



**SOUTH AFRICAN COLLIERY ENGINEERS' ASSOCIATION**

**ANNUAL REPORT OF THE COUNCIL  
FOR THE YEAR ENDED 31 DECEMBER 2014**

**COUNCIL 2014**

**President**

G Q Gething  
Glencore Coal South Africa

**1<sup>st</sup> Vice-President**

J W Nel  
Exxaro Coal South Africa

**2<sup>nd</sup> Vice-President**

L D Turvey  
Total Coal South Africa

**Immediate Past President**

L Kilian  
Exxaro Coal South Africa

**Regional Chairmen**

**Gauteng/Mpumalanga/ Free State Region**

S N S Buthelezi  
BHP Billiton Energy Coal SA  
( Resigned August 2014)

T Subermoney  
Sasol Mining

**Kwazulu Natal Region**

E Trouw  
Msobo Coal

**Limpopo Region**

J Sithole  
Exxaro Coal South Africa

**Elected Members**

A Bezuidenhout  
Sasol Mining

L D Botha  
Sasol Mining

Z A Botha  
FLSmith (Pty) Ltd  
(Co-Opted)

C S Booyens  
Anglo American Thermal Coal  
(Co-Opted)

J S Buckle  
Coal Mine Management Services

J Diedericks  
Glencore Coal South Africa

L Delpont  
Sasol Mining  
(Co-Opted)

J Malan  
Total Coal SA  
(Co- Opted)

P E Mojalefa  
Anglo American Thermal Coal

J Prinsloo  
Resgen SA

H Zwart  
Consultant

**Secretary**

Mr S J Orchardson  
Association Secretary

## **VISION STATEMENT**

The vision statement is

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

## ***REPORT OF THE COUNCIL FOR THE YEAR ENDED 31 DECEMBER 2014***

The annual report presented to members of the Association on the occasion of the Thirty sixth Annual General Meeting held at the Grace land Casino, Secunda on Thursday 12 February 2015.

## ***STRATEGIC PROCESS***

Your Council has continued to focus on the Association becoming an effective role player in the Coal Mining Industry. This process would be ongoing as the Council wished to ensure that the Association was effectively marketed and participated in the preparation of new legislation, Codes of Practice as well as safety targets and milestones set by the Mining Industry.

A strategic planning session was held in February 2014 to set out the Association's interaction with its various stakeholders during 2014.

The following priorities were identified and progressed through the year:

- Influencing Policy
- Skills Security
- Communication and Engagement
- Participation and Value
- Technical content
- SACEA Governance

As part of the process the Council issues a communication sheet after each meeting for circulation to Heads of Engineering and members.

The Council met with the Heads of Engineering from the major Mining Houses to discuss the Associations' strategic plan in January 2014 and then again in May 2014 to align itself with the objectives of each of the Mining Houses. This intervention continues to grow in importance and provides a unique opportunity to network with the Mining Houses representatives. The Council also met with the Engineering Managers in April 2014 for the first time.

## ***FINANCE***

The financial statements appended to this report indicate that income for the year amounted to R 1, 570,168 made up of subscriptions received during the year from Full and Student members, Presidential function, interest received from investments, Mini workshops, the successful technical symposium, race day and golf day.

Expenditure amounted to R 1.495,857 giving a surplus of R 74,311. Accumulated funds of R 571,116 will be carried forward to the new financial year.

The successful technical symposium in June 2014 continues to generate funds for the Association and thanks go to Mr M E Thuesen, and his small but highly motivated team for making it a continued success.

As part of the Association's objectives a successful golf day was held in November 2014 which generated a surplus of R 88,211 and a first Race day which generated R 41,228. The events also

promoted fellowship amongst members. The Council thanks Mr L D Botha for his excellent work in making the golf day so successful.

Two mini safety workshops were held in June and October 2014 replacing the traditional annual safety seminar.

This year the surplus was used to partly fund the Presidential function in line with the Association's decision not to solicit sponsorship from outside organisations for the Presidential functions.

The accumulated funds have been used to fund the Association's initiatives on the position of the certificated engineer, licensing, registration as well as an amount donated to charity. The Council regularly strategises on how to make best use of the surplus for the general advancement of the Association.

### ***SUBSCRIPTIONS***

In terms of the Powers vested in it by the Association's Constitution and Rules, Council has agreed not to increase the annual subscriptions for the ensuing year (2015) for Full, Affiliate and candidate members, these will remain at R1080 (exclusive of VAT).

### ***MEMBERSHIP***

The membership of the Association as at 31 December 2014 was 391 (379), made up of 191 (196) Full members, 45 (35) Affiliate members, 136 (134) Candidate Members, 4 retired members and 15 (14) Honorary Life members.

There has been a net increase of 12.

Council records that the percentage registered with ECSA as full members ( having voting rights ) still complies with ECSA's requirement for SACEA to be recognized as a voluntarily Association with ECSA . However a number of members need to join ECSA and others to upgrade their ECSA membership from candidate to full members.

Membership certificates are issued to new members of the Association on a regular basis at Regional Meetings.

### ***MEETINGS***

In addition to the monthly meetings of Council, regular Regional Meetings were held during the year and feed-back from members through their Regional Representatives and Council members, provided valuable assistance to the workings of Council. The increased involvement required by your Council in a number of important areas meant that nine Council meetings were held during the course of the year.

During the year under review, Kwazulu Natal Regional and Limpopo Regional meetings were combined with those of the South African Colliery Managers' Association. The Limpopo Region continues to gather momentum under the guidance of Mr. J Sithole.

The Council and the Regional Meetings, a General Meeting and Joint Meetings with AMRE and SACMA were well supported during the year and shows the commitment by members to the Association.

Once again your President was invited to attend Council Meetings of the South African Colliery Managers' Association and wishes to thank its President, Mr R Chinamatira for assisting in maintaining close ties between the two Associations.

The User Groups (Underground and Plant) had a successful year with regular meetings and several technical visits. The Opencast User Group unfortunately only managed to meet once this year which is disappointing, but a new Chairman has been identified for the coming year. Each User Group has a Council appointed Chairperson who ensures regular meetings and visits of interest.

### ***YOUNG TALENT***

The SACEA Young Talent forum which was established in 2012 continued its good work through the efforts of Ms C Booeyens and Mr L Delpont ensuring that SACEA is a prominent Association which created value to Engineering Professionals in training (PIT's) in 2014.

Technical visits and GCC workshops during the year were arranged to assist PITs with gaining exposure, signing off Annexure E requirements and networking.

### ***INTERMINE TECHNICAL VISITS***

Council will continue to seek out interesting and diverse technical visits for members, providing them the opportunity to experience other companies operations.

There were a number of Technical visits arranged as part of the Underground, Opencast and Plant Users meetings.

### ***MEETINGS OF PRESIDENTS AND VICE-PRESIDENTS***

These meetings provide the management of the Mine Professional Associations Secretariat (MPAS) to manage and organize the day to day work of MPAS under the guidance of the Chairman, Mr A Brown of AMMSA, as well as a useful forum where matters of mutual interest and concern have been addressed with the meeting being held every second month not only twice a year..

### ***SAFETY AND HEALTH***

#### **MINE SAFETY ACHIEVEMENTS**

The Association through Council continues to place a high priority on safety improvements, risk assessment and the elimination of accidents. Reports by members are made at all Association meetings and the DMR is invited to Regional meetings to address members.

Congratulations to the management and staff of all the mines who had safety achievements during 2014. These achievements will be acknowledged on 12 March at Coalsafe 2014.

#### **MINI SAFETY WORKSHOPS**

The Council agreed on a new initiative to replace the annual safety workshop with a series of mini safety workshops focused on topics needing urgent intervention. There were two mini workshop in the year; Earthing and lightening protection on 12 June 2014 and flameproof repairs on 16 October 2014. Papers presented included Installation and Commissioning of a lightening Protection and Earthing system by H H Kanwischer from HHK, Earthing and Lightening Protection by J Van Straten and A Bezuidenhout from Surgetek and Flame proofing repairs typical deviations found by P Prinsloo from Sasol, A guideline for Ex D Equipment repairs as required by ARP0108 and SANA 60079-19 by David Maree from Explolabs, Comparison of the IECEX service scheme vs RSA markscheme requirements by R Viljoen from MASC, SAFA Responsibility of the repair facility by P Meanwell from SAFA and Legal Requirement and implications of non-conformance by A Coutinho from DMR. A comprehensive discussion session followed the presentations which was also very beneficial to delegates.

#### **2014 COLLIERY HEALTH AND SAFETY CAMPAIGN (COALSAFE)**

Your Association has once again been actively involved in the 2014 Colliery Safety and Health Campaign launch which took place on 16 April 2014 and remains fully committed to the Campaign's ideals for the promotion of safety and health in the Mining Industry.

**MINESAFE 2014**

Your Association also took part in the Minesafe 2014 at Emperors Palace in October 2014. Minesafe 2014 was the fourth joint collaboration of hard rock and coal mines on safety, occupational hygiene, environment and community, ending with presentations of safety achievements.

***MINERALS ACT AND REGULATIONS*****MINING QUALIFICATIONS AUTHORITY (MQA) AND ENGINEERING COUNCIL OF SOUTH AFRICA (ECSA)**

Your Association continues to play an active role in MQA and ECSA matters.

**MPA STEERING COMMITTEE (STEERCOM)*****Regulation of Engineering Professional practitioners in the SAM&MS***

- The MPA Steering Committee has for a number of years played a very important role in developing the final draft Stage 2 (Quality Council for Trades and Occupations (QCTO)) qualifications for the professional development of certificated Managers and Engineers in the SA Mining and Minerals Sector which is now completed. This was achieved through the Council's effective participation in numerous relevant initiatives and External Forums.
- With the majority of work done the Council decided to suspend further work and reassess its future involvement through the Steering committee which has been placing a financial burden on the Association. The Council together with the SACMA Council will consider what areas need to be addressed in 2015 and whether this could be done with collaboration with the Chamber of Mines, ECSA and MQA.

**THE ENGINEERING COUNCIL OF SA (ECSA)**

Your Association continues to play a very active role as a recognised Voluntary Association within ECSA.

The Association continues to meet its Voluntary Association status with ECSA and was granted its renewal of its VA status for a further 5 years in 2014.

**OCCUPATIONAL, HEALTH AND SAFETY POLICY COMMITTEE (OH&SPC)**

The Council would like to thank Messrs J Diedericks/J Malan for attending and their contribution.

The main focus of this committee is to represent employer bodies at a Chamber level on redrafting of legal requirements and other issues that may affect the Industry.

One of the focus areas was the representation of the Industry at the DMR to review the requirements of the conveyor regulations which were subsequently gazetted during the year

***SENTINEL RETIREMENT FUND***

The Association has actively participated and regularly received updates on performance through the South African Colliery Administrative and Financial Managers' Association's elected Trustee on the Sentinel Retirement Fund.

**PAPERS AND TECHNICAL NOTES**

Your Council would again urge that members offer technical papers for presentation at SACEA meetings, besides being a valuable source for the dissemination of information, also serve as an educational tool for future engineers.

The following technical papers and presentation was made at the Association's General Meeting on 29 August 2014:

- \* PDS Collision Avoidance implementation at Anglo American Coal South Africa by Q Coetzee
- \* Hand free rod handling directional drilling by H Von Fintel.

The following technical presentations were made at the Association's Regional Meetings during the year:

- \* DMR Safety Performance by J Coetzee (DMR Limpopo)
- \* Stored Energy on surface drill rigs by B Mtshengu
- \* Future Mine by J Marais
- \* ECSA PR status application process by ZC Nokwe
- \* SACEA and SACMA strategic focus areas by J Sithole and W Van Straten
- \* Commissioning GG7/8 beneficiation plant by Ms. G Legodi (Metallurgical Engineering)
- \* Mining over an underground shaft using 3D Scanning and modelling by T Smith, Chief Surveyor
- \* Improving conveyor belt operating life by J Pillay (Brelko Conveyor Products)
- \* Underground services detection by M Kumm (AOC Geomatics)
- \* DMR Safety Performance by A Nkosi (DMR Mpumalanga)
- \* SACEA Strategy by G Gething
- \* CAT and Barloworld Equipment drag line by V Carter and N Erasmus
- \* Lifting Equipment Management system by S Walker
- \* Dragline Boom Maintenance Strategy by J Grobler and AM Jenson
- \* Dragline and shovel Buckets by B Haasbroek (VR Steel)
- \* DMR Accident 2014 Overview and Analysis by A Nkosi (DMR Mpumalanga)
- \* RotaBolt Tension Control Bolts by J Walker
- \* LSS Proud Sole Distributors of Harnessuit by M Leiman
- \* Oil Clean Technology by C Marais
- \* Mining Industry Safety and Health – PDS and MOSH adoption by H Storbeck
- \* Safety Stretcher by K Badenhorst (Atubi (Medical Products))

The following technical presentations were made at the Association's User Meetings during the year:

- \* Early warning security systems by K Rademeyer (EWC Corp)
- \* Independent Inspection Services by N Welsh
- \* Expert Mining Solutions and Explolabs by R Venter
- \* Caterpillar Hydraulic Mining Shovels by W Kraan
- \* Equipment Mining Solutions by V Aucamp
- \* Caterpillar Crawler and Rotary Drills by R Glaus
- \* Smart Cap (Fatigue Monitoring) by R Venter
- \* PDS for Opencast by R Venter

**MERIT AWARDS**

Certificates of Merit were awarded to all the presenters (members of the Associations) who made presentations at General and Regional Meetings during the year.

The standard and quality of technical papers presented during 2014 continue to be of a high standard. The Editorial Committee has reviewed the 2014 papers presented at General, Regional, Users Group

Meetings and the Technical Symposium is pleased to award a merit award to Mr C Williams for his paper “In-house Condition Monitoring/Predictive Maintenance at Sasol Mining”.

### ***AWARDS SCHEME***

Your Council introduced an award’s scheme in 2000 utilising the Association’s surplus funds to promote the advancement of education within the engineering discipline of the Coal Mining Industry.

The best apprentice award for 2013/2014 at the Colliery Training College was awarded to Mr M G Kgopane at a function in May 2014.

The award for the best certificated engineer was not awarded in 2014.

### ***PRESIDENTIAL FUNCTION***

The 2014 combined General Meeting and Annual Presidential Function was held at the Fairmont Zimbali Resort on the Kwa Zulu Natal coast on 28-31 August 2014. The function was attended by 58 members and provided an opportunity for members and their families to network and share information.

The successful Presidential function culminated with the traditional Black Tie banquet on 30 August 2014.

### ***REPRESENTATION***

The Council wishes to express its appreciation to all the representatives and alternates who continued to give their time to ensure that the Association was well represented and its views made known, in a most professional manner on various committees.

<b>4. <u>Representation and Key Performance Areas</u></b>		
<b>i)</b>	<b><u>Influencing Policy</u></b>	
	DMR Intervention	President/JW Nel
	Chamber of Mines - OH&SPC	J Diedericks/J Malan
	- CM&EE	J Buckle
	Standard Formulation ( SANS TC 65)	A Bezuidenhout/H Zwart
	SAFA	H Zwart/L Botha
	MOSH Adoption	J Subermoney
	SACEA/SACMA Steering Committee	L Turvey/JW Nel
	SANS TC 82 Mining Machinery	J Prinsloo
	SANS TC 66 cables	J Malan
	Safety Workshop	L Botha/ C Booyens
	BeltCon & SafeCon	L Kilian
	MRS	G Gething
<b>ii)</b>	<b><u>Skills Security</u></b>	
	Young Talent Development	L Delport/C Booyens/ Z A Botha
	Commission of Examiners (GCC)	P E Mojalefa
	ECSA – Registration	A Bezuidenhout/J Prinsloo/J Subermoney
	MQA	L Turvey/L Kilian
	SGB	Z A Botha



	ESGB CTC GCC at small mines	TBA J Buckle PE Mojalefa/J Buckle
<b>iii)</b>	<b><u>Communication</u></b>  Website Newsletter  SACEA Communication Sheet  HOE Engagement  EM Engagement	H Zwart L Delpont/C Booyens/ PE Mojalefa PE Mojalefa/C Booyens & representatives President & representatives President & representatives
<b>iv)</b>	<b><u>Participation and Value</u></b>  Membership Model Regional Meetings  User Groups - Opencast - Underground - Plant Small Mines  Golf Day Presidential Function Recognition and Awards	L Botha/TBA J Subermoney/ J Sithole/E Trouw  TBA J Malan J Diedericks J Buckle  L D Botha President Vice-Presidents & Regional, User Group Chairmen
<b>v)</b>	<b><u>Technical Content Delivery (Excellence)</u></b>  CPD Administration (ECSA) Limpopo Expansion Technical Symposium Safety Workshop	A Bezuidenhout J Sithole J Subermoney/L Delpont L Botha/C Booyens
<b>vi)</b>	<b><u>SACEA Governance</u></b>  Finance and Administration (Cash & Debtors)  Subscriptions/Custodians • Sasol Mining • BECSA • Glencore • Anglo Operations • Exxaro Coal • Mining Contractors • Service Providers • Total Coal  Code of Conduct Constitution	G Q Gething/L D Botha  L D Botha S Buthelezi J Diedericks P E Mojalefa L Kilian J Buckle Regional Chairman L Turvey  Z A Botha ZA Botha / President

Annual General Meeting 2015	JW Nel
Annual Strategic Session 2015	JW Nel
Council Meetings	President
MPAS Committee of Management	J W Nel/L Turvey/ G Q Gething

### ***WEBSITE***

The Association's website address is [www.sacea.org.za](http://www.sacea.org.za). The website is functional and periodically updated. The website gives members valuable information on Association as well as contact details for representatives on Council and other Committees.

### ***GOLF DAY***

The Association again hosted a highly successful golf day at Graceland on 2 November 2014. Council wished to place on record its thanks to Mr L D Botha for the organisation of the event and the sponsors who generously supported the occasion.

### ***RACE DAY***

A new fund raising event was held on 5 July 2014 at the Turffontein race course. The event was well supported by the Mining Houses and Sponsors and it turned into a fun filled day. The event is planned to be fixture on the SACEA calendar in future.

### ***JOINT SACEA/AMRE GENERAL MEETING***

The annual joint SACEA/AMRE General Meeting, hosted by AMRE, was held on 12 August 2014 at the Tweefontein Recreation Club, Tweefontein Mine. This is proving to be a popular interaction between the two Associations.

A technical visit was held to the new Tweefontein Coal Beneficiation Plant under construction followed by two presentations:

- \* Collison Avoidance System (UG) at Sasol Mining by L Delport
- \* Sub Stations by M De Kocker.

### ***JOINT GENERAL MEETING OF COAL ASSOCIATIONS***

A Joint General Meeting was held on 13 November 2014 at which the following presentations were made:

- \* Internal Leverage opportunities to counteract the impact of social realities in the workplace and still have a high performance culture by T Liebenberg
- \* SHEQSCAN: a mobile augmented reality solution to enhance inspections and audits to ensure Regulatory compliance by T Liebenberg
- \* To Map Dangerous areas of possible Roof Falls by D Du Plooy, Total Coal
- \* Sasol Mining PDS by S L Janse Van Vuuren
- \* Fire Preparedness by Inus Labuschagne, Sasol mining
- \* Sasol Executive Certificate in SHEQ by J Du Plessis

### ***TECHNICAL SYMPOSIUM***

A technical symposium, “Staying ahead of the game” was held on 19 June 2014. The following papers presented were:

Lowering Fleet TCO (P Dormehl – SEDNA)  
 Dragline Tub Replacement (C Child - Glencore)  
 New Technologies to Improve Safety in Opencast Mining (U Rothacher – SAFEMINE)  
 New Mining Legislation (J Raubenheimer – H Lovells)  
 VDS Implementation and caveats (H Zwart – Electrical Consultant)  
 Electrical Standards Overview (A Bezuidenhout - SASOL)  
 Coal Processing Development (China Coal Institute)  
 SMART Cap Demonstration (RVenter – Expert Mining Solutions)  
 Learning from Structural Failures (T Schmidt – Anglo Coal)  
 Leaky Feeder Communication (A Omrawo –Anglo Coal)  
 Overland Conveyor System Designed for Optimal Efficiency (M Marques – ELB Engineering Services)  
 Load out Bin Incident (J Marais -EXXARO)  
 Coal Processing Development (China Coal Institute)  
 Contamination, The Silent Thief (W Parsons – Senior Product Manager; Barloworld Equipment)

The Council wishes to thank Mr M E Thuesen for sustaining this initiative.

The next annual technical symposium will be held on 24 June 2015. This will be an ideal opportunity to showcase the technical knowledge of members of the Associations and will give the opportunity to share knowledge and network. ECSA continuing professional development credits will be awarded.

### ***TECHNICAL VISITS***

During the year a number of Technical visits were undertaken by members, including:

- \* Grootegeluk Mine Beneficiation Plant and Medupi Expansion Project
- \* Joy Global Africa Manufacturing Plant Visit and Presentations on new Technology
- \* Barloworld Remanufacturing Centre
- \* Joy Smart Services Witbank.

### ***CONCLUSION***

In conclusion I wish to express my appreciation to all members for their continued support and invaluable input throughout the past year. To the Council for the arrangements made for the SACEA golf day and for the organisation made for the Technical symposium. To the various Chairmen of the regions and user committees. These events were very successful and a credit to the enthusiasm and passion of the Association.

To my wife, staff at Glencore Coal and the Association’s Secretary for their valuable assistance and guidance throughout the year and for the professional manner in which the affairs of the Association have been administered.

**GQ Gething**

**PRESIDENT**