



SOUTH AFRICAN COLLIERY ENGINEERS' ASSOCIATION

**ANNUAL REPORT OF THE COUNCIL
FOR THE YEAR ENDED 31 DECEMBER 2004**

COUNCIL 2004

President

H A Lamprecht
Anglo Coal Project Services

1st Vice-President

L D Botha
Sasol Mining

2nd Vice-President

J P Pearson
Anglo Coal Project Services

Immediate Past President

J C Coetzee
Isibonelo Colliery

Regional Chairmen

Gauteng/Mpumalanga/ Free State Region

D Sichamba
Xstrata Coal

Kwazulu Natal Region

E Trouw
Xstrata Coal
(Resigned)

Elected Members

Z A Botha
Sasol Mining

J B du Plessis
Xstrata Coal
(Resigned)

T J Ferguson
Ingwe Collieries Limited

D W Hattingh
Spitzkop Colliery
(Resigned)

S Y Kudoos
Eyesizwe
(Co-opted)

M J Lourens
Sasol Mining

P E Mojalefa
Greenside Colliery

C M Norden
Sasol Mining

R M Power
Khutala
(Co-opted)

D M J C Stols
Anglo Coal Regional Engineering Services

D N Wallace
ATCOM
(Resigned)

S W J van Wyk
Sasol Mining

H Zwart
Anglo Operations Limited

Secretary

Mr S J Orchardson
Mines Professional Associations' Secretariat

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 2004

Presented to members of the Association on the occasion of the Twenty Sixth Annual General Meeting held at Sasol Club, Secunda, on Thursday 24 February 2005 at 11:00.

RENEWAL 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 and Codes of Practice.

Your Council will meet in April 2005 to assess the progress and to ensure that the objectives are obtained.

As part of the process the Council issues a Newsletter after each Council meeting giving members some insight into Council affairs and updating members on the Association activities.

FINANCE

The financial statements appended to this report show that revenue for the year amounted to R201 782, made up of subscriptions received during the year from Full and Student members, interest received from investments with the Chamber of Mines' Cash Management Department, and the successful safety workshop and golf day. Expenditure amounted to R180 617. Accumulated funds at the beginning of the year totaled R199 397 and with the transfer of the current year's net surplus of R21 165 an amount of R220 562 will be carried forward to 2005.

As part of the Association's objectives a successful golf day was held in October 2004 and the funds generated are included in the current net surplus for 2004. The event also promoted fellowship amongst members. A safety workshop was held in October 2004 which also generated funds for the Association.

The accumulated funds have been used to fund the Association's initiative on the position of the certificated engineer, licensing and registration.

SUBSCRIPTIONS

In terms of the Powers vested in it by the Association's Constitution and Rules, Council has agreed to increase the annual subscriptions for the ensuing year for Full and Affiliate members to R565 (exclusive of VAT). The subscription for student members will be R165 (exclusive of VAT).

MEMBERSHIP

The membership of the Association as at 31 December 2004 was 170(170), made up of 143(145) Full members, 1 (0) Affiliate members, 15(17) Student Members, 10(4) Honorary Life members and 1(1) Honorary Associate member.

Membership certificates are issued to new Full members of the Association on a bi-annual basis.

MEETINGS

In addition to the monthly meetings of Council, Regular Regional Meetings were held during the year and feedback 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 Council meetings were held on a monthly basis.

During the year under review, Kwazulu Natal Regional meetings were combined with those of the Southern Region of the South African Colliery Managers' Association took place, to the benefit of both Associations.

The nine Council and six Regional Meetings were well supported during the year and the commitment by members to the Association is a positive sign for the future well being of the Association and its activities.

During the year the Association held a joint General Meeting with the Association of Mine Resident Engineers in August 2004. This was well supported and provided the opportunity to share experiences with members.

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

TECHNICAL VISITS

During the year members attended a technical visit to SAA Maintenance Facility and to BMW. These were fairly well attended by some members, however other members did miss an important opportunity to review their facilities.

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

MEETINGS OF PRESIDENTS AND VICE-PRESIDENTS

The Association was again well represented at the inter-Association meetings of Presidents and Vice-Presidents, held in June and November 2004.

This meeting continued to serve as a useful forum where matters of mutual interest and concern have been addressed, not only with other mining disciplines, but also with the President and senior representatives of the Chamber of Mines.

Matters discussed and reports received at these meetings included inter alia:

- The Administration of the Associations
- ECSA
- Mining Qualifications Authority

- Occupational Health and Safety Policy
- Regulations, Codes of Practice and Guidelines
- Industrial Relations Issues
- Licencing and Registration of Engineers
- Mandatory Appointment and Competency Based Training

SAFETY AND HEALTH

The Association and Council continue to place a high priority on safety improvements and the elimination of accidents.

Your Council extends its sincere congratulations to the Management and staff of the following mines for their safety achievements.

SAFETY

MINE SAFETY ACHIEVEMENTS

THOUSAND FATALITY FREE PRODUCTION SHIFTS

Eleven Thousand

Kriel Underground

Seven Thousand

South Witbank

Five Thousand

Forzando
Kriel Opencast
Leeuwpan
Matla No 1 Shaf
Matla No 2 Shaf
Tselentis Colliery

Four Thousand

Douglas
New Vaal Colliery
Welgedacht Exploration
Witcons

Three Thousand

Dorstfontein Colliery
Glisa Colliery
Middelburg Mining
Tavistock Colliery

Two Thousand

Arthur Taylor Colliery
Brandspruit Colliery

Durnacoal
New Denmark Colliery

One Thousand

ATCOM
Bank Colliery
Boschmans Colliery
Goedgevonden
Greenside Colliery
Kleinkopje Colliery
Landau Colliery
Ikhwezi
Waterpan Colliery
Spitzkop

MILLIONAIRES

Four Million Fatality Free Manshifts

Middelbult Main Shaft

Three Million Fatality Free Manshifts

Sigma Colliery

Two Million Fatality Free Manshifts

New Clydesdale Colliery

Two Million Fatality Free Shifts

Brandspruit Colliery
Grootegeluk
Khutala Colliery

Six Million LWDI Free Manhours

Sasol Mining

Two and a Half Million LTIF Manhours

Bank Colliery

Two Million LWDI Free Manhours

Bosjesspruit Colliery

One Million Fatality Free Manshifts

Bosjesspruit (Services)

One Million Fatality Free Manshifts

New Denmark Colliery

OTHER NOTEWORTHY ACHIEVEMENTS WERE

Twistdraai Colliery had achieved one million lost workday case free manhours

New Denmark Colliery had worked 330 days without a lost workday case

Sasol Mining Central Workshops had achieved 335 days without a lost workday case

Bank Colliery had achieved one year without a lost time injury

Leeuw Mining, Vaalkrantz, had achieved one year without a medical treatment case

DME SAFETY FLAG

Dorstfontein Colliery

Brandspruit Colliery

ANNUAL SAFETY SEMINAR

The second safety seminar with six presentations was held in October 2004 hosted by Sasol with 160 members attending. The safety seminar was planned to maintain the Industry's safety focus during the critical period running up to the end of the year. A CD was produced of the papers and distributed to participants.

2004 COLLIERY HEALTH AND SAFETY CAMPAIGN: "SHE IS MINE"...A NIGHT SHIFT!!!!

Your Association has once again been actively involved in the 2004 Colliery Safety and Health Campaign launch which took place on 11 March 2004 and remains fully committed to the Campaign's ideals for the promotion of safety and health in the Mining Industry.

SENTINEL MINING INDUSTRY RETIREMENT FUND

The Association has actively participated through the South African Colliery Managers' Association's Trustee on the Sentinel Mining Industry Retirement Fund.

MINERALS ACT AND REGULATIONS

MQA AND ECSA

Your Association continues to have a very active role in the MQA and ECSA. During the year the following progress was made:

- The two stage model for engineering practitioners was accepted by MQA and ECSA.
- The three source document relating to the level 5 to 8 qualification design, registration and licensing as an elective option were accepted by MQA.
- Unanimous agreement/support by the stakeholder groupings of the three categories of **"Engineering Work in the SA M&MS that will be reserved for persons registered with ECSA ("compulsory registration")** at an **Identification of Engineering Work** Workshop held on 14 June 2004 under the auspices of the **M&M SGB** and the **ENG 5-8 W/G**:
 - I. Engineering design and synthesis of materials, components, systems or processes – subject to the nature and type of design specified.
 - II. Education, Training and Development of learner practitioners who are registered with ECSA in terms of Section 18 (1) (b) of the Engineering Professionals Act, 2003, in one of the following categories:

- Candidate Engineer;
- Candidate Engineering Technologist;
- Candidate Engineering Technician, and
- Candidate Certificated Engineer.

III. Persons performing consultancy work for financial gain.

- A Task Team was established to determine the competency profile for the Mine Overseer/Middle Management qualification;
- Legal opinion was received relating to the interpretation of reference to “the public interest” in the Engineering Profession Act, 200 (Act No 46/200) and the Occupational Health and Safety Act, 1996 (Act No 29/1996 as amended)
- Referral was established to the ESGB of the concern relating to the future of the N4 to N6 Technical qualification(s) as a possible progression/articulation route to the certificated engineer/manager.
- Finalisation and submission of the following competency standards to SAQA:
 - **“Stage 1: 480 Credit National Degree: Engineering Technology at Level 7 on the NQF (B. Tech (Eng.)), for Engineering Technologists”,** and
 - **“Stage 1: 360 Credit National Diploma: Engineering Technology at Level 6 on the NQF (N. Dip (Eng.)), for Engineering Technicians”**
- Appropriate amendment of Version 3 of the Rules for the Recognition of Voluntary Association approved by the ECSA ExCo which would enable participating MPAs active in the SA M&MS to be recognized by ECSA as a Voluntary Association.
- Initiatives within the SGG: Certificated Engineers to review/finalise the Stage 2 competency profile and learning assumed to be in place (Stage 1 learning outcomes) for certificated engineers.

Your Association continues to encourage members to join ECSA, in this way it will be in a position to influence ECSA'S decision making process.

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

Your Association is represented on the Occupational, Health and Safety Policy Committee of the Chamber of Mines by Mr W Marais, with Mr M J Lourens from the South African Colliery Engineers' Association serving as his alternate.

This body is the main employer caucus for the Mining Regulations Advisory Committee and various issues related to occupational health and safety are tabled for comment, before mandates are passed on to Mining Regulations Advisory Committee members.

The main focus area of the committee has been:

1. Review the SIMRAC levy system:
A number of proposals and options have been tabled and investigated.
A final discussion will be taken during December 2004 as to a new levy system for 2005.
2. Drafting of Regulations:
A number of new regulations have been drafted, promulgated and old regulations repealed.
The main topic of discussion has been on the necessity of statutory appointments versus appointments based on risk assessments. (Statutory regulatory mechanisms versus outcome based regulations).

The DME (Chief Inspector) is of the view that certain minimum requirements must be stipulated in order to set basic standards.

A decision has to be taken to allow a shift towards setting some basic minimum standards versus the principles around which the MHSA was designed.

This has impacted on the drafting of some regulations, specifically those requiring engineering expertise.

The Association continued to provide technical input and advice on flameproofing, non flameproof underground vehicles, definition on hazardous areas and risk assessment..

OPENCAST, UNDERGROUND AND PLANT USERS SUB-COMMITTEES

The Opencast, Underground and Plant Users Sub-Committees' meetings were revamped in order to stimulate attendance during the year aimed at improving communication between different mines and mining houses. Meetings which did have some good attendance benefited from a good cross-pollination of ideas and solutions to problems on mines which proved beneficial to those concerned. However some meetings were cancelled during the year and attendance varied from meeting to meeting.

The Council again calls on members to support these sub- committees and encourage participation from shift bosses and foremen.

PAPERS AND TECHNICAL NOTES

Whilst it is noted that technical notes were presented during the year at Regional meetings, the call for the preparation and presentation of full technical papers has largely gone unheeded, and your Council would again urge that this matter receive urgent attention from members as these technical papers, besides being a valuable source for the dissemination of information, also serve as an educational tool for future mining engineers.

The following technical papers and presentations were made at the Association's General Meeting on 27 August 2004.

Risk Assessment for Working Under or Near Overhead Powerlines	H Zwart
Productivity Improvements at Greenside Colliery	P E Mojalefa
Water Consumption in Underground Section at New Denmark Colliery	J van Schalkwyk
Change and Technology in South Africa	A J Whibley (AMRE)
Sasol Gas Pipeline	G Duvenhage
Continuous Mining Machine for Hard Rock Platinum Reefs	K A Moxham (AMRE)
Annual Transformer Examinations	A J Whibley (AMRE)
Sasol AIDS Programme	Dr D Burger
Tyre Explosion at Matla Colliery	J Malan
The Use of Non Flameproof Vehicles in Health Hazardous Areas (an update)	P Venter
Noise Reduction on a CM Scrubber	R Smit

MERIT AWARDS

The standard and quality of technical papers presented during 2004 continue to be of high standard. The Editorial Committee agreed that the paper by Mr H Zwart entitled “Risk Assessment for Working Under or Near Overhead Powerlines” was of sufficiently high standard to warrant the awarding of the Association’s gold medal.

Certificates of Merit were awarded to

Risk Assessment for Working Under or Near Overhead Powerlines	H Zwart
Productivity Improvements at Greenside Colliery	P E Mojalela
Water Consumption in Underground Section at New Denmark Colliery	J van Schalkwyk
Change and Technology in South Africa	A J Whibley (AMRE)
Sasol Gas Pipeline	G Duvenhage
Continuous Mining Machine for Hard Rock Platinum Reef	K A Moxham (AMRE)
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AWARDS SCHEME

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

The awards for 2004 were awarded to

Best Certificated Engineer	- J J Uys
Junior Engineer	- No award

The best apprentice award for 2004 at the Colliery Training College was awarded to Mr P P Lee at a function in May 2004.

PRESIDENTIAL FUNCTION

The 2004 combined General Meeting and Annual Presidential Function was held at the Royal Swazi Sun Hotel, Swaziland 27 August 2004 – 29 August 2004. The function was well attended by 71 members and provided an opportunity for members to network and share information.

The successful Presidential function culminated with the traditional Black Tie banquet.

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 know, in a most professional manner on various committees.

1 <u>Imp Improve the SHE Performance in Mines</u>	M J Lourens
Occupational Health and Safety Policy Committee (OH&SPC)	M J Lourens
Coalsafe	Z A Botha
2 <u>Membership Involvement and Brand Experience</u>	L D Botha
Editorial/Website	D M J C Stols
Awards Committee	Z A Botha/S W J van Wyk/J Coetzee
Regional Representation and Membership	
* North	D Sichamba/L D Botha
* South	TBA
Opencast	G Gething (to be confirmed) (Chairman)/ D Stols
Plant Users	S van Wyk (Chairman)/F Y Kudoos
Underground Users	P E Mojalefa (Chairman)/J P Pearson
3 <u>Appointment of Suitably Qualified Engineer – Mandatory</u>	T J Ferguson/ C Norden
ESGB	T J Ferguson
MNSGB	T J Ferguson
Level 5-8 Working Group	C Norden
3	Various Group representatives
Technical Reference Groups	Representation would be called for
4 <u>Engineering Qualification</u>	J P Pearson

CTC Management	D Sichamba
MQA – Learnerships	J P Pearson/ T J Ferguson
MQA Unit Standards	J P Pearson/ T J Ferguson
MQA ETQA	T J Ferguson
SQGS – INGQOKELELA	J P Pearson
ECSA – Certificated Engineers Accreditation (CERTAC)	H A Lamprecht
Professional Certificated Engineers Registration	H A Lamprecht/ T J Ferguson
5 <u>Technical Professionalism</u>	H Zwart
RAC Expert Panel	D M J C Stols
S A Flameproof Association (SAFA)	M J Lourens H Zwart
SANS – 868 Part 1	M J Lourens H Zwart
SANS 10108	H Zwart
SANS 1438	H Zwart
SANS 1489	H Zwart
CM&EE	President
JOY Liaison	P E Mojalefa
Chamber/Presidents/Vice-Presidents	President/ First Vice-President
SACMA	President
6 SACEA Finances	
Budgetary and Finance	D M J C Stols
<u>MINING HOUSE CO-ORDINATORS</u>	
Sasol	Z A Botha/C Norden
Ingwe	T J Ferguson
Xstrata	D Sichamba
Anglo Coal	J C Coetzee
Eyesizwe	F Y Kudoos
Kumba	H A Lamprecht
Total and Other Smaller Mines	H A Lamprecht

ASSOCIATION OF MINE RESIDENT ENGINEERS

During the year the Council has developed greater co-operation and networking with the Association of Resident Engineers. The joint meeting held in August 2004 was a great success and excellent papers were presented.

Three technical visits took place to the Sasol Plant, Sasol Beneficiation Plant and Syferfontein Open Cast Mine and four papers were presented. In addition Mr A Gumbie made a short report on a recent SIMRAC project "Causes of Transport and Trammig Accidents Associated with Trackless Mobile Machines".

In the meantime both Associations have benefited from a shared view on the licence to practice and registration of engineers.

WEBSITE

The Association's website is operational and updated regularly. The website gives members valuable information on Association's activities as well as contact details for representatives on Council and other Committees. The address is <http://www.sacea.org.za>

It is proposed that the website be transferred to the Chamber of Mines during 2005.

CONCLUSION

In conclusion Council wishes to express its appreciation to all members for their continued support and invaluable input throughout the past year. To Mr L D Botha and his team for the arrangements made for the SACEA golf day and for the organisation made for the safety seminar. Both these events were very successful and a credit to Mr Botha's leadership, enthusiasm and passion for the Association. To the Secretary and his staff for their valuable assistance and guidance throughout the year and for the professional manner in which the affairs of the Association have been administered.

**H A LAMPRECHT
PRESIDENT**