



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

COUNCIL 2004

President

A Rudolph
Rustenburg Platinum Limited

Vice-President

M P O'Hare
Great Nologwa Gold Mine

Immediate Past-President

P W Steenkamp
Harmony Limited

Elected Members of Council

G R Baldwin
Messina Platinum Mine
(From September 2004)

S Bessit
Impala Platinum Limited

N A Herrick
Kloof Mine

T S O'Connor
Rustenburg Platinum Limited
(Resigned)

L Rauch
JIC Limited

C T Smith
Harmony Limited

R G Snowgrass
Driefontein Consolidated

D J D Stander
Lebowa Platinum

C J Sutherland
Beatrix Mine

P R S van Dorssen
Rustenburg Platinum Limited

W W van Wyk
Eastern Chrome Mine
(Resigned)

D Vermaak
Harmony Limited

J C Viljoen
Mponeng Mine

Secretary

S J Orchardson
Mines Professional Associations' Secretariat

REPORT OF THE COUNCIL FOR THE YEAR ENDED
31 DECEMBER 2004

Presented to the members of the Association on the occasion of the One Hundred and Tenth Annual General Meeting held at the Johannesburg Country Club, on Friday 11 March 2005 at 10:30.

FINANCE

The financial statements appended to this report reflect the income and expenditure of the Association's funds administered by the Secretariat.

Revenue for the year amounted to R331 302 made up of subscriptions received from members, interest earned on monies deposited with the Chamber of Mines' Cash Management Department and revenue on sales of Association insignia. Expenditure amounted to R383 863. With the transfer of the current year's net loss of R52 561, an amount of R185 480 has been carried forward to the new financial year (2005).

SUBSCRIPTIONS

In terms of the powers vested in it by the Constitution and Rules of the Association, the Council has decided to increase the subscriptions for the ensuing year to R660 for Ordinary members, R540 for Associate members (excluding VAT), Student Members R185 (excluding VAT) and R70 for Retired members subscriptions (excluding VAT).

MEMBERSHIP

The total membership of the Association as at 31 December 2004, was 741(782) made up of 236(253) Ordinary members, 283(307) Associate members, 17(17) Honorary Life members, 38(39) Honorary Associate members, 108(113) Retired members, and 59 (53) Students.

This reflects a decline in membership of 41.

SAFETY AND ACCIDENT PREVENTION

SAFETY AND HEALTH

In keeping with the adopted policy that “SAFETY AND HEALTH MATTERS”, should remain a high priority, this item continued to be taken as the first item of the agenda at Council, General and District meetings with resultant fruitful discussions and stimulating interchange of ideas on safety and Health.

In addition the final General Meeting of the year was dedicated to safety presentations.

SAFETY

Your council wishes to place on record its congratulations to the following mines, their respective managements and staff on their safety achievements.

5 Million Fatality Free Shifts

Impala Platinum No 4 Shaft		
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3 Million Fatality Free Shifts

Impala Mine		13 March 2004
Impala Platinum (Group)		November 2004

2.5 Million Fatality Free Shifts

RPM – Union Section		20 May 2004
Brand No 3 Shaft		2 June 2004
Tshepong Mine		
Kopanang Mine		28 December 2005

2 Million Fatality Free Shifts

Impala No 1 Shaft		16 January 2004
Townsland Shaft, RPM		23 February 2004
Townsland Business Area		10 March 2004
Target Gold Mine		23 March 2004
Boschfontein Shaft (RPM West)		26 April 2004
JIC Mining		5 May 2004
Beatrix Mine 1,2,3,4 Shafts		3 June 2004
RPM – Union Section		5 July 2004
Joel Mine		
Impala Platinum No 6 Shaft		
Beatrix Mine 1, 2,3 Shafts (Underground Surface)		9 September 2004

1.5 Million Fatality Free Shifts

Merriespruit Mine		12 January 2004
Eastern Platinum Mine		27 May 2004
Beatrix Mine No 4 Shaft		May 2004

Murray and Roberts, Cementation Mining		
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1 Million Fatality Free Shifts

Cementation Mining, Skanska		5 February 2004
RPM – Amandelbult Section		8 February 2004
Eastern Platinum Mine		1 March 2004
RPM – Union Section		4 March 2004
RPM West, Paardekraal Section 2.2.0		29 March 2004
Beatrix No 1 Shaft		March 2004
President Steyn Mine		March 2004
RPM East Mine		14 April 2004
Great Nologwa Mine		31 March 2004
Impala No 11 Shaft		23 April 2004
RPM – West Mine		28 April 2004
Western Platinum		28 April 2004
Target Mine		April 2004
Beatrix 1,2,3 Shafts		
Impala Platinum		2 June 2004
Kopanang Mine		10 July 2004
RPM – East Mine – Brakspruit Shaft		23 July 2004
RPM – West Mine		
Murray and Roberts, Cementation Mining		
Western Chrome		
Driefontein Consolidated		
Eastern Platinum		September 2004
Beatrix North (Underground)		8 September 2004
Beatrix Mine – (Underground and Surface)		29 September 2004
South Deep		
Kloof Underground		
Impala Platinum (RPM Section) Underground		
Kloof Mine		8 October 2004
RPM West Mine		18 October 2004
Kloof Underground		25 October 2004
South Deep		27 October 2004

Bambanani Mine		
Unisel		
RPM Union Section (Declines)		7 November 2004
RPM Amandelbult West		15 December 2004
DRD (North West)		15 December 2004

750 000 Fatality Free Shifts

Unisel Gold Mine		
Bambanani Mine		8 July 2004

500 000 Fatality Free Shifts

Kloof Main Shaft		15 January 2004
Bambanani Mine		
Mponeng Mine		21 January 2004
Grootvlei Mine		January 2004
Driefontein Gold Mine		24 April 2004
Driefontein Gold Mine		11 June 2004
Great Nologwa		9 July 2004
Kloof No 8 Shaft		7 August 2004
Kloof No 7 Shaft		9 September 2004
Murray and Roberts, RUC		
Harmony Gold Mine		
Mponeng Mine		
Kloof Main Shaft		15 December 2004

3 000 Consecutive Fatal Free Shifts

Target Mine		2 February 2004
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2 000 Fatality Free Production Shifts

Dwarsrivier		March 2004
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STRATEGIC INITIATIVES

The Council continues with the strategic initiatives commenced in 2001 specifically covering, namely

- Membership
- Marketing
- Editorial

The objective is to improve the operational effectiveness of the Association.

Membership and Marketing was charged with promoting the Association amongst stakeholders and members and encouraging the participation of members at Association functions. A number of new Association memorabilia has been purchased during the year.

Certificate of Competency has co-ordinated interaction between the various stakeholders to address the decline in student members and the poor pass rate. In addition the issue of representativity was resolved.

Editorial successfully maintained the website for our Association viz. www.ammsa.org.za as well as ensured that technical notes and papers presented at our General Meetings were edited and placed on the website.

MEETINGS

In addition to the monthly Council meetings, regular, lively and informative District meetings were held in the Eastern, Central, Free State and Western Districts and feedback from these meetings, through the District representatives, once again rendered invaluable assistance and guidance to the workings of Council.

During the year under review General Meetings were hosted by Cullinan Diamond Mine, Rustenburg Platinum Mine and Mponeng Mine during the months of May, August and October 2004, respectively.

Despite difficulties experienced in the industry, the attendances achieved at the General meetings were satisfactory. The high calibre of the content of the technical papers and the excellence in presentation continued to meet the Association's high standards and augurs well for the future. These technical papers have been placed on the Association's website.

Your Council wishes to record its grateful thanks to the convenors of the General Meetings, and record a special thanks to the staff of the mines concerned and the Management and staff of the respective Recreation Clubs, without whose efforts and co-operation the meetings would have been less successful.

Representation on the Sentinel Mining Industry Retirement Fund

During the year your Association represented the Mines Professional Associations together with the South African Colliery Managers' Association on the Board of Trustees. Regular feedback sessions are given to Council and reports were made to members at General Meetings on the funds performance.

Mining Qualifications Authority and ECSA

A Steering Committee, comprising your Association, Resident Engineers, Colliery Managers and Colliery Engineers was established. This committee, which is represented on the various working groups continued to meaningfully influence the

outcome of these, as they will have an important impact on the future of the mining industry.

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.

The Steering Committee has formulated a position on the qualification design, licensing and model which was shared with members at district meetings in 2004.

Occupational Health and Safety Policy Committee

Your Association is represented on the Occupational, Health and Safety Policy Committee of the Chamber of Mines.

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.

MEETINGS OF ASSOCIATION PRESIDENTS AND VICE-PRESIDENTS

As has become practice over recent years, meetings of the Association Presidents and Vice-Presidents was held during June and November 2004.

These meetings served the purpose of creating an *esprit de corps* amongst the Associations and has provided an excellent forum where matters of concern and mutual interest to the eleven Professional Associations may be discussed at an Inter-Association level as well as with representatives of the Chamber of Mines, represented by the President of the Chamber of Mines and senior Chamber officials.

ANNUAL PRESIDENTIAL TECHNICAL VISIT

The 2004 Annual President's visit was undertaken to Tanzania on 20 to 24 October 2004.

The theme for the visit to Geita Gold Mine and Bulyanhula Gold Mine was "Modern Mining in Africa".

The technical visits included the Geita Opencast Mine, Exploration, Mining, Geita Plant, their community projects and local artisanal mining and visit to Bulyanhula Gold Mine including an underground visit.

Your Association wishes to place on record its grateful thanks to the members of the Association who assisted in putting the visit together and to the management and staff of the hosts for all their efforts and hospitality.

ASSOCIATION OF MINE MANAGERS' PRIZES

Association Gold Medal Award: 2003

The Association's gold medal for 2003 was presented to Mr N Fernandes for his Technical Paper "*Ground Control Districts*".

Association Silver Medal Award: 2003

An Association silver medal for 2003 was awarded to P J Kolbe for his paper entitled “*South Deep Care Project*”.

Best Second Year Students: Mining Engineering

The Association’s prizes for the best second year students in Mining Engineering during 2004 were awarded to Mr D H Mokgofa, University of the Witwatersrand, and Mr S Solomon of the University of Pretoria and W J Nel of the Witwatersrand Technikon.

Mine Ventilation Society

The Association’s prize for the best paper presented before the Mine Ventilation Society during 2004, was awarded to Mr R Wilson for his paper entitled “*Surface Bulk Air Cooler Concepts Producing Ultra Cold Air and Utilising Thermal Storage*”.

President’s Award for Meritorious Service

The President’s award for meritorious serve for 2004 was awarded to Mr D Smith, Past President and Honorary Life Member at the Annual General Meeting on 12 March 2004.

TECHNICAL PAPERS AND DISCUSSIONS

The following papers were presented for discussion at the General Meetings during the year.

*The Development of Hydro Power at Beatrix No 3
Shaft*

D H Thompson

<i>Large Diameter Vertical Raise Drilling and Shaft Boring Techniques as an Alternative to Conventional Vertical Shaft Sinking Depth</i>	P H Ferreira
<i>DME Safety Statistics for 2003</i>	K Hewitson (DME)
<i>Review of the In-Stope Pillar Cutting Support System at Merriespruit Shaft</i>	J Lucas
<i>Productivity Improvements in Tunnel Development, Using Drill Rigs and Shocktube Initiation System at Bafokeng Rasimone Platinum Mine</i>	M Stander
<i>Sustainable Knowledge Management – A Risk Based Approach</i>	C Smith
<i>SHE First.....Always</i>	D J O Standish-White (Goedehoop Colliery)
<i>The Journey of Achieving Five Million Fatality Free Shifts at Impala Platinum No 4 Shaft</i>	M Wenhold
<i>Unleashing the Human Potential – The New Denmark Story</i>	B Magara (New Denmark Colliery)
<i>Safety is a State of Mind</i>	D Spies

COUNCIL AND OUTSIDE COMMITTEES

The Standing Committee of the Association was re-constituted as follows:

Committees of Council and Outside Committees

The Association has continued to be represented on numerous Chamber of Mines and other Committees/Working Groups with distinction and has during the year also maintained its representation on the Education Advisory Committee (EAC), the Registrations Committee of the Engineering Council of South Africa and has, in addition, continued to play a significant role on the Commission of Examiners for the Mine Managers' Certificate of Competency.

	<i>Representative</i>	<i>Alternate</i>
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<u>STANDING COMMITTEE</u>		
President	A Rudolph	
Vice-President	M P O'Hare	
Central District	P R S van Dorssen	T S O'Connor
Eastern District	D J D Stander	G R Baldwin

Free State District Western District	C J Sutherland R Snowgrass	C T Smith N A Herrick
<u>SUB-COMMITTEES OF COUNCIL</u>		
Honorary Treasurer	President	Vice-President
<u>AMM INITIATIVES</u>		
Membership/Marketing/ Awards	D Vermaak	C T Smith
Certificate of Competency <i>Mine Managers Certificate</i>	M P O'Hare	J L Viljoen
Editorial Committee <i>Technical Communication</i>	P R S van Dorssen (Chairman) T S O'Connor	D Vermaak S Bessit
Retirement Fund (SMIRF)	D Smith (MPAS)	A C Naude
<u>MINES RESCUE SERVICES</u> <i>(including Gas Monitoring and Analysis)</i>	J L Viljoen R Snowgrass	N A Herrick
<u>EXAMINATIONS SUB- COMMITTEE</u>		
Training Officers	L de Klerk	R Snowgrass
Rock Mechanics	P M Coetzer	
Environmental Cont.	P Hunter	
MPAs Steering Committee <i>(MQA/ECSA Qualifications)</i>	T S O'Connor L Rauch	

<u>COMMISSION OF EXAMINERS</u> - Management - Mining	J L Viljoen D Stander	(SACMA) S Bessit
- Mining Technical Services - Geology	A S MacFarlane	L Zindi Mrs J Marland-Mauve
<u>TECHNIKON MODERATORS</u> - Management - Mining - Mining Technical Services	J L Viljoen J L Viljoen A S MacFarlane	
ECSA COUNCIL <u>ECSA</u> - Registration Committee <u>OCCUPATIONAL HEALTH AND POLICY COMMITTEE (OH&SPC)</u> <u>MISCELLANEOUS COMMITTEES</u> Self-Contained Self-Rescuers SIMPROSS SAIMM (Observer)	G C Butler L A Jagger/D Vermaak N A Herrick W Van Wyk D Vermaak N A Herrick	 R G Snowgrass D Stander CT Smith

ANNUAL BANQUET

The Association held its first Banquet at Caesars, Gauteng on 19 June 2004. 550 members, guests and their partners attended the black tie dinner.

CONCLUSION

Finally, the Council wishes to express its appreciation to all members of the Association of Mines Managers of South Africa for their support and attendance at various meetings.

I would also to extend my gratitude to fellow Council members and to Association Members for all their support during my terms of office as President of the Association.

Your Council wishes to record its sincere appreciation of the services rendered to the Association by the Secretary and his staff during the year as well as the support given by the Chamber of Mines and the Mining Groups.

**A RUDOLPH
PRESIDENT**

AREP2004/AMM/GJW