









South African Colliery Engineers Association

STRATEGY WORKSHOP

9 - 11 February 2019

President's welcome



- President: Themes for the year
 - Safety remains the key purpose
 - Technology remains the DNA of SACEA
 - Digitisation becoming the new
 - Gap between operations and engineers
 - DMR engagement
- Industry in general positive after SONA 2019 address
- Corruption remains a big challenge to country and industry
- DMR remains a critical catalyst in our business
 - Relationship
 - Practicality of policy
 - Influence from SACEA vital
- Young engineers needs our guidance and mentoring

SACEA Council 2019





2019 COUNCIL

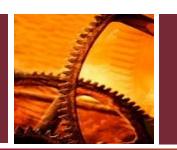


COUNCIL: Mr M Hyra (President); Mrs A Prinsloo (1st Vice President); Mr A Bezuidenhout; Mr PE Mojalefa Mr LD Botha; Mr M Buthelezi; Mr J Coetzee; Mr D Christie; Mr J Diedericks; Mr L Delport; Mr H Lombard (2nd Vice President); Mr F Moleleki; Mrs B Mtshengu; Mr JW Nel; Mr J Nkosi; Mr J Subermoney; Mr LD Turvey; Mr SWJ Van Wyk; Mr H Zwart: Mrs T Sunker; Mrs F du Preez



External Environment

Review











Macro Economic Trends

IMF - 2018



- The fund raised its forecast for world expansion to 3.9% this year and next, up 0.2 percentage points both years from its projection in October. That would be the fastest rate since 2011, when the world was bouncing back from the financial crisis
- The IMF says the global recovery now under way is the broadest in seven years, with growth picking up last year in 120 countries accounting for three-quarters of world output.
- The fund lifted its outlook for the euro zone to 2.2% growth in 2018, up 0.3 point from October. Japan will grow 1.2% in 2018, up 0.5 point, the IMF said
- China will expand at a 6.6% pace this year, up 0.1 point from October, according to the IMF. The fund left its 2018 forecast for India unchanged from three months ago, at 7.4%. As the UK works through Brexit, its growth was forecast at 1.5% in 2018 and again in 2019



The end-2017 View

Economic growth

(% unless otherwise indicated)

	2017	2018	2019
US GDP	2.2	2.3	2.4
OECD GDP	2.3	2.1	2.1
World GDP	3.0	2.9	2.9
World trade	4.6	4.3	4.0

Source: The Economist Intelligence Unit

The end-2018 View

Macro Economic Trends IMF and SARB - 2019



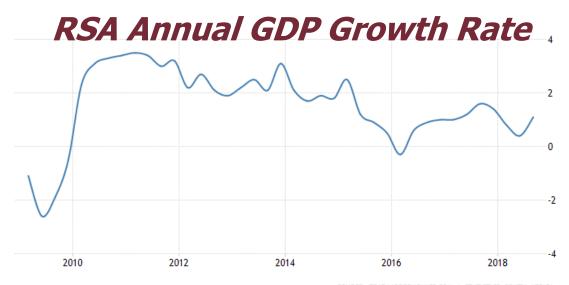
- The International Monetary Fund (IMF) forecast South Africa's economy to grow 1.4 percent in 2019 from 0.8 percent previously, as the lender painted a bleak picture of global growth.
- The IMF further expected South Africa's economy to grow by 1.7 percent in 2020. The Washington-based lender said the outlook for emerging markets and developing economies reflected the continued headwinds from weaker capital flows following higher US policy rates and exchange rate depreciations. "After two years of solid expansion, the world economy is growing more slowly than expected and risks are rising," said IMF managing director Christine Lagarde on the eve of the World Economic Forum in Davos, Switzerland.
- IMF put global growth at 3.5 percent for 2019 and 3.6 percent in 2020, 0.2 and 0.1 percentage points below October 2018's projections.
- The SA Reserve Bank (SARB) in January 2019 said the domestic growth outlook remained sluggish. The SARB now estimates growth in 2018 to have averaged 0.7 percent up from 0.6 percent in November 2018. The SARB growth forecast for 2019 is 1.7 percent, down from 1.9 percent; it is unchanged at 2 percent for 2020 and increases to 2.2 percent in 2021

RSA Core Inflation rate





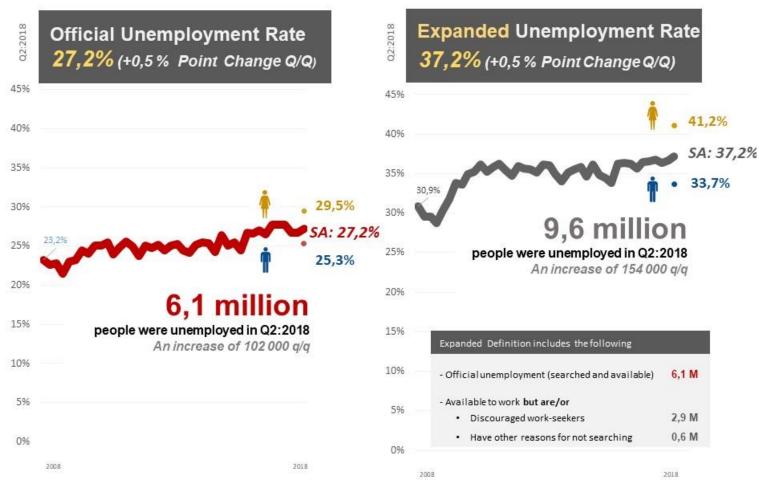
SOURCE: TRADINGECONOMICS.COM | STATISTICS SOUTH AFRICA



SOURCE: TRADINGECONOMICS.COM | STATISTICS SOUTH AFRICA

RSA Unemployment







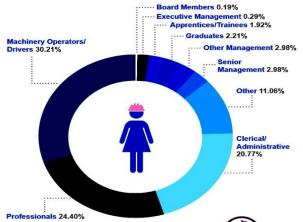
QLFS Q2:2018

THE SOUTH AFRICA I KNOW, THE HOME I UNDERSTAND

what the stats say:

Women in mining







provide personal protective equipment and clothing suitable for





of women in the mining industry have been employed in their current role for 1-5 years



of companies surveyed

leave in addition to the

offer paid parental

government schemes

done to encourage women to consider a career in the mining industry



other women to work in the mining industry

offer flexible working

arrangements such as part-time work,

flexible hours and

home-based work.





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By @VickySidler



Women in Mining- Extracts from Mineral Council Workgroup

Challenges

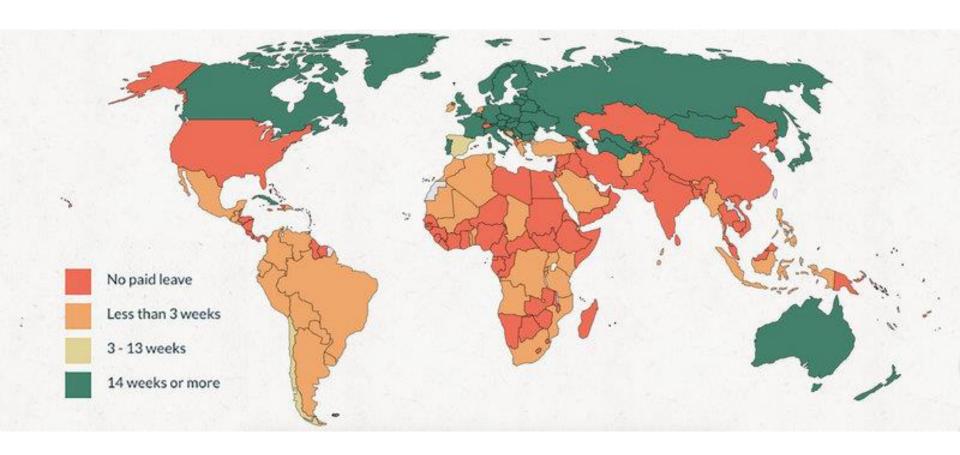
- Safety
 - Nightshift
 - Travelling
 - Sexual Harassment & Assault
 - Ablution Facilities
- Physical Limitations
 - Strength, Weight lifting & Stamina
- Equipment
 - PPF

Working Solutions

- Safety
 - Illumination & Work areas & Ablution **Facility** implementation
 - Security @ Night
 - **Awareness**
 - "Work Buddies
- Equipment
 - PPE Workgroup

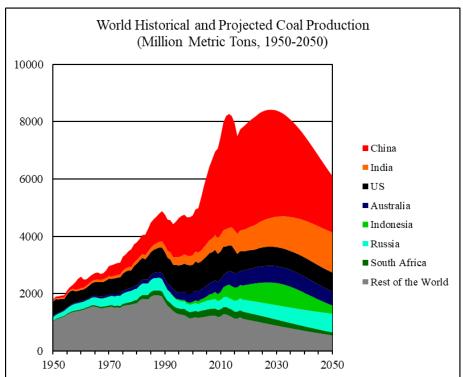
Paternity leave around the world





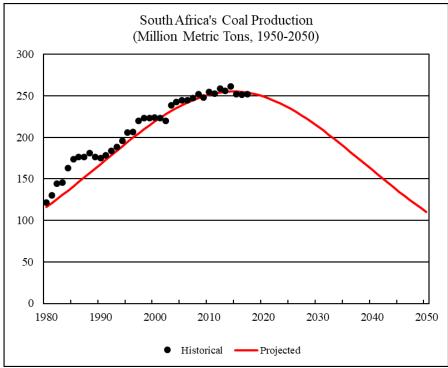
- In 2018 South Africa increased to 10 working days of paternity leave
- Australia is on 3 months of paternity leave

Global Coal Mining





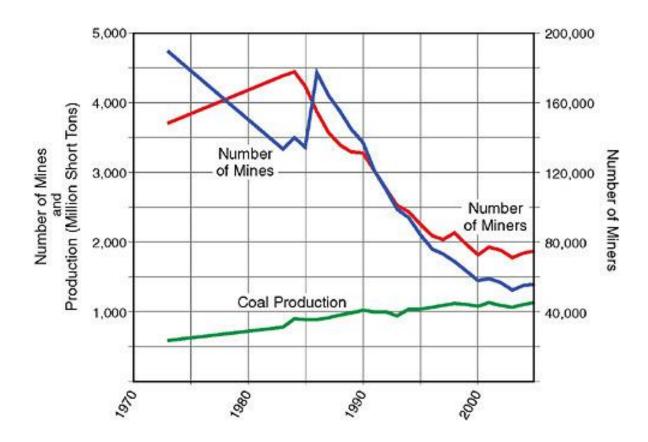
RSA Coal Mining



Coal Mining Trends in the USA



Number of coal mines, production tonnage, and miner employment in the U.S. coal industry.



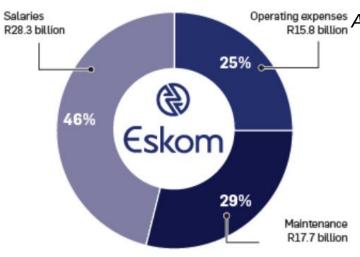
RSA – Eskom and Coal



This is how much Eskom needs to survive



Projected operating costs for 2018/19 year:

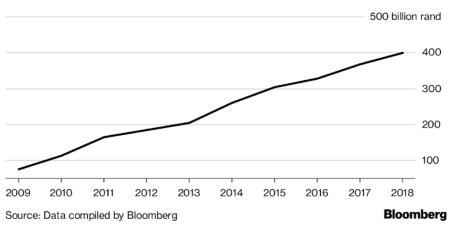


Source: Treasury, Mail & Guardian, department of public enterprises, Eskom

Fixing Eskom is arguably President Cyril Ramaphosa's biggest challenge as he attempts to modernize South Operating expenses Africa, boost growth, provide jobs and overcome poverty

Debt Is Climbing

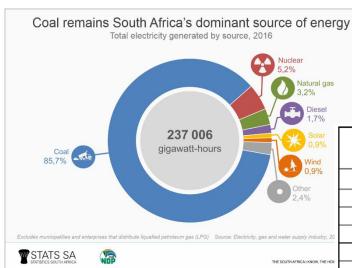
Total nears \$30 billion



Gra

South Africa – Electricity Landscape





	Coal	Nuclear	Hydro	Storage (Pumped Storage)	PV	Wind	CSP	Gas / Diesel	Other (CoGen, Biomass, Landfill)	Embedded Generation
2018	39 126	1 860	2 196	2 912	1 474	1 980	300	3 830	499	Unknown
2019	2 155					244	300			200
2020	1 433				114	300				200
2021	1 433				300	818				200
2022	711				400					200
2023	500									200
2024	500									200
2025					670	200				200
2026					1 000	1 500		2 250		200
2027					1 000	1 600		1 200		200
2028					1 000	1 600		1 800		200
2029					1 000	1 600		2 850		200
2030			2 500		1 000	1 600				200
TOTAL INSTALLED	33 847	1 860	4 696	2 912	7 958	11 442	600	11 930	499	2600
Installed Capacity Mix (%)	44.6	2.5	6.2	3.8	10.5	15.1	0.9	15.7	0.7	
Installed Conneity										

Installed Capacity

Committed / Already Contracted Capacity

New Additional Capacity (IRP Update)

Embedded Generation Capacity (Generation for own use allocation)

Carbon Tax implementation in RSA - 24 Nov'18

In its bid to tackle climate change, the South African government has thrown most of its weight behind setting a price on carbon emissions. The tabling of the Carbon Tax Bill in late November 2018 was the culmination of a fight that has lasted almost a decade.







Secondly, as of December 31, 2022, the carbon tax - currently at R120 per tonne - will increase at a rate of inflation +2%.

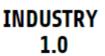
Safety – South Africa 2018



- 2017 90 fatalities of which seventeen occurred in coal mining
- 2018 81 fatalities of which nine occurred in coal mining
- Three major events resulted in eighteen fatalities (Kloof heat exhaustion, Driefontein seismic event and Phalaborwa conveyor fire)
- So far in 2019 1 x fatality recorded in coal mining
- Major concern Gloria disaster / copper thieves

Industry 4.0











INDUSTRY 3.0

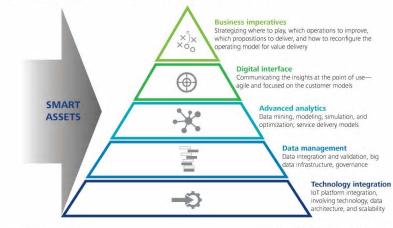


INDUSTRY 4.0

18th Century	19th Century	Mid Zoth Century	Touay
Steam power	Electricity	ICTs Electronics	Advanced robotics 3D printing Internet of Things Artificial Intelligence Big data
Mechanical production, moving away from	Mass production and assembly line	Automated and networked production	Intelligent, flexible and distributed

SACEA PROFESSIONAL DYNAMIC VALUE ADDING

Figure 2. Solutions layer architecture and its key dimensions for Industry 4.0



Sources: Deloitte Services, LP Graphic: Deloitte University Press | DUPress.com

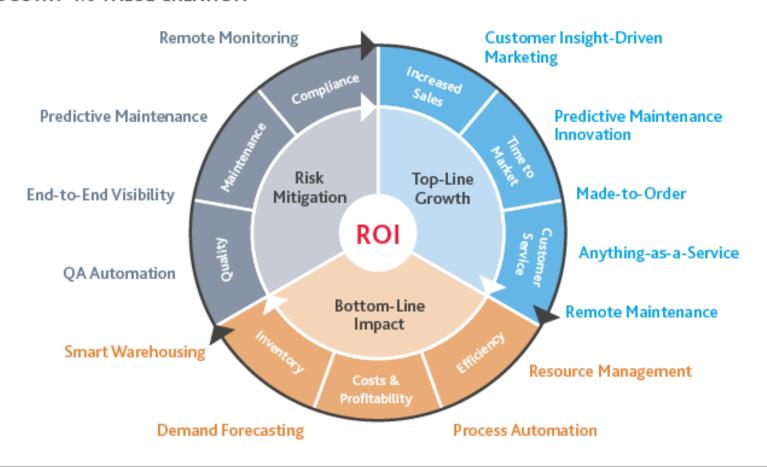




Industry 4.0



INDUSTRY 4.0 VALUE CREATION



Industry 4.0



The Smart Mine EVOLUTION

Insights from our experience can

enhance future mine planning.

CSC provides a wide range of technology and business solutions. to natural resources companies like BHP Billiton, Rio Tinto, Woodside Petroleum, Chevron and Inpex. Our services include mine IT planning and execution, logistics, equipment tracking, information and technical data management, and remote

To help these and other miners meet their business and financial goals, we combine industry-specific knowledge with technical insight and process expertise. We have a deep understanding of capital projects, geosciences data management, mine operations planning, plant operations, orebody modelling, fleet management, and stockpile control and accounting. We combine this industry knowledge with expertise in aligning IT priorities to business goals; implementing and optimising IT architectures and value chain optimisation, including supply chain management.

CSC is a Fortune 500 company recognised by over consistent, efficient and high-quality services and 150 analysts for the provision of enterprise solutions. outsourcing, application development, enterprise architecture services, complex systems integration, performance engineering, program and change management. These credentials are supported by ITIL and ISO accreditations and CSC's global Catalyst methodology which provides a common framework, language, and processes to deliver csc.com/natural_resources

By partnering with CSC, you get access to our 98,000 staff operating in over 40 locations throughout the world and a rich heritage of supporting natural resources clients and their global operations. Contact us today at

FUTURE INSIGHTS

1 REMOTE OPERATIONS CENTRE (ROC) Our experience in command and control centres provides a competency to architect a 'network centric mine'. This approach supports the co-location of expertise to make better operational decisions through enhanced visibility and optimisation of people, equipment and assets.

2 FUTURE WORKER

Our extensive research into smarter PPE has resulted in 'smart-glasses' and hands-free voice and video. Field-workers are linked to remote experts allowing visual work instructions to be displayed in real time. This will improve time-on-tools and lower head count on site

3 AUTOMATION

We deliver advanced automation solutions to industries such as defence, aviation and aerospace. Technologies such as Industrial Wireless, systems integration, fleet management, and Geospatial Information Systems can be used to support the complex automation of components throughout a mine site.

CAPITAL PROJECTS

4 MINING REFERENCE MODEL

Robust architectures and processes developed over 15 years combine the shared knowledge of our mining industry experts, who've designed and built fully integrated solutions in operations around the world. This helps us deliver capitalprojects quickly and brings discipline, ensuring all functional requirements are delivered and can support a standardised approach across multiple mines

5 PROVEN EXPERTISE

Our consultants have a wealth of experience working on major projects, in many geographies, with clients around the world. They provide engineering discipline to the delivery of ICT projects in a mining environment. Their operational expertise adds insight to mine planning with an eye on business process redesign and the entire mining value chain.

6 OPERATIONAL SUSTAINABILITY

Our engineering approach combined with our experience delivers sustainable system design that can evolve with the changing operational requirements over the life of the mine

SOLUTION MODELS

Why choose CSC? We deliver flexibility, scale and in-depth knowledge of your industry.



BROKERAGE Balanced and objective advisory services from industry experts



TURN-KEY Highly efficient, industry-specific, standardised platforms that provide high value



in a hostile environment

FIXED PRICE Confidence in our ability to deliver on-time and on-budget



AS-A-SERVICE A mechanism for providing cost predictability and control



RISK AND REWARD Innovative solutions that will deliver value to your bottom line



Combining industry-specific knowledge with technical insight and process expertise

CSC Proprietary

WORKFORCE MANAGEMENT Our culture of safety

Our integrated solution is demonstrated by our streamlines travel, site access accreditations in occupational and contractor management health and safety. In mining, our resulting in reduced compliance Licence to Support certification enforces the safety of our field risk and increased efficiency service and onsite personnel

COMMUNICATIONS **ENABLING A SMART** As systems integrators. we provide telephony, VALUE CHAIN wireless data and two-way radio communications that

create a safe and informed

environment

Decisions on your mine - during plan, build and operate - are all about optimising value and safety. Our combination of integrated solutions and services enable optimisation from the

long term mine plan to the short term logistic schedule

DECISION MAKING

We provide collaboration

tools, accurate data and timely analytics to enhance

decision support systems

across the value chain

Our integrated logistics

multiple systems to optimise product movements, rail/port

capability can connect

operations, through

to product delivery

TRANSPORTATION

AND SCHEDULING



CSC's role in end to end mine planning reduces capital investment and risk.

UNDERGROUND Our Decline Traffic Information System uses RFID tags, readers and antennas to increase productivity and improve safety

MAINTENANCE

Our material, repairs and overhaul capability allow us to enhance planning and operations, maximising equipment reliability, lifecycle and production throughput

MOBILITY

Our wide range of fully-integrated mobility services support the remote dispatch of work orders, tracking of fixed assets, mobile assets and people



Reflection on 2018

Outlook for 2019



South African Colliery Engineers Association



"To be a professional, dynamic, value adding and influential body in our industry"



2018 Highlights

- DMR engagements
- Regional and user forums.

- Safety workshops.
- **9**
- Technical Symposium.
- Tripartite meetings.
- \bigcirc
- CM&EE, OH&SPC, PDS, Standards and other COM and DMR / HSC initiatives
- Fund raising initiatives.

Emerging issues

- Mine ownership changes and restructurings membership impact
- Mining Indaba: Mosebenzi Zwane vs the mining Industry ownership, employment equity targets (employee attraction between mines). SACEA diversity
- Labour unrests.
- Emergency preparedness underground.
- Community unrests/activism on the rise on the rise. Social Labour Plan.
- Cell phones and PDS (whole legislation) way forward

2018 Low lights

- Website upgrades.
- Addressing competency challenges.
- Learning and sharing of good practices across mining houses. COPs, SWP, etc. and implementation plan execution
- Women in council.
- PPE standards. 👩

Priorities

- Further improve DMR relationship and mutual respect
- Reduction of repeat accidents.
 - Machine to man (PDS, etc), Lifting and rigging, Conveyors.
- Continue building on previous years' successes.
- Membership growth Small mines.
- Adopt a 20/80 principle. Achieve more with little.
- Participate in Regulatory / Legislative changes SHE.
- Enhancing safety and productivity through innovation / technology.
- Mining automation / innovation to improve safety and production.
- Engineers legal responsibility in event of incident of personnel

SACEA Coal Industry Scenarios

High Demand for Coal



Scenario 2: "Cheap coal is in!"

- Low productivity
 - High CFC, low efficiency, high labour cosy
- High production cost
- CO2 penalties probable
- High infrastructure cost (RB not on time)
- Scarcity of water

Low Profit Industry

Scenarios 3: "Coal not Sexy"

- Alternative energy sources found (shale gas)
- Hydro-Electricity from Moz, Congo
- · Stringent environmental legislation
- Economic crises in RSA
- Affordable renewable energy
- Global depression
- · Regulatory interference

Scenario 1: "Booming Coal"

Shortage of coal supply Acceptable coal pollution solutions – CCS, CO2

Electron/electricity economy growing Clean energy commercialisation slow

High Profit Industry

Scenario 4: "Coal Frustration"

- Over supply in coal industry
 - · Old mines close, forced closures
 - · Waterberg slow
- Change in mining methods productivity up (tools, skills methods)
- Declining reserves
- Slow mining rights conversions
- Slow/no investment by mining houses

Low Demand for Coal

SACEA Coal Industry Scenarios (general indicators SACEA

Divergent paths 2018

- China/India highish demand
- Higher local demand for cheap good quality coal

High Coal Demand

- High economic activity increase energy demand
- High growth in electricity demand
- Energy alternatives do not meet demand
- Environmental solutions to coal pollution

2011



High Profit Industry

Strong average global growth >4% Drives higher growth and prices High coal price

2016

Divergent paths 2017

- Export recovery faster
- Domestic demand increase slightly

Weak Coal Demand

- Low economic growth decrease demand globally and/or locally (also Eskom low demand)
- Energy alternatives commercially viable decrease fossil fuel demand
- Environmental pressures decrease coal use



Long Term Outlook

- Coal RSA horizon now 2050 for both local and export coal
- Coal industry depends on Eskom, Sasol and Arcellor Mittal in RSA
- Disruption event to coal industry will be gas discovery (e.g. Karoo or Outeniqua basin) or 'cheap" IPP power
- CO2 / carbon tax may be industry "disabler"



- New Eskom structure will
 - Put more emphasis on better quality coal
 - Cost pressure on coal and delivery
 - Saving producer effect will cause power disruption
- Reserves left → difficult mining conditions → higher safety risk → cost challenge
- Increasing involvement of local communities (study South American mining model)
 - Level of education
 - Training and development challenge
 - Increase" local content"
 - Local execution of projects challenge
 - Local town development
 - Utilisation of approved resources



- Carbon law tax approved
 - Carbon footprint becomes part of engineering vocabulary
 - Carbon footprint per large equipment piece intensity per running hour = productivity
 - Contradictory forces: Run 24 hours vs do everything in 8 hours
 - Management time increases
- Increased BBBEE requirements (cost/schedule/safety/quality)
 - Women business forums
 - Pressure to use level 4+ suppliers
 - Not enough suppliers in market company development required



- Lack of local investment
 - Slow /no job creation
 - Decline of services / businesses
 - Poverty increase
 - Crime increase → cable theft → risk on mines
- Onerous legislation on machinery / engineering / safety increasing
 - Iso 45000 2019 implementation
 - Air quality act
 - New machinery legislation
 - Consequences of incidents
 - GCC onerous risk
 - Engineering team increasing in numbers → highly skilled



- Role of the OEM is changing
 - Required to meet bee levels to continue trading
 - May require "local company" to provide service/maintenance



- Eskom changes → significant pressure on cost and productivity
 - Capital funding not available for projects
- Need for new contracts/management with communities
 - Educate / train / develop
 - Job opportunities
 - Small business development
 - EMPLOYEE CARE i.e. Transport after hours
 - Employee assistance extended to families
 - EMPLOYEE ESSENTIAL SERVICES i.e.
 - Wi-fi
 - Social labour plan
 - Afterschool classes (math/ science)



- Mining Charter Changes (charter 3)
 - Women in Mining limited resource pool → competition
 - Training facilities must provide for women in mining intake strategy
 - Shift structures/facilities/services must provide for it
 - Family support to women in mining
 - Solutions BY women in mining FOR women in mining
- Truly understanding Digitisation/Industry 4
 - Short term benefits in efficiency/productivity/safety
 - Long term impact in employment/skills/learning
 - Align MQA with these requirements



- Improve the world of the engineer
 - Information overload
 - Legislative requirements
 - Burden of reports
 - Paper war
- Continued strong relationship with the DMR
 - Pragmatic approach to non-compliance
 - Focus on operations complying to own procedures
 - Moved from regulatory risk to compliance risk
 - Focus on sharing of best practices what and how
 - Impact of digitisation on DMR
 - Acceptance of digital job cards



- GCC qualification and the structure going forward
 - Work group currently developing the curriculum
 - Is SACEA actively involved
 - GCC registered as an MQA
 - Questions regarding assessing criteria

Safety in Mining – Themes/focus for FY: SACEA PROFESSIONAL DYNAMIC VALUE ADDING

Safety Theme/Focus	Company	Person
Hand injuries (material handling)	Glencore	Jan D
Equipment catching fire (conveyor belts, machines)	Exxaro	Louis T Stompie
TMM accidents (traffic management)	Sasol	Schalk Hennie Louis T Bonthle
Lifting equipment	Exxaro	Stompie
Process to conduct investigations	Exxaro	Hennie
Safety leadership	Sasol	Louis B Mazwi Johannes
Quality/methodology of risk assessments (baseline, templates, standards)	MGC	Fefa

Current Status/Issues in Colliery Engineering SACEA (summary) SACEA PROFESSIONAL PROFESSIONAL PROFESSIONAL VALUE ADDING

past 6 years....

- Decreasing of coal prices
- Period of large replacement programmes
- New mining projects
- Changes in legislation
- Labour challenges
- Successful SACEA delivery
 - Safety challenges
 - Safety workshops
 - · Conveyor belts
 - · Coal mining fatalities down
 - · 2013 milestones achieved
 - Technical symposiums
 - Nearly 100% membership growth

2019

....future very different

- Low coal prices and expected new norm:
 - Smaller engineering budgets
 - · Sweating of assets
 - · Less replacements
- Increase productivity = cost x time= must add value
 - Association memberships scrutinised for value
 - SACEA reposition for changing industry
- Higher focus on "made in RSA" to limit exposure to exchange rate
- Safety challenge remains top of the agenda
- Stricter governance on proximity detection and collision avoidance
- New electrical regulations change industry
- Productivity drive results in smaller workforce & shrinking membership
- RSA OEMs struggling for existence

Some thoughts from the session



Current Status/Issues

- Cost/ Capital pressure
- Prices New Normal,
- Unrealistic demands
- Coal will remain relevant
- Labour, Skills, talent challenges
- High number of 189's
- Isolism
- Change in ownership,
- Increase smaller players,
- More mergers
- Difficult to comply,

Reaction to change...

Adopt to change Financial control to equal production control

Technology to play a bigger role Maintenance strategies(rebuild for longer), Autonomous operation, integrated safety

Further challenging capital/ cost (stay in business capital)

Avoid the poor man's trap, balance Collaboration become more important

Wider role for SACEA required SACEA needs to take ownership

Discussion with the DMR

Collaboration for a better industry



South African Colliery Engineers Association



DMR Discussion — SACEA Feedback 2019

Formal relationship, with a common goal and specific priorities to achieve zero harm in the Coal Mining Industry

Feedback of focus/contribution by SACEA

- Meeting with DMR 22 February tentative date led by Johannes, Ephraim, Fefa, Jerris, Marcin
- Conduct a SACEA Council meeting at one of the smaller mines – Fefa
 - Special meeting inviting engineers from smaller mines to the meeting
- Zero harm goal contribution for 2019
 - Leading practice sharing
 - Hand injuries (material handling)
 - Equipment catching fire (conveyor belts, machines)
 - TMM accidents
 - Lifting equipment
 - Legal responsibilities, competencies and compliance of the Engineer
 - Upskilling of first-line supervisors
 - Support/attend RTF meetings
- Enable the Safety Officer
 - Reporting lines that empower
 - Engineer mandate to take decisions

Questions we have to MR



- Please provide the detail of engineers and GMs and contact details on smaller mines to SACEA to enable effective engagement by SACEA
 - Provide Fefa's detail to DMR to give to small mining houses
- 2. DMR to encourage engineers in small mines to participate in SACEA/SACMA
- 3. What is the DMR's concern with Safety Officers? What is contributing to this? How can it be resolved?

DMR Feedback 2019 (Ayanda)



- PI will call SACEA/SACESHA/SACMA Presidents for meeting
- SACEA must assist in ensuring that engineers carry their legal duties
- SACEA must be a driver in the industry for engineering-based regulations –
 with a specific focus on small scale mines
- SACEA must be the driver of PDS implementation
- SACEA must develop systems to ensure that engineers enable safety officers to do their work/inspection
- DMR is willing to make sure that they engage with SACEA
- In our first DMR engagement we must prepare high level 2019 approach to enhance the goal to Zero Harm - How are we going to contribute in 2019 towards the goal of zero harm?
- How are we going to assist engineers in the mining houses to reduce accidents?
 - Hand injuries (material handling)
 - Equipment catching fire (conveyor belts, machines)
 - Equipment overturning (open cast)
 - Lifting equipment

DMR –SACEA 2019 interaction Next Step SACEA PROFESSIONAL DYNAMIC VALUE ADDING

- 1. To be concluded once DMR meeting takes place on 22 February 2019
- 2. Meeting postponed due DMR involvement in Gloria disaster rescue operation
- 3. Fefa and DMR team working on new DMR engagement schedule

Inputs from Company HOE's



South African Colliery Engineers Association



HOE's inputs - 2019



- Value addition of SACEA
- Increase SACEA membership especially of young engineers
- Experience and best practice sharing (find ways within competition law to share).
- Productivity improvement
- New technology and digitisation (PDS implementation engage OEM)
- Continue with the DMR engagement and value add
- Industry 4.0, data mining, value of information, real-time feedback of machinery
- Continue with technical visits it adds value
- Work much closer with AMRE (hard rock association) align on key issues like GCC etc.
- SAFETY, SAFETY increase in fatal's a concern
- Marketing of what SACEA is doing



- Foreman competency front line supervisors knowing all legislative and standard requirements (2.9.2 appointee) (User Groups, Dedicated SACEA workgroup)
 - Coaching an skills development of the new
 - Refresher training of the experienced
 - Skills transfer
 - Workload management and resourcing systems to support
- Artisan technical skills (Involve CTC on Council)
 - Skills transfer to new artisans
 - Fault finding skills
 - Ownership of artisans by first line supervisors
 - Upskilling in latest technology
- Roles and responsibilities of Artisans, Foreman and Chief Foreman (Company Specific)
 - Get levels of work right who is doing what
 - Create time for learning and coaching
 - Appropriate culture
 - Coordination of resources
 - Agreed engineering structures/legal appointments



- Control effectiveness (Best practice sharing)
 - Knowing the real effective critical controls
 - Prevention of repeat incidents failure of controls execution
 - Failure of implementation of controls
 - "Why do we have section 54's when we have engineers" stop unsafe work
- Electronic licensing for the competency of operators (Best practice sharing)
 - Electronic management of process
 - Simplify management of competencies
- Community participation and involvement (Company specific)
 - Capture from yesterdays work
- Repeat incidents of the man-machine interface (TMM repeats) (OEM and SACEA)
 - Why do we still have incidents?
- Reliability and availability of machinery (User Groups)
 - Quality and skills of maintenance (maintenance maturity)
 - Ability to plan and execute the plan
 - Unavailability of spares spares management
 - Defect elimination engineer out repetitive breakages. Predictive, RCA
 - Operation of machinery within limitations impact of operating context, competency



- Engineering thought leadership (Regional Meetings, Safety Workshop)
 - Safety
 - Cause and consequence relationship of actions. Why are we doing certain things?
 - SACEA to initiate a HOE combined meeting (SACEA)
- Identification and engineering out of inherent risks in equipment (OEM, User Groups)
 - Pre-empt and proactive correction
- Risk identification and engineering of controls. Normally gap in the gears below. (Sharing of Baseline Risk assessments of critical machinery. Dedicated SACEA workgroup)
 - Baseline risk assessment
 - Control measures and procedure in place
 - Training on procedure and controls
 - Competency declaration
 - Compliance to procedure and controls
- Contractor management (Company specific, Electronic Contractors Pack Management System, e.g. KBC)
 - Ownership
 - Compliance
 - Equipment management



- Implementation of PDS on diesel equipment (Technical Symposium)
 - LHD leading to most fatalities
 - Interface between PDS and PDI
 - Reliability of machines declining
 - Traffic management plan
- Unpractical standards (Best practice sharing, Technical symposium)
 - Pullwire
 - Electrical installation standards
 - Lock-out vs lock-off
 - Remote lock-out

SACEA in Reflection

Collaboration for a better industry



South African Colliery Engineers Association



Scenario: Why will SACEA not exist in 3 PROFESSIONAL DYNAMIC VALUE ADDING

- Fail to lead in Industry 4.0
- Neglecting the relationship with the DMR
- Not perceived to add value to industry
 - Wrong topics
 - Not visible
 - Sharing of information / experience
 - Deliver on hoe/ general manager expectations
- Footprint in the industry too small
 - Not all mines
 - Not all engineering managers
- Perceived as a cost burden by companies
 - Cash flow
- Continuous SACEA membership drive
 - Take charge of engineers
- Easy to get involved

Scenario: Why WILL SACEA exist in 3 years SACEA PROFESSIONAL DYNAMIC VALUE ADDING

- Understand & represent the coal mining industry
- Quality not quantity
 - Do what we say
- The General Manager/HOE view SACEA as part of his business management
- Collective we can learn faster through sharing
 - Leading innovation
- Leaders in the "human" vs" machine" interface and behaviours
 - Not just systems & rules
 - Understanding human behaviour and impact
 - Realising level/magnitude of work
 - Managing "everything" → information overload
- Keep our strategic focus
- Influence to tri-partite
 - Focus
 - Agenda
- Bridge building to alliance partners
- Continued to sell our contribution

SACEA Strategic Direction



South African Colliery Engineers Association







To be a professional, dynamic, value-adding and influential body in our industry

In behaviour, responsible, competent, respected, beyond **Professional** repute, ethical, Adaptable, energetic, pro-active, flexible, challenging **Dynamic** To member and company, leader, participative, to industry, cost sensitive, innovative, standards Value-adding settings/influence, best practice Respected, acknowledged, change initiators, recognized, consulting, networking, representative, Influence Influential body standards Coal Mining Industry RSA, related Engineering fields **Industry** Our sphere of SACEA members and affiliated associations, Influence Chamber of Mines, Government (incl DMR, ECSA, MQA, SANS etc.) labour force, suppliers, learning institutions and the respective Coal mine industry

Mission (Improvements)



- To actively influence the development and compliance to practical <u>safety</u>, <u>health</u>, <u>environmental and sustainable development legislation</u>, <u>leading</u> <u>practices and standards</u>
- 2. To **empower members** through effective interaction and to promote professionalism
- 3. To be the acknowledged <u>representative body for members and industry</u> in influencing policy formulation in decision making forums
- To influence and lead the <u>technical maturity and sustainability</u> of the coal mining industry
- 5. To add significant <u>value to the Coal mining industry</u> through our competent members
- 6. To have <u>maximum impact in the Coal mining industry</u> through our association with other Professional Associations
- 7. To positively impact the quality and quantity of technical skills development

Strategy 2010 - 2012



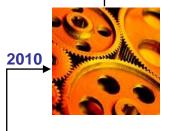
To be a professional, dynamic, value-adding and influential body in our industry

2012

"Colliery Engineering is special – visible and valued in Southern Africa"



"Leverage the integrated solutions to influence responsible industry delivery



Where we are

2011

"Formalising and adopting integrated best practice solutions towards the coal engineering community (Safety, standards, skills, GCC and forum focus)

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Strategy 2013 - 2015



To be a professional, dynamic, value-adding and influential body in our industry



industry (GCC qualifications, leading practices and new legislation)

Where we are

Strategy 2016 - 2018



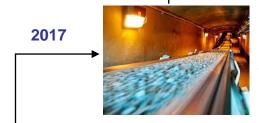
To be a professional, dynamic, value-adding and influential body in our industry

2018

Lessons learned from incidents. technology development, leadership practices

Leading practices sharing to achieve zero harm production

> Enabler – digital media, forums, social platforms, technical visits



Agreed leading practices sharing through modern networking



Where we are

efficient and innovative best practices

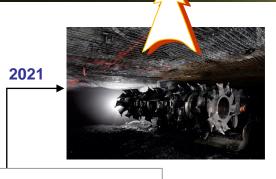
Leading in challenging times through

Technical mposium

Strategy 2019 - 2021



To be a professional, dynamic, value-adding and influential body in our industry



Next levels of productivity – turning the curve



Ready for Industry 4 – benefit and impact understood



Safe production is PRIME – zero harm, always better!

Where we are

Strategy 2019



Safe production is PRIME – zero harm, always better!

Productivity

Leading practices sharing

Digitization

- Synergy of Production vs Safety
- Identification of barriers to productivity
- Meeting cost requirements from consumers
- Support the development of local OEMs
- Identification of relevant best practices
- Effective and rapid sharing of best practices
- Standardisation of best practices
- Lessons learned from incidents, technology development, leadership practices
- Modern networking, digital platforms
- Connectivity and infrastructure e.g. wifi
- Electronic work and jobcard methods
- Industry 4 application in coal mining
- Real-time and predictive safety and equipment management
- Skills development of the future Technician

2019 Strategic Objectives

Council high level Objectives & Performance!



South African Colliery Engineers Association



SACEA Strategic Objectives 2019

2019 – Do survey to measure membership value, and track participation - Annette ← ⊾ Δ

	track participation - Armette res			
Objective	Principles	Metric	Actual '18	Target '19
Membership	10% increase	Total Full Members	360 187	retain 370 193
		Candidate Members (PIT/EIT) Affiliate Honorary Life Honorary Associate	111 (+19?) 35 15 1	137 Focus on small mines
		Retired	11	Focus on small milles
SACEA Diversity	Council representative of membership	Co-opt 4 (22 max on council)	10 total, 4 women 20 Women SACEA	>12 diversity on Council >25 Women on SACEA
ECSA	SACEA program fully provides CPD compliance Drive to increase registering process	Full Members Council	members with voting rights = 51% 188 ECSA Registered Accredited to 2023	Retain VA Status (50% member, 50%+1 council)
Financial	Y-o-Y break even, OPEX for +1 year + delta shared cost Membership income = shared cost No audit findings	Cash Objective Acc Funds	Bank R104,033.89 Debtors R133,228.17 Investment R552,197.05 Total R823,591.08	Small surplus >R700,000
Nr. of Engagements	Calendar compliance	Safety w/s, Users Forums, Technical Symposium, Regional. Young Talent Forum	UG user group a challenge. Doing well in others	90% Compliance
Attendance nr.	5 off north Regional> 50, 3 off southern > 15, 2 of limpopo >20, 2 off each ug/oc/plant User Groups >20, 10 off Council > 70%	Quality and Value add Timeous advertising Supported ito attendance	Plant, OC good, Region> 30 U/G not good Council ~ 13 AGM not good Combined not good	U/G >20, O/C>30 Regionals > 50, Plant > 40, PIT>30 Council > 15/22
Influence	Attend Chamber/Ind. bodies such as CM&EE. OH&SPC, MPAS, Tri-Partite, AMRE,SANS,SAFA	Legislation/Standards TMM/Electrical GCC work groups	General good Do more about Tri-partite OC	Good Relationship and influence
Cert Eng Qualification	Guaranteed grand-fathering Ensure safe mining industry and competency	Improved GCC pass rate > 20%(increase pool for coal industry)	Plant > 23% Law > 45% GCC WS = 108 attendees	Coal >20%
Safety	Ensure safe mining industry via aligned/agreed standards	Sharing of safety info and best practices	PDS sharing to improve, Good more, Elect Regs in draft, more	

Roles and Responsibilities

Who is accountable for What?



South African Colliery Engineers Association



Council Responsibilities: Forums



	Chair	Vice-Chair
SACEA Council	Marcin	Annette
Southern Region	*SACMA	*SACMA
Northern Region	Mazwi	Hennie
Limpopo Region	Darryl	Stompie
Under Ground User Group	Louis T	Tejal
Open Cast User Group	Bontle	Fefa
Plant User Group	Jan D	Jan C
Young Talent Forum	Francoise	Louis D
RTF – Underground RTF – Open Cast	Ephraim Bontle	Jerris Fefa

Council Responsibilities: Events



	Chair	Work Team
Safety Workshop	Louis B	DMR: Johannes DMR: Fefa
		RTF: Ephraim/Jerris
Technical Symposium	Jerris	Sasol: Schalk Exxaro: Stompie Glencore: Jan Anglo: Annette SAEC: Johannes Seriti: Francoise Amre: Marcin
		UG: Tejal OC: Bontle Plant: Jan
		Small Mines: Fefa Universities: Louis T

Council Responsibilities: Company Representatives



	1 st	2 nd
Exxaro	Stompie	Hennie
Sasol	Schalk	Louis
Glencore	Jan D	-
Anglo American	Annette	Jan C
SAEC	Johannes	-
Seriti	Francoise	
Eyethu coal	Fefa	
Small Mines	Fefa	Marcin

Strategic Influence Thrusts Compelling us to action

Thrust`	Champion	FOCUS and	DELIVERABLES for 2019
Collaborate with the DMR DMR – Engineering Safety Engagement	President & Vice Johannes Mazwi/ (Jerris) Fefa/ Ephraim	Changes to to Regulations Learn & Share	 Info sharing on Section 54 Understand DMR expectation Strong partnership with regional Principle Inspector and Senior Machinery inspectors - agreed priorities between SACEA and DMR (workshops) New regulation implementation – sharing of best practices, clarify issues, share knowledge (Conveyors, TMM, Fatigue, Electrical Regulations) Tripartite Forums (Regionals, Task teams)
Support the industry milestones	Jerris - Underground Jan - OH & SPC Annette - PPE Women Derrick - MOSH	Collaboration With State With State Institutions	 New changes: PPE for Women, Noise, Dust Participation in working groups (ensure early input) Participation in MRAC task teams PDS – Sharing of knowledge and leading practices, compliance issue MOSH adoption workshops & standards
Build and grow membership	Membership Lead Regional Chair Company Reps	Survival of SACEA	 Acquire database at DMR & Contact smaller mines SACEA Data base update & Contact members Real-time communication on key issues via e.g. WhatsApp Weekly communication on key incidents/news to Mining House Ensure that candidate members are converted to full members Engaging with EM's ito support
Competency defining and development	Ephraim - GCC Francoise?- PIT & YTF Dave Gravett - CTC Stompie/Louis T - Leadership	Skills Development nput into egulatory	 MQA,CTC, GCC Develop competency tests Involvement of PITs in Young Talent Forums Submission of questions for papers Involvement in Annexure E review and findings
Setting of specifications and standards	Henk/Aldine – SANS/SAFA Gerald/Schalk – BP & TMP	Changes hare best practices	 Update of SANS SAFA Feedback Develop Best practice Guidelines

4. Traffic Management Plan

Strategic Influence Thrust Compelling us to action

		ennig us co	CACEA
Thrust		FOCUS and	DELIVERABLES for 2018
HOE/EM that action SACEA solutions	President, Vice & Company Reps	Alignment & support	 Clear rationale and contribution from SACEA in 2016 focussed agenda Focus on HOE/EM and DMR issues – focussed agenda, clear KPI's Practices to measure productivity in Mines Eskom load shedding – ventilation and getting people safely out of mine
Improve communication	Anette P/ Tejal/ Louis T – Website (Service Provider)	ommunication	 News letter Hymn Sheet Program Adverts Surveys Website & Mobile App
Knowledge sharing	Louis D/Tejal/Francoise	Share best practices	 Safety collaboration platform(Drop Box) Linked In Best practice Library
Technical, ECSA registration, CPD, safety programs	Jerris/Louis T – Tech Symp Aldine/Mazwi - ECSA User Groups Louis B/Schalk – Safet y WS	Skills evelopment	 Successful Safety Workshop DMR Safety Workshop Successful Technical Symposium Execute 2018 monthly themes via workshops, Forums, etc. ECSA VA influence and BE bill management
Financial Sustainability of SACEA	Louis B Stompie	Survival of SACEA	 Risk of Mining Houses stopping support (cost pressures) – members pay Minimise time at events and maximise value Available cash > R700,000
Other Industry Influence Spheres Participate in legislation formulation	Aldine/Mazwi- ECSA Hennie/ Schalk – CM&EE/CoalTeach Jan D/Jan C – OH& SPC Henk/Johannes – SAFA/SANS Ephraim/Marcin - MPAS	Input into Input into Industry Standards Share best practices	 ECSA -VA status, CPD, registrations support, feedback CM&EE – Influence in legislation OH&SPC – Influence in legislation SAFA/SANS – Influence in stds MPAS – Influence in collective governance Sister associations to wit collaboration re-

Communication Strategy

Selling the Value Proposition



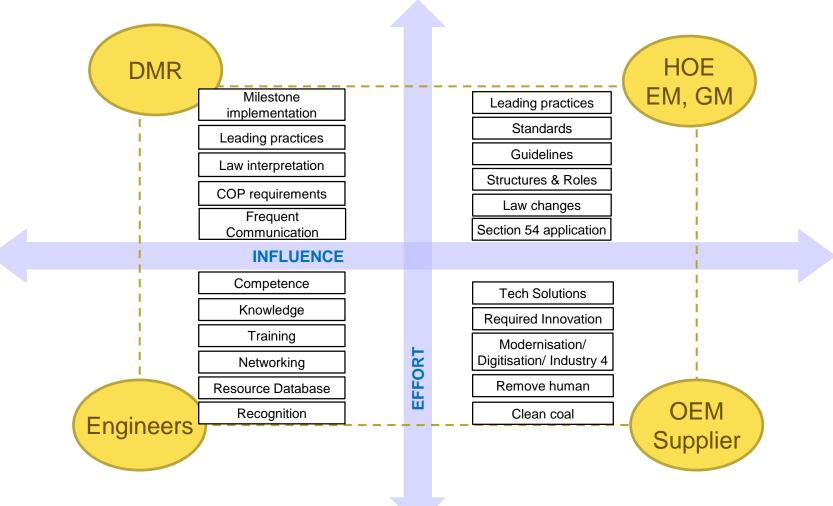
South African Colliery Engineers Association



Strategic Relationship Diagram

The strategic themes highlighted per key stakeholder





Membership Value – Communication Structure SACEA PROFESSIONAL DYNAMIC VALUE ADDING

What are we getting right?

- Council WhatsApp group
- Communication hymn sheet
- Advertising and marketing around Safety Workshop and Technical Symposium
- DMR engagement

Where did we fail?

- Late notification of user group meetings
- 2. Sudden change of meeting dates and venues
- 3. No reminders to chairmen
- 4. Website not up to date, outdated. View and content not good
- 5. No newsletters in 2018
- 6. No feedback from industry forums
- 7. No blog on topical issues
- 8. Adherence to POPPI on data security
- No webcast of forums
- 10. What is our website/ communication strategy
- 11. No clear accountabilities
- 12. Poor response/engagement from communication requests

Membership Value – Communication Street, SACEA PROFESSIONAL DYNAMIC VALUE ADDING

Decision approved on 10 February 2019

Communication

- 🧶 Website New 🤡
- Facebook
- Instagram
- WhatsApp invites Poster Invites (Council)
- WhatsApp group All (Admin only)
- WhatsApp Company Reps = Comms Rep (with Feedback)
- Emails notices via MPAS
- Email invites on diary for all
- "From the Council's pen" electronic monthly newsletter
- Communication surveys
- Podcasts and video streaming(Louis T)
- Journalist to attend big meetings and write article

Branding

- Clothing (formal/ informal)
- Member of the Month/Quarter (Postponed)
- Company of Month/Quarter (Postponed)
- 🧶 Banners 🙋
- Member survey
- 1 Month in advance

Membership Value - Communication St.

Closed website for all engineering content and membership detail

What content should be on the Website?

- Annual calendar and events
- Introduction to SACEA including strategy and annual report
- SACEA Council members and roles (face)
- Every presentation from a User Group, Regional Forum, Workshop, Technical Symposium
- Best Practices sharing
- Exam questions and answers and or links to original websites
- Links to industry websites
 - Emerst
- "Blog" on subjects for events
- Join SACEA application
- Contact SACEA

Communication Pillars

SACEA

- 1. Fix and schedule annual calendar after strategy session and stick to it
- Raymond to electronically schedule all meetings via outlook to all relevant SACEA members
- 3. Events promoted on all platforms
- 4. Use Regional Meetings to test live streaming platforms

Monthly content responsibility for "From the Council's pen" – event, commentary, ne Submission on Council Meeting following the month of content Submission on Council Meeting following the month of content

Month	Responsible content providers
January'20	Tejal
February	President – incl strategy
March	Schalk
April	Schalk, Hennie
May	Schalk, Ephraim
June	Schalk, Jerris
July	Schalk, Annette
August	Schalk, Mazwi
September	Schalk, Fefa
October	Schalk, Stompie
November	Schalk, Johannes
December	Schalk, Jan D

2019 Calendar and Topics

When & What we will do!



South African Colliery Engineers Association



SACEA Business Cycle: 2019 **SACEA** PR 2 SIONAL DY SOURCE VALUE ADDING 3 2 2 2 2020 Holiday Holiday Holiday 3 9 6-7 14 CoalSafe SAFA Symp Symposium **MRS** Coal Tech Safety (Louis) 14 4 15 **MRS** Safety Safety **MRS** Safety Workshop Workshop Workshop (Louis) (Louis) (Electrical (TMM (Fire prevention) 7 16 4 2 1 27 7 Council Council Council Council Council Council Council Council (Bontle) (Mazwi) HOE (Annette) (Marcin) (Johannes) (Jan D) 6 (Hennie) 26-28 15 AGM (Louis B) 16 Meetings XX Joint Ass. President **Joint** GCC GCC 14-16 SACMA/ **AMRE Function** Workshop Workshop SACEA Strat SACMA 6 Plan Golf Day RaceDay (All Associations 28 13 14 Regional-N YTF Limpopo Regional-N Limpopo (With SAFA) 23 YTF 2 29 U/G Plant U/G 31 23 Committees **Plant** O/C O/C 27 30 29 31 25 27 CMEE & EE 16 15 14 RTF-UG RTF-UG RTF-UG Jul Feb Apr May Jun Aua Sep Nov Dec Jan Mar Oct

SACEA Business Cycle: Monthly Communication Plan



2020						2019		VALUE ADDING				
			ı	loliday		Н	oliday		Н			Holiday
ity					Mont	hly Commun	ication and /	Audience				
Safety					WOTE	iny Commun	ication and F	ludience				
S	Hymn sheet Council/HOE	Hymn sheet Council/HOE	Hymn sheet Council/HOE	Hymn sheet Council/HOE	Hymn sheet Council/HOE	Hymn sheet Council/HOE	Hymn sheet Council/HOE	Hymn sheet Council/HOE	Hymn sheet Council/HOE	Hymn sheet Council/HOE	Hymn sheet Council/HOE	Hymn sheet Council/HOE
	Presidents Pen	Presidents Pen	Presidents Pen	Presidents Pen	Presidents Pen	Presidents Pen	Presidents Pen	Presidents Pen	Presidents Pen	Presidents Pen	Presidents Pen	Presidents Pen
	AGM Advert	AGM Advert	Members Survey	GCC Workshop Advert	Tech Symp Advert		Joint Meeting Advert		Presidential Advert	Joint Meeting Advert	AGM Advert	AGM Advert
Meetings	Strat Plan Advert		Regional Meeting Advert	YTF Advert	Limpopo Advert	SIMPOSIUM ADVERT	Safety Workshop Advert	Presidential Advert Members	Printed News Letter	Golf Day Advert YTF Advert		
Me			Safety Workshop	Usergroup Adverts	Electronic News Letter	Race Day Advert	Usergroup Adverts	Survey	Safety Workshop Advert	Limpopo Advert		
			Advert HOE Advert	RTF Adverts Tech Symp Save the Date	Race Day Advert	Regional Advert	Presidential Advert		GCC Workshop			
				Exam quest	ions be subm	nitted at the C	ouncil Meeti	ng following th	ne event abov	е		
ittees				GCC Exam Question: Henk	GCC Exam Question: BBS-Aldine	GCC Exam Question: Jerris	GCC Exam Question: Louis D	GCC Exam Question: Jan	GCC Exam Question: Aldine	GCC Exam Question: BONTLE	GCC Exam Question: ANETTE	
Committees					GCC Exam Question: SCHALK	GCC Exam Question: Gerald		GCC Exam Question: Marcin				
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec

Topics for calendar 2019



Technical - More with less Safety link to production

- Tyres 💽
- Gas and welding
- PDS 🐼
- Conveyor fire detection and COP
- Dust and noise (older diesel engines)
- Communication systems, cellphones (radio, WIFI)
- Lifting and rigging
- Rust and paint, structural integrity
- LDV's (min requirements, risk assessments
- Electrical Reticulation compliance, cable theft
- VFD's & Earthing
- Equipment failure analyses & Best maintenance Practices coupled to production (integrated approach)

Safety

- Safety Learnings & Legislatio
- Section 54/55 repeats
- Sharing between parties incidents
- Risk assessments & risk control
- Critical Controls

Standards and Specifications

- SOP and COP (checklists)
- Testing of people (
- SANS & Compliance
- PPE industry standards (women)

Training and skills

- Training & Competence
- Annexure E GCC support
- Leadership

Competencies

- FLS Foreman qualification
- Legal appointment training 2.9.2
- Compliance standards, DMR SANS vs MHSA
- Business partners support & Standards 7

- Fitting **W**
- Electrical W
- Boilermaking [[]]



New Topics for calendar 2019

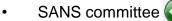
Marketing & Growth

- Membership drive
 - Target 25 increase
 - **Smaller mines**
 - Affiliated conv
 - Candidate conv
 - Honorary Life Membership
- Communication team
 - Website & PowerPoint slide
 - Surveys Culture of SACEA Modernize
 - **Publications**
 - Mechanical Engineer
 - Mining review ()
 - Multimedia platform
- Prestige recognition committee (
 - **Event**
 - Industry innovation
 - Best papers
- Golf day, Race Day, Presidential

Influence

- DMR Engagement committee
 - Small mine list
 - New regulations re: Fire COP, Etc,
- ECSA 💽
 - Value
 - Council registering
- CM&EE
 - SANS VS MHSA
- OH&SPC

Standards and Specifications





- Certification flp/conveyors
- Access
- Maintenance Good practices 🚺
 - **Business Partners support**
 - Best maintenance Practices
 - Conveyors Maintenance standards



- Testing of estops
- Splicing etc.
- PPE standards (
 - Safety glasses
 - **Boots**
 - Gloves
- Transport standards (1)
- Fire COP stds
- Electrical Stds

Safety

- Safety workshops
 - Themes will flow from DMR engagement
 - Leadership in Safety
 - **PDS**
 - Section 54/55 repeats
- Safety Guidelines
 - **Stored Energy Document**
 - Conveyors (Pull wires)
 - Rigging and Lifting





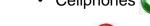
New Topics for calendar 2019

Competency

- CTC
 - Coal value
 - Wiremans license
 - Newer technology training
 - Flameproofing refresher
 - Foreman Qualification
- Leadership Competencies
 - Foreman coaching
 - Engineers Coaching
- GCC Exams
- YTF 🕢

Innovation

- Innovation mines of the future the practical application
 - Drones 🚺
 - Semi autonomous (3)
 - Visibility
 - Augmented training
 - PDS
 - Cellphones



- Productivity W
- Equipment life extension beyond design life



- HOE/SACEA Council Meeting
- Casual Get together
 - EM meeting feedback
 - President visit to HOE/EM per mining grroup





Council Agenda – 2.5 hours

Time: 13:30 – 16:00

Principles: 1 - Representatives of Forums will provide summary feedback 5 days before meeting to Raymond

Principle 2: - HPI Learnings distributed by respective Mining Houses to Raymond as it occur

General Council Meeting (165 minutes)

- 1. Opening & Attendance (5 min)
- 2. Safety share (45 min)
- 3. Forums feedback (45 min)
 - 1. User Groups (UG/OC/Plant) (15 min)
 - 2. Regionals (North, South) (15 min)
 - 3. Specialist Forums and Committees (15 min)
- Strategic Calendar Events and Progress (10 min)
- 5. Monthly Execution Plan (30 min)
- 6. Safety Review (10 min)
- 7. DMR Regulations and Feedback (10min)
- 8. Communication monthly (15 min)
- 9. Membership and Finance (10 min)
- 10. **Quarterly Scorecard Review (10 min)
- 11. Minutes (10 min)
- 12. Actions Arising from Previous Minutes (10 min)
- 13. Closure

Council Accountabilities

Through Whom we will manage!



South African Colliery Engineers Association



"To be a professional, dynamic, value adding and influential body in our industry"



				PROFESSIONAL
Nr.	Photo	Name	Role	Mine
1		Marcin Hyra	President /MPAS/SACMA Council/HOE Engagement/Presidential Function/AGMFinance and Debt Mngt Chair /	Coal Mine Management Services
2		Annette Prinsloo	1st Vice President /Communication 1st	ANGLO COMPANY REPRESENTATIVE Anglo Operations (Pty)
3		Hendrik Lombard	2 nd Vice-President/ 2 nd Northern Regional/ 2 nd CM&EE/2 nd COALTECH/ Communication	Exxaro Coal (Pty) Limited
4		Ephraim Mojalefa	Past President/GCC/ Tripartite/DMR Mpumalanga/	Anglo Operations (Pty) Ltd
5		Louis Turvey	2 nd Underground User Forum/ Leadership Development/ Communication 3 rd	Exxaro Coal (Pty) Limited



				DANIAMIC
Nr.	Photo	Name	Role	Mine
6		Bontle Mtshengu	Open Cast Users Forum, RTF-OC	Exxaro Coal (Pty) Limited
7		Jan Coetzee	2 nd Plant Users Forum/ 1 st OH&SPC	Anglo Operations (Pty)
8	300	Jan Diedericks	Plant Users Forum/2 nd OH&SPC	GLENCORE COMPANY REPRESENTATIVE Glencore Coal - Glencore Ops SA(Pty) Ltd
9		Fefa Moleleki	Small Mines, 2 nd Open Cast Users Forum, RTF-OC, DMR	SMALL MINES COMPANY REPRESENTATIVE
10	In the second se	Mazwi Buthelezi	Norther Region, DMR, Safety Workshop/ECSA	Sasol Mining (Pty) Ltd



Nr.	Photo	Name	Role	Mine
11	V/A/	Schalk Van Wyk	CM&EE/Technical Symposium/CoalTech/ Communication/ Best Practices/ Leadership Development	Sasol Mining (Pty) Ltd
12	9	Louis Delport	MRS /YTF 2 nd	Sasol Mining (Pty) Ltd
13		Stompie Nel	Finance & Debt Mngt. 2nd Limpopo Region/ Leadership Development	EXXARO COMPANY REPRESENTATIVE Exxaro Coal (Pty) Ltd
14			Limpopo Regional/ DMR Limpopo	Exxaro Coal (Pty) Ltd
15		Louis Botha	Safety Workshop/Gold Day/ Leadership Development	SASOL COMPANY REPRESENTATIVE Sasol Mining (Pty) Ltd
13		Louis Dollia	Dovolopilion	Casor Willing (1 ty) Ltd



				PONTATUE
Nr.	Photo	Name	Role	Mine
16		Henk Zwart	SAFA/SANS chair/	Private member
17	6	Hendrik Lombard	2 nd Vice-President/ 2 nd Northern Regional/ 2 nd CM&EE/2 nd COALTECH/ Communication	Exxaro Coal (Pty) Limited
18		Jerris Subermoney	Technical Symposium/DMR engagement/ RTF	Sasol Mining
19		Aldine Bezuidenhout	ECSA/SANS/Electrical stds Committee chair/ Electricity Task Team (MHSC)	Sasol Mining (Pty) Ltd
20		Johannes Nkosi	DMR engagement/ Technical Symposium	S32 COMPANY REPRESENTATIVE South32 SA Coal Holdings (Pty) Ltd



				PROFESSIONAL
Nr.	Photo	Name	Role	Mine
21			Underground User Group/ 2 nd Communication/ Technical Symposium	Sasol Mining (Pty) Ltd
22		Francoise du Preez	YTF 1 st / Communication	Seriti

QUESTIONS?



