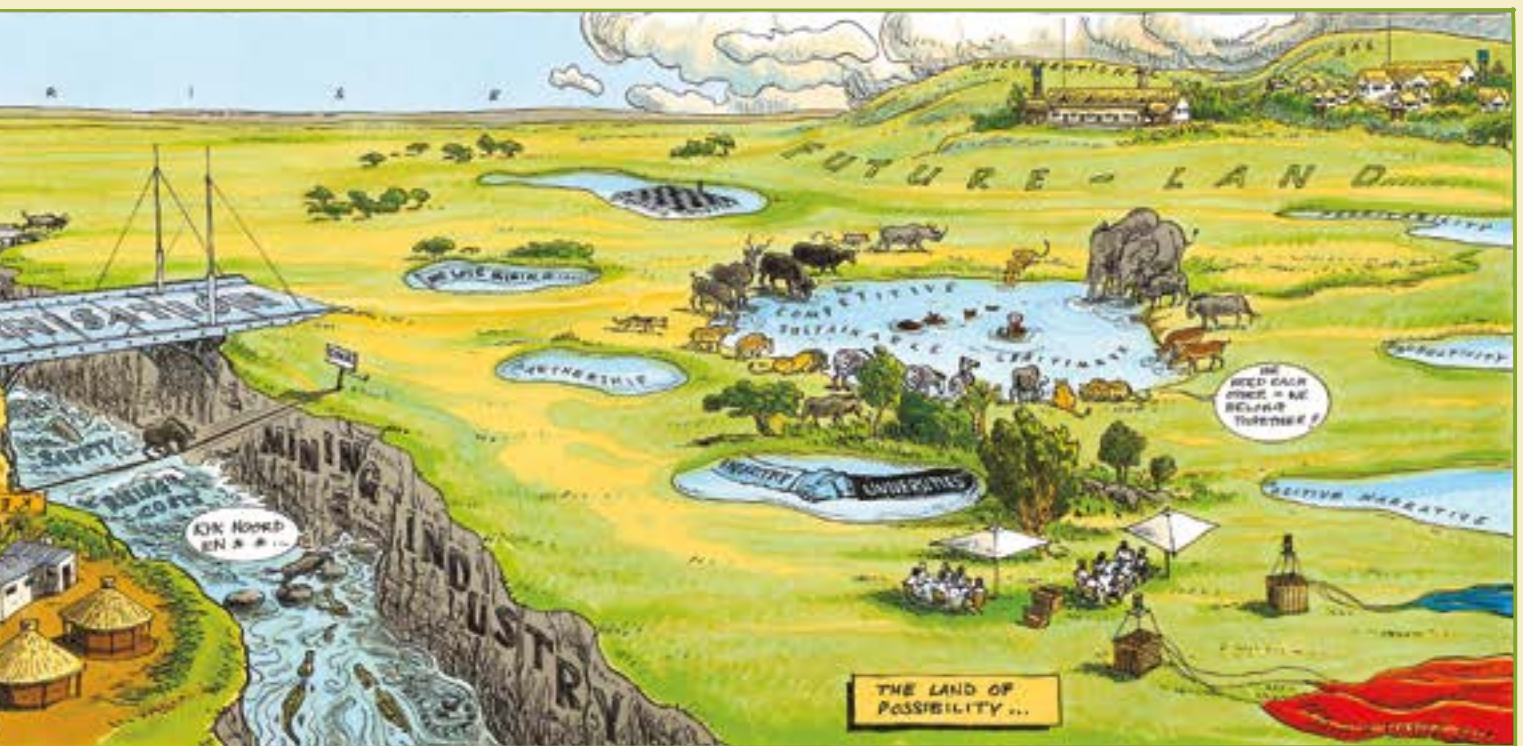
Some of us have reached the “cliff”, and are attempting to cross over into “future-land”. Mechanisation is an option but not all can cross here. Some are attempting to walk the tightrope of DMR compliance, believing that it alone is the route to a better future. Others are just taking every step as it comes, as we do in mining - the “kyk noord” approach. All the while the river below roils with threats to our very existence: rising costs, safety issues, potential disinvestment.

Is there really a better future for us? What could it look like? Most importantly what would we have to do, what “bridge” would we need to construct to cross into it?

These were the questions that defined our conversations at the 2014 Joburg Indaba. Rather than kicking up the same old dust – we tried to paint the picture of a future we could create and would be happy to be part of.

This is what emerged: we (**ALL** stakeholders) need to realize that whether we like each other or not – we **NEED** each other. For even one of us to drink at the legitimate, competitive, sustainable industry waterhole of the future, **ALL** of us have to be

# CHAIRMAN'S SUMMARY



there. Realising that we need each other and belong together should frame the trade offs and compromises that are inevitable. This is partnership.

Without it we die. And so do the other 3 P's (productivity, profitability, positive narrative) that emerged from our conversations as critical in defining our future. These are not new words – but they do take on new dimensions given a different context.

This new context is **MODERNISATION**. I truly believe it is the bridge to our future. It became abundantly clear during the course of the 2 days that if we always do what we've always done we'll always get what we've always got. This includes everything from shift arrangements to processes – but most specifically how we engage with and relate to our employees. Productivity takes on a fresh slant when you approach the employee as a human being rather than a production unit. Profitability too loses its one dimensional "I get rich at your expense" connotation. Positive narrative doesn't mean empty "spin". To change the narrative of a 100 + year old industry, in a way that unleashes potential and inspires hope requires that we actually have to change us!

**MODERNISATION** doesn't replace or exclude mechanisation: in my mind it's the more over-arching concept. Appropriate mechanisation of ore bodies that would otherwise have been sterilised as unprofitable demonstrates how highly skilled jobs can be created if we let go of the past. **MODERNISE**. Change our perspective. Think, and do, differently.

Industry, as you may know, I opened the 2nd Joburg Indaba quoting well known author Nancy Kline's mother's words to her, shortly before she died. I would like to re-iterate this and direct it to the next generation, impatiently waiting for the opportunity to step up and do it differently:

*"I apologize for the mess my generation has imposed upon yours. I wish I could have left you a better legacy. I just hope I have left you a measure of courage to face what we have done, and a measure of hope to do something about it."*

If our Future Generation panel is any indication, you are indeed in safe hands!

Until next time

*Bernard Swanepoel*



# The new paradigm for the mining industry

Written by Prof. Gunter Pauli, author of *Blue Economy* in Association with South African Reserve Bank and MISTRA



The Chinese invented paper about 2000 years ago. Today, the Chinese reinvented paper. Whereas paper was made for centuries with 1% fibre's floating in 99% water slowly drying out to create this thin film, the new business model proposes crushed stones (80%) blended with polymers (20%) as a binding agent to make a new type of paper. The world market for paper is up for a total

reconversion if we believe the experts in the field: crushed stones are expensive if you have to start from a rock. However, if you turn the tailings from mining operations into stone paper then one creates a strategic new industry for South Africa.

The world consumption of paper is expected to rise to 500 million tons per annum by 2020. South Africa has shifted from a major paper producer on the Continent to a large paper importer. The introduction of stone paper will change the rules of the game since it is not the cheap access to pulp (fast growing trees and vast expanses of land) plus abundant availability of water that determines the competitiveness of paper making. This is the model of the past. The new model will see water scarce and tree poor nations position themselves as leading paper makers converting tailing dams and recycled polymers into an industry that not



only offers more paper at a lower cost, it converts the errors (or should we say the ignorance) of the past into opportunities for the future. And what an opportunity it is for South Africa!

The opportunity is not just the single production of paper. Stone paper can be recycled quasi indefinitely, thus institutionalizing a high material efficiency. Indeed, since stone paper is made from mineral sources, it cannot be destroyed, only reconditioned.

However, the opportunity is more than a chance to substitute fibres and water with stones, it is an opportunity to generate more cash flow, and to strengthen the balance sheet by converting provisions to assets. Indeed, tailing dams represent an important

investment cost and an operational expense, for which provisions are made so that at the time of the closing of a mine a rehabilitation of the site can be implemented.

More important yet: all tailings still contain small amounts of gold which could not be extracted since the cost of pulverizing ore even finer would be too high. However if now the stones are turned into 3 to 5 micron ( $\mu$ ) size particles then all gold can be extracted while generating the ideal size of mineral material for paper. Apart from the left-over gold, one could also recover uranium (from mines and tailings around Johannesburg) or chrome (as is the case in Limpopo).

The specifications required to produce stone paper permit to generate extra income from gold and other valuable particles as part of the core business of mining. And at the same time this process creates

***The world market for paper is up for a total reconversion if we believe the experts in the field: crushed stones are expensive if you have to start from a rock. However, if you turn the tailings from mining operations into stone paper then one creates a strategic new industry for South Africa.***



an additional value that can be as much as \$300 per ton by supplying an input for stone paper. This means that a gold mine can dramatically increase revenues, reduce investment and operation costs, and (finally) create the thousands of jobs. This is unheard of in the sector.

While the world market for paper will never shift completely to stone paper since there will remain a strong demand for water absorbing paper (like tissue paper), the potential is estimated at the capacity to convert up to 100 million tons of tailings into paper, good for 20% of the world market. Since Africa will evolve to a Continent with 2 billion inhabitants, its growth rates for paper

demand is one of the strongest in the world. Would African policy makers and business leaders continue with the old model that reserves millions of hectares for monocultures of trees, and divert billions of tons of water away from agriculture and home use? Or will there be the leadership to consider the millions of tons of legacy of the past and turn this into an engine for growth, generating multiple benefits including jobs and profits like we have seldom seen in recent history?

South Africa could become the African supplier of paper thanks to its mining yesterday, today and tomorrow provided a consortium of policy makers, entrepreneurs, financiers and development experts combine their interest and commitment to turn a dark page of mining and create a future that the industry deserves. I think this is not only an opportunity, it is a responsibility. ♦



# 2<sup>nd</sup> Annual Corporate Social Investment (CSI) FORUM

**Driving core strategic implementation towards a sustainable future**

**18<sup>th</sup> – 19<sup>th</sup> March 2015**  
**Protea Hotel Balalaika, Sandton**

## WHO SHOULD ATTEND?

The target audience of this forum is but not limited to:

- CSI Managers, Foundation or Trust managers & personnel
- CSR Managers & Administrators
- NGO management, staff and fundraisers
- Corporate/Public Affairs managers, consultants & personnel
- Transformation and Sustainability Managers
- Sponsorship Managers
- Government officials (CSI; CSR)
- Members of community-based organisations (CBOs)
- Development practitioners, consultants, researchers
- Philanthropists and co-ordinators of private Trusts
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- Local Economic Development Managers
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- Continuous Improvement Managers
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## BENEFITS OF ATTENDING

Participants of this forum will gain broad insights into:

- ❖ Partnership and investment opportunities with public, private establishments and NGOs
- ❖ First hand information from industry experts with extensive background experience with real life case studies
- ❖ How CSI can support organisational effectiveness
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# what is your **ultimate** responsibility?



## ECONOMIC

- Profitability
- Meet demands of capital
- Contribute to the GDP
- Create job opportunities
- Support SMME's

## ETHICAL

- Uphold ethical and moral duties
- Maintain just and fair practices
- Prevent harm, hurt and prejudice
- Diligently promote good governance
- Provide fair and equitable platforms

## LEGISLATIVE

- Adhere to and respect the law
- Observe and play by the rules
- Promote strict adherence to legal norms
- Engage in improving fairness and justice
- Educate and impart skills on legal duties

## PHILANTHROPIC

- Give back to the community
- Willingly improve quality of lives
- Ethically uphold basic moral values
- Engage in charity work and duties

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