

Council for 2005/2006

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W.H. van Niekerk

President-elect

R.P.H. Willis

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R.G.B. Pickering

Junior

A.M. Garbers-Craig

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Honorary Treasurer

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J. Barton*****

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M. Dworzanowski*

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M. Handley*****

M.M. Valenta***

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T. van den Berg****

P.J. Knottenbelt**

J.N. van der Merwe

G.V.R. Landman

D.J. van Niekerk

N.C. Machingawuta

H.G. Waldeck

J. Mothomogolo*

R.P.H. Willis

A.F. Mulaba-Bafubiandi**

*Co-opted members

**Representing Non-Corporate Members

***Observer (MMA)

****Observer (AMMSA)

*****Observer (IMSSA)

*****Observer (SACPS)

*****Observer (GSSA)

*****Observer (SANIRE)

Branch Chairmen

Johannesburg Branch

E.U.H. Sachse

Free State Branch

C.P. de Villiers

Pretoria Branch

H. Möller

Western Cape Branch

P. van der Plas

Bushveld Branch

C.A.F. Sweet

Zululand Branch

I.J. Walton

Mpumalanga Branch

M.R. Mohring

Zambia Branch

W. Manda

Past-Presidents serving on Council

N.A. Barcza

R.P. Mohring

R.D. Beck

S.J. Ramokgopa

A.N. Brown

M.H. Rogers

L.A. Cramer

D.A.J. Ross-Watt

J.R. Dixon

T.R. Stacey

H.E. James

O.K.H. Steffen

Key objectives of the Institute

To initiate and give effect to the means whereby the requirement for technology and scientific knowledge of the minerals and metals section of the South African economy is satisfied; and to represent and promote the interests of its members.

Arrangement of this Report

In accordance with the current management policy, this report on the activities of the Institute is presented under eight main headings:

1. Interests of Individual Members
2. Technical Meetings
3. Publications
4. Regional Development
5. Engineering Science and Technology in South Africa
6. State Liaison
7. International Liaison
8. Management and Administration.

1. Interests of Individual Members

Portfolio Holder: W.H. van Niekerk

Key Performance Areas

In the interests of individual members, the SAIMM

- *undertakes to assess the qualifications, experience, and the level of responsibility of applicants for membership, and allocates a membership certificate in an appropriate grade as a means of granting appropriate professional and technical status to individuals who practise in the minerals and metals sector*

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- ▶ *arranges conferences, colloquia, schools and seminars where technical information on mining, metallurgical and allied issues is disseminated. Both members and the general industry benefit from these interchanges*
- ▶ *undertakes to prepare and publish career guidance brochures, bursary handbooks, audiovisual and video programmes, optional school curricula material, etc., and participates in the activities of the RADMASTE Centre to stimulate scholars and students to select careers in the minerals and metals sector of the South African economy*
- ▶ *guards the professional interests of engineers, scientists, technologists, and technicians by providing a corporate voice and by representing their interests on bodies such as the Engineering Council of South Africa*
- ▶ *through representation on ECSA, assists with the evaluation of curricula at universities and technikons with a view to improving the level of education of graduates and diplomates and ensures that the courses are relevant to the needs of the minerals and metals sector*
- ▶ *makes awards, in the form of medals, prizes and certificates, in order to recognize technical excellence, to stimulate a sense of pride in high standards of performance, and to encourage individuals involved in the minerals and metals sector to share the results of their work through publication. The following are eligible for SAIMM awards: individuals for the very highest achievements in the South African mining and metallurgical industry, SAIMM members and non-members for papers of the highest standard published in the Journal or other SAIMM publications, and students from universities and technikons for exceptional academic performance*
- ▶ *arranges technical excursions, banquets, and other social events to create opportunities for professional association and fellowship for its members.*

1.1 Membership Committee

R.P.H. Willis, Chairman

N.A. Barcza	M.H. Rogers
R.D. Beck	S.J. Ramokgopa
A.N. Brown	D.A.J. Ross-Watt
L.A. Cramer	G.L. Smith
J.A. Cruise	T.R. Stacey
J.R. Dixon	O.K.H. Steffen
F.M.G. Egerton	J.N. van der Merwe
H.E. James	D.J. van Niekerk
N.C. Machingawuta	W.H. van Niekerk
R.P. Mohring	H.G. Waldeck
R.G.B. Pickering	

Membership

Members of the SAIMM comprise engineers, metallurgists, chemists, physicists, geologists, certificated managers, and technikon diplomates, all of whom have an interest in the fields of mining, extractive metallurgy, metals technology, and other related areas.

Corporate members are classified as follows

HONORARY LIFE FELLOW: must have rendered services to the Institute, science, or industry.

FELLOW: (Minimum age 35 years.) A person eligible for election or transfer into the class of Fellow shall be any minerals professional employed for a minimum of five years in a senior technical position of responsibility provided that the candidate has had ten years' combined technical tertiary education and appropriate experience, or experience only.

MEMBER: (Minimum age 25 years.) A person eligible for election or transfer into the class of Member shall be employed for a minimum of two years in a technical position of responsibility provided that the candidate has had five years' combined technical tertiary education and appropriate experience, or experience only.

Non-corporate members are classified as follows

COMPANY AFFILIATE: companies associated with mining or metallurgical industries are eligible for membership.

HONORARY FELLOW: persons of distinction in public service, science, or the arts.

ASSOCIATE: a person eligible for election or transfer into the class of Associate shall be any person with a recognized industry qualification, within the disciplines of mining, extractive metallurgy, or metals technology.

STUDENT: a full-time student or postgraduate student at a university, technikon, or any other educational institution approved by Council, who is being trained to occupy a technical position in the mining or metallurgical industry or associated organizations.

Membership Roll

Members of the Institute are divided into CORPORATE and NON-CORPORATE members, all of whom are entitled to attend and speak at meetings. Only Corporate Members are entitled to vote. All applications for membership or transfer require one proposer and one seconder.

RESIGNATION: A member may resign from the Institute by sending his or her written resignation to the Secretary together with payment of any monies due.

RETIRED MEMBERSHIP: A Fellow or Member who has *bona fide* retired from active business may retain membership at a reduced subscription providing he or she has been a member for 20 years. Members can contact the Secretary to establish the number of years of service prior to submitting a written request for Retired Membership to the Institute.

STUDENTS: A candidate may remain a Student member only while he or she is being educated or trained in a manner approved by the Council.

When he or she no longer qualifies as a Student member, he or she shall automatically be transferred to the category of Associate. Students are reminded to forward a copy of their degree certificates to the Institute on graduation.

A candidate may not remain a Student member after the end of the Institute's financial year in which he or she attains the age of twenty-eight years, unless the Institute receives written confirmation from the university or technikon that the Student member is still a full-time student.

Table 1

Summary of new applications and membership movements for 2005/2006 and comparison of membership grades and total membership 2005/2006

Membership grade	Members July 2005	New members	Transfers in	Transfers out	Reinstatements	Resignations	Deceased	Struck-off	Net gain/(loss)	Members June 2006
Honorary Life Fellow	41	1	1	0	0	0	1	0	1	42
Honorary Fellow	4	0	0	0	0	0	0	0	0	4
Life Fellow	14	0	0	0	0	0	0	0	0	14
Fellow	386	15	13	7	1	6	1	7	8	394
Retired Fellow	147	0	6	0	0	2	6	0	-2	145
Life Member	1	0	0	0	0	0	0	0	0	1
Member	646	65	10	17	1	8	1	25	25	671
Retired Member	87	0	7	0	0	1	1	1	4	91
Associate	687	31	23	13	6	19	0	40	-13	674
Retired Associate	15	0	0	0	0	0	1	0	-1	14
Student	422	198	1	24	0	3	1	0	171	593
Company Affiliate	159	3	0	0	10	1	0	2	0	159
Total	2609	313	61	61	8	40	12	75	2803	194

CHANGE OF DETAILS: It is essential that members contact the Institute without delay about change in designation, change in employer, payment address or change in postal address. Without this the communication link to members is broken. Also, members must ensure that, where subscriptions are paid by a company, the Institute has on record the correct payment address.

Benefits of Membership

Individuals derive various benefits from membership of the Institute:

- contact with fellow members
- special reduced fees when attending congresses, symposia, colloquia, conferences, schools, discussion groups, etc.
- notices of events promoting technology transfer, which also satisfy the need for continuing education
- a monthly *Journal* with a balanced content and of high technical standard, which serves as a communication medium to keep members informed on matters relating to their professional interests
- participation in technical excursions, banquets, and other social events, which create further opportunities for professional association and fellowship
- tax deduction of membership fees in most cases
- reduced registration fees for professional registration through the Engineering Council of South Africa.

Companies that become Members of the Institute

- benefit from the opportunities to exchange knowledge, particularly about new developments and research
- receive the Institute's publications of international conferences held in South Africa, as well as monographs on a variety of subjects and regular copies of the monthly *Journal*
- are entitled to send two non-member employees to mining and metallurgical schools, colloquia, congresses, visits, and excursions at member rates

- receive newsletters and notices about all Institute activities
- benefit from the fact that Company Affiliateship is tax-deductible
- have ample opportunity to send delegates to attend technical meetings to obtain information and to benefit from the experience of others.

1.2 Career Guidance and Education

G.V.R. Landman, Chairman

M. Adams	A. Mulaba
P. Barnes	L. Petrick
M. Booth	M.H. Rakale
S. Carthy	M.K.C. Roberts
F.M.G. Egerton	B. Tait
P.J. Knottenbelt	P. van der Plas

During 2005/6 the committee accepted the challenge to create a working mentoring system. This was identified as an SAIMM strategic initiative. The year has been very active in the focus on mentoring. Workshops have been held and, following diverse opinions, the system has been approved by Council and made live on the website in July 2006. The challenge for 2006/2007 is to establish actual mentor/mentee relationships and activate the system as a routine service to members of the SAIMM.

In order to facilitate the development of the mentoring programme and the other activities, the Career Guidance committee was expanded. The committee now includes industry representatives and, in particular, younger members to allow the needs of future members to be met.

SAIMM also participated in a career guidance expo and has made progress on developing new advertising pamphlets. A new career poster was developed and sponsorships from industry invited.

As chairperson of the Career Guidance Committee, I am glad to report real achievement during the year in progressing the SAIMM mentoring project. This would not have been possible

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without the dedication of all the committee members. In particular, the website was created by Louise Petrick, and Paul van der Plas. For the workshops and content development, Peter Knottenbelt and Peter Barnes need special reference.

1.3 Promotion of the SAIMM

Portfolio holder: W.H. van Niekerk

The Institute is still going from strength to strength—112 years after its inception in 1894. Membership is showing steady growth and is around 2 800.

The primary objective of the Institute is to attend to the needs of all its members. Their needs are ever changing due to the changing face of the metals and minerals industry, increasing diversity among members and the desperate need for trained human resources. The Institute responded to these challenges through the development and execution of a strategic plan. The main thrusts of the strategic plan are discussed below.

- First and foremost, a comprehensive survey was conducted to determine the needs of members and members-to-be. The results of the survey will be used to determine the strategic direction of the SAIMM over the next few years. Main findings of this survey include:
 - The SAIMM should become more visible, by developing a comprehensive marketing strategy
 - The SAIMM mentoring programme should be expanded
 - The benefits of belonging to the SAIMM should be enhanced, and emphasized, especially to retain student members
 - Making information on the SAIMM more readily available and accessible.
- An important pillar of the strategy is to promote the SAIMM. One of the drives here is to establish branches in neighbouring countries. In 2005 a branch was established in Zambia. New branches in Namibia and Botswana will be launched soon and work has progressed well in establishing a branch in Zimbabwe. Other initiatives to promote the Institute include a new revamped website, a promotional article in *Mining Weekly*, deliberate communication with industry stakeholders such as the Chamber of Mines, heads of companies, etc and improved communication with members. A promotional/marketing plan will be drafted after careful perusal of the survey results.
- Training and development of people is an important role that the Institute plays. Our normal activities include arranging conferences and colloquia and supporting university departments with book grants and bursaries through the scholarship trust fund to postgraduate students. In addition, as of 1 January 2006 the Institute accredits symposia and seminars on behalf of ECSA, as well as managing continual professional development (CPD) credits on behalf of members. One of the more ambitious schemes launched this year is the SAIMM mentorship scheme where new graduates are brought into contact with experienced members of the industry in order to assist them with career guidance and personal development needs.

- A detailed study was performed to determine the optimum format, venue, topic, etc of conferences to ensure maximum value for members. The outcomes of this study are currently being incorporated by the TPCs for Mining and Metallurgy in their planning of future events
- In summary, the Institute is adjusting concurrently with industry and the needs of members and strives to be around for at least another 112 years.

1.4 Awards and Adjudication Committees

Awards and Adjudication Committee—Mining

M.H. Rogers, Chairman

R.D. Beck	R.G.B. Pickering
J.R. Dixon	G.L. Smith
A.A.B. Douglas	T.R. Stacey
F.M.G. Egerton	R.P.H. Willis

Awards and Adjudication Committee—Metallurgy

L.A. Cramer, Chairman

R.D. Beck	N.C. Machingawuta
M. Dworzanowski	R.L. Paul*
A.M. Garbers-Craig	F.W. Petersen*
J.M.A. Geldenhuis	W.H. van Niekerk

*Co-opted members

Honorary Life Fellows

Honorary Life Fellowship is awarded by Council to Corporate Members of the Institute who have rendered outstanding service to the industry or to the Institute over a considerable period. Council has conferred Honorary Life Fellowship on the following persons:

Pre-

1923	A. Aiken	S.H. Pearce
	A.F. Crosse	J.P. Williams
	J. Littleton	
1923	J. Moir	
1930	H.A. White	
1931	P. Cazalet	J.A. Wilkenson
	A. Whitby	
1932	J.R. Thurlow	
1934	Wm. Cullen	A. McArthur Johnston
	W.R. Feldtmann	G.H. Stanley
	E.H. Johnson	
1938	G. Melvill	F.W. Watson
	S. Newton	
1941	J. Henderson	
1943	Sir R.N. Kotzé	
1946	J. van N. Door	T.K. Prentice
	C.J. Gray	R.S.G. Stokes
	Jas Gray	S.J. Truscott
	J.V. Muller	G.A. Watermeyer
	John Orr	J.A. Woodburn
1951	W.W. Mein	
1953	P.E. Hall	B. St. J. van der Riet
1954	C. Biccard Jeppe	
1955	P.N. Lategan	
1958	R.A.H. Flugge-de-Smidt	

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1960	G. Hildick-Smith A.J. Orenstein H.J. van Eck	A.J. Walton F. Wartenweiler
1961	C.S. McLean	
1966	F.G. Hill	F. Meyer
1970	H.E. Cross R.C.J. Goode	D.M. Jamieson
1974	R.J. Adamson W. Bleloch H. Britten	C.J. Irving J.F. Reid
1975	M. Barcza J. de V. Lambrechts	J.T. McIntyre
1976	D.G. Maxwell	A.R.O. Williams
1978	J.K.E. Douglas D.D. Howat	V.C. Robinson
1979	J.P. Hugo	P.W.J. van Rensburg
1980	Hon. S.P. Botha Hon. P.G.J. Koornhof A. Louw	R.P. Plewman R.E. Robinson
1982	M.G. Atmore	
1983	C.S. MacPhail	
1985	P.R. Jochens D.G. Malan	M.D.G. Salamon
1986	D.G. Krige	G.Y. Nisbet
1987	A.N. Brown	
1988	J.D. Austin R.P. King	D.A. Viljoen
1989	P.A. von Wielligh	
1990	S. Budavari L.W.P. van den Bosch	G.T. van Rooyen
1991	H. Wagner	
1992	J. Lurie	
1993	No award	
1994	B.C. Alberts	
1995	R.D. Beck P.R. Janisch	H.E. James
1996	R.J. Dippenaar J.S. Freer H.G. Mosenthal	
1997	J.A. Cruise	
1998	D.A.J. Ross-Watt	
1999	No award	
2000	N.A. Barcza R.P. Mohring	J.R. Dixon
2001	M.H. Rogers	D.J. van Niekerk
2002	L.A. Cramer C.T. O'Connor	R.F. Sandenbergh J.H. Selby
2003	A.A.B. Douglas	P.J. Knottenbelt
2004	No award	
2005	F.A. Camisani-Calzolari	

In 2006 this award is to be conferred on T.R. Stacey for his outstanding contribution to the Institute over a number of years.

Brigadier Stokes Memorial Award

The Brigadier Stokes Memorial Award, which takes the form of a platinum medal, is awarded to an individual for the very highest achievement in the South African mining and metallurgical industry, and is not necessarily based on technical expertise.

The Award was established in 1980, and the previous recipients were as follows:

1980	H.F. Oppenheimer
1981	W. Bleloch
1982	F.G. Hill
1983	A.W. Whillier (posthumously)
1984	D.G. Krige
1985	R.E. Robinson
1986	M.D.G. Salamon
1987	T.F. Muller
1988	W.J. (Wim) de Villiers
1989	R.A. Plumbridge
1990	W.G. Boustred
1991	P. du P. Kruger
1992	E. Pavitt
1993	D.A. Pretorius
1994	H. Wagner
1995	O.K.H. Steffen
1996	B.E. Hersov
1997	D.W. Horsfall (posthumously)
1998	B.P. Gilbertson
1999	L. Boyd
2000	A.H. Mokken
2001	T.L. Gibbs
2002	J. Ogilvie Thompson
2003	P.V. Cox
2004	H.J. Smith
2005	P. Motsepe

This year the award is being made to G.T. van Rooyen for his outstanding contribution to the industry over many years.

SAIMM 50 Year Club

The Institute established the 50 Year Club in 1989 to recognize the faithful and loyal support of its senior members with 50 years' unbroken membership. They become members of the club on the 50th anniversary of their joining the Institute. Their names are published each year in the Annual Report and they are presented with a gold lapel badge on a suitable occasion. There are no fees, and the only obligation of members is to wear their lapel badges with pride and affection at all meetings of the Institute. The present members of the club are as follows:

<i>Year to June</i>	<i>Member</i>	
1924	E.C. Polkinghorne*	
1926	R.M. Martin*	
1927	W. Allen*	
1930	E.T. Dunstan* (posthumously) P.L. Ward*	
1931	F. Bowdler*	
1932	J.E. Laschinger*	
1933	F.D. Cartwright* C.H. Coxon* J. Levin D.D. McWilliam*	E.R.C. O'Connor* B.M. Roberts* A.A. von Maltitz* T. Waterman*
1934	A.C.M. Cornish-Bowden* H.E. Cross*	J.W.V. Mortleman* K. Rood*

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	E.F. Laschinger*	A. Siff*
	E. Margo	O. Weiss*
1935	O.B. Swallow*	
1936	O. Deane*	A.H. Mokken*
	T.L. Gibbs*	H.L. Monro*
	R.C.J. Goode*	R.M.F. Seawright*
	F.G. Hill*	A.C. Pigott*
	D.M. Jamieson*	J.S. van Zijl*
	D.J. Rogers*	L. Walter*
1937	W. Bleloch*	J.J. Klein*
	L.A. Bushell*	C.D. Storrar
	K.W. Findlay*	
1938	V.C. Barnes	C.A. McKechnie*
	E.T.S. Brown*	J.A. Nixon
	R.S. Cooke*	E. Popplewell
	J.K.E. Douglas	C.G. Sowry*
	A.L.A. Forder*	E.W. Thiel*
1939	G. Armstrong-Smith	R.S. Pearson
	D.E.R. Ayres	D.C.J. Squirrel*
	E.H.D. Carman	R.F.J. Teichmann*
	W.G.H. Jackson*	I.S. van Eyssen*
	T.A. Newman	S.J. Venning
1940	L.D.C. Bok*	G.D. Gettliffe*
	A.W.L. Brereton	G.G. Stanley
1941	A.H.H. Davison*	D. de V. Oxford*
	D.J. Forder	E. Pavitt
	A.R.C. Fowler*	A.C. Petersen*
	H.F.W. Ketelbey	E.R. Rudolph
	J.D. McNamara	P.W.J. van Rensburg*
	T.F. Muller*	
1942	R.E. Burnton*	O.L. Papendorf
	R.C. Espley-Jones	V.O. Steed
	N.M. Hayne*	J.E. van Leeuwen*
	R.T. Naudé	W.C. Walmsley*
1943	D.J. Molony*	R.P. Plewman
	J.D. McMorran	
1944	A.F. Dick	V.M. Reinecke*
	R.B. MacGillivray	A.S. Swartz
	L.J. Prince*	A.H. Taute
	J.F. Reid	P.B. Weehuizen
1945	J.L. Curtis*	K.E. Steele*
	E.T. Pinkney	
1946	W.I. Spence	
1947	G.H. Grange	J.D. Pollard
	W.B. Howe	V.C. Robinson*
	J. Marr-Levin	A.N. Shand*
	C.J. Parr*	G.R. Still
1948	D.F. Foster	J. Pope*
	M.H. Grusd	N.A. Stacey
	P.A. Laxen	J.A. Tyser
	G.Y. Nisbet	
1949	G.P. Bennett	J.P. Hugo
	J.F. Curtis*	D.A. Immelman
	O. Davel	
1950	D.F. Grieve	R.P. Plasket
	B.E. Hersov	V.C. Ward
	D.G. Maxwell	
1951	D.G. Krige	N.C. Pope

	B.H.L. Leach	W.T. Ruhmer
	M.J. Martinson	T. Zadkin*
	W.D. Ortlepp	
1952	A.N. Brown	E.P. Mortimer
	M.J. Deats	D.J. Murphy
	W. Lurie	H.J. Stucke
	N. Mertincevic	R.G. Williams
1953	B.G. Fordyce	G.D. Tainton
	G. Langton	J. Uys
	A.A. Sealey	N. Zolezzi
1954	R.C. Bertram	R.B.W. Wiggill
1955	R.A.O. Chelius	G.R. Parker
	S.P. Eliis	W.B. Parker
	C.T. Fenton	

* Deceased since becoming members of the club

Alec Wilson Memorial Award

The Alec Wilson Memorial award gets awarded for the best tunnelling paper by a South African worldwide or presented in South Africa. The award of R1000.00 is sponsored by GOBA (Pty) Ltd.

The 2004 prize goes to J.P.L. Morgan, J.L. van Niekerk and D. Cosijn for their paper entitled: 'Gautrain Tunnels: Surface vibration and ground-borne noise', published in the SAIMM publication: Tunnelling and Development in Southern Africa in 2003.

The 2005 prize goes to W.D. Ortlepp, A.H. Swart and P.N. Erasmus for their paper entitled: 'The performance of yielding tunnel support systems under dynamic loading', published in the Surface Support in Mining Conference Publication in Perth in 2004.

Gold Medals

L.R. Nelson, R. Sullivan, P. Jacobs, E. Munnik, P. Lewarne, E. Roos, M.J.N. Uys, M. de Vries, K. McKenna, N. Voerman, and B.O. Wasmund for their Transaction paper published in the October issue of the *Journal* entitled 'Application of a high-intensity cooling system to DC-arc furnace production of ferrocobalt at Chambishi'.

Student Prizes

Prizes were awarded to the following students and were presented at faculty prize-giving ceremonies held at the respective universities.

The prizewinners were as follows:

University of the Witwatersrand

Mining	T. Sebutsoe
Metallurgy	E. Rush

University of Pretoria

Mining	I. Shikongo
Metallurgy	S. Swanepoel
Student Dissertation	I. Shikongo

University of Johannesburg

Mining	R. Coetzee
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University of Cape Town

Chemical Engineering L. Bircumshaw

University of Stellenbosch

Process Engineering C. Dorfling

Cape Peninsula University of Technology

Chemical Engineering D.J. van Staden

The prizes for the universities of Cape Town and Stellenbosch, and the Cape Technikon are awarded at the Western Cape Branch Annual General Meeting.

1.5 SAIMM Scholarship Trust Fund

L.A. Cramer, Chairman

M.H. Rogers, Vice-Chairman

R.D. Beck

J.R. Dixon

R.P. Mohring

The Scholarship fund had a successful year in 2005 and the support that it has been able to give to some of the South African tertiary institutions has been greatly appreciated. The fund continues to support the University of Cape Town (Chemical Engineering—Minerals Processing option), Stellenbosch University (Chemical Engineering—Minerals Processing option), Pretoria University (Mining and Metallurgical Engineering Departments), Witwatersrand University (Metallurgy and Mining Departments) and the University of Johannesburg (Metallurgy and Mining Departments).

Many students who would otherwise have chosen a three-year career in a general science area have been encouraged to continue with their engineering career by the added finance that the fund has provided. SAIMM assistance to these students helps to build their loyalty to the SAIMM and will encourage their continued membership after graduation.

The Fund received generous donations of some R20 9469 in 2005, a small increase on last year's contributions. This has allowed the Fund to commit R300 000 to the various Institutions for the 2006 academic year. Although the trustees have again dipped into the Fund's reserve, they are hopeful of increasing the contributions again in 2006. A small reserve of funds is still being kept and will be carried into 2007.

The fund has many loyal contributors who have since its inception assisted with the achievement of its goals; we offer our most sincere thanks to these companies and individuals. However, many companies that are active in the Southern African mining and metals industry have not yet contributed and this is also true of many individuals who earn their livelihood from the industry. It is our sincere hope that these people will come to share our vision and goal and thus contribute during 2006 and into the future. This widened support base is being solicited during 2006 and every loyal member of the SAIMM should help to further the Trust's goals in some way. With everyone's help, the trustees will be able to continue or better the current level of support for first and second year students at our best mining and metallurgical engineering institutions.

1.6 SAIMM Gold Medal Awards

The South African Institute of Mining and Metallurgy were pleased to assume the administration of the Gold Medals and Scholarships in 2001, which had previously been done by the Chamber of Mines. All contributions are held in a separate fund within the SAIMM accounts.

A total of four awards is presented to the universities of Pretoria and the Witwatersrand for the best student in the Faculty of Engineering and the best student in the branches of mining or metallurgy, as determined by the universities. The award comprises a gold medal and a postgraduate scholarship to the value of R25 000.00.

These awards are made only possible by the generous contributions from major organizations in the industry. The SAIMM and the two universities are grateful for their generous support.

1.7 Banquet Committee

J.A. Cruise, Chairman

L.A. Cramer

A.A.B. Douglas

F.M.G. Egerton

R.P. Mohring

R.G.B. Pickering

M.H. Rogers

T.R. Stacey

W.H. van Niekerk

R.P.H. Willis

The SAIMM banquet is the social highlight of the Institute's calendar. Once again it was held in the Sandton Convention Centre in order to accommodate the over 1 000 guests. The nature of the banquet has over the years developed into a function where members can renew old acquaintances and are entertained. A hundred years ago the SAIMM banquet was a men-only affair at which the after-dinner speech was given by some luminary on a topic of important policy for the mining industry. In the main, the speeches were fairly dry and after a filling main course accompanied by a few glasses of wine, half the audience could be seen to be nodding off. Today the SAIMM banquet is a mixed-gender affair and the entertainment varies from year to year from items of South African interest, e.g. the palaeo-anthropological heritage of SA, the South African ballroom dancers who became world champions, a demonstration by the Lippizaner horses, etc. to the comical addresses of 'Wheel-barrow Patterson' on early mining and 'Gees van Gemeert' with advice on how to run SA mines.

This year, we were privileged to be addressed by 'Wally Bruce' (aka Bill Flynn), an 'Industrial Genderologist', who spoke on 'Transformation in the Mining Industry'. It dealt with the insidious takeover of the SA mining industry by the fairer sex. He demonstrated by tracing how this had been accomplished stealthily in other arenas throughout history, from the ancient Olympics through mediaeval times, through Joan of Arc, through buccaneers, through suffragettes, through the wearing of trousers, to the current influx of women into the previously men-only domain of mining, and how the male was now becoming an endangered species. The theme of the address was devised by your committee and written by Tim Plewman.

The banquet was thoroughly enjoyed by all who attended.

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2. Technical Meetings

Portfolio Holder: R.P.H. Willis

2.1 Technical Programme Committee—Mining

J.L. Porter, Chairman

A.M. Clegg	R.G.B. Pickering
J.A. Cruise	M.H. Rakale
A.A.B. Douglas***	B.C. Rip*
J. du Plessis	M. Seeger*
F.M.G. Egerton	G.L. Smith
P.H. Ferreira	T.R. Stacey
G.V.R. Landman	F.W. Taylor*
D. Limpitlaw*	J. Truter
J. Mothomogolo	H.G. Waldeck
J.C. Ngoma	J.N. Wallington*
K.C. Owen	R.P.H. Willis
R.C.D. Phillis*	

*Co-opted members

***Deceased

It is with deep regret that the TPC noted the passing of A.A.B. Douglas during the year. Alastair was a cornerstone of the TPC and guided new chairmen through the intricacies of event organization with the calm hand and piercing wit for which he was renowned. We miss him.

The past year has been a period of transition for the TPC. As a result of the strategic initiatives driven by the President, the Mining TPC conducted an assessment of how it should position itself and what targets to set for itself. One immediate consequence is that there is an effort to build up a 'pipeline' of well-recognized, internationally branded conferences that the industry and our membership can earn excellent value by supporting.

The TPC—Mining hosted seven events during the year under review. This is considerable fewer than in the past but

the focus has been on 'better' not 'more' as mentioned above. An International Seminar on Strategic vs. Tactical Planning Approaches in Mining is an excellent example of how intend to participate in rotating international events between geographies (the follow-on from this event will be held in Australia) and as usual the joint event with SARES; SANIRE 3rd Southern African Rock Engineering Symposium, was an outstanding success.

Two colloquia, Sustainable Development in the Life of Coal Mining in South Africa and Mining Environmental Managing in the Light of the New Minerals and Petroleum Development Act, attracted much interest from members. At the end of the year we introduced the Diamonds Source to Use Colloquium, which we intend to host on a regular basis, every second year, as part of our long-term planning.

2006 started with the Stability of Rock Slopes Conference, held in Cape Town and which attracted 163 attendees and considerable international participation.

The last event held was the Rise of the Machines Conference where many innovations relating to developments in the platinum sector were presented.

Overall event attendance of approximately 700 members and guests is very low relative to recent years. However, development of the programme of events that reflect the changing nature of the minerals industry, economic drivers and associated member interests, together with a focus on fewer, value-added events as part of the overall marketing strategy of the SAIMM is intended to turn this situation around. Current event planning now extends well into 2010.

The hard work and commitment of the committee members and the secretariat are acknowledged and highly appreciated. Particular note should be made of the commitment of the event organizing chairperson. The success of the TPC-Mining depends on this dedication and willingness to devote time to advancing the objectives of the SAIMM.

Schedule of Mining Technical Conferences, 2005/2006				
Type of Event	Date	Title	Convenor	Attendance
Colloquium	13 July 2005	Sustainable development in the life of coal mining in South Africa	J.C. Ngoma	61
Colloquium	21 July 2005	The future of mining environmental management in the context of the South African legislative developments	A.M. Clegg	60
Conference	12–14 September 2005	International Seminar on Strategic vs. Tactical Planning approaches in mining	T.R. Stacey	94
Symposium	11–13 October 2005	SARES 2005—Sanire 3rd South African Rock Engineering Symposium	D.F. Malan	130
Conference	26–27 October 2005	Diamonds Source to Use	G.L. Smith	102
Conference	14–16 March 2006	Rise of the machines—The State of the art in mining mechanization, automation, hydraulic transportation and communication	A.M. Clegg	101
Conference	3–6 April 2006	Stability of rock slopes in open pit mining and civil engineering situations	T.R. Stacey	163
Technical visit	30 June 2006	Durban Harbour Tunnel visit	J.A. Cruise	50
Breakfast	15 June 2006	SAMREC/SAMVAL breakfast	J.R. Dixon	136

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2.2 Technical Programme Committee—Metallurgy

A.M. Garbers-Craig, Chairperson
N.C. Machingawuta, Vice-Chairman

H.E. Bartlett*	K. Manyukwi*
F.K. Crundwell*	J. Morkel*
G.C.P. Donoghue*	A.F. Mulaba
M. du Plessis*	F.W. Petersen
M. Dworzanowski*	J.H. Potgieter
L. Erasmus*	R. Suss*
P. Fouche*	W. van der Merwe*
J.M.A. Geldenhuis	J. van Huyssteen*
R.T. Jones*	W.H. van Niekerk

*Co-opted members

Eight events were held in what was a busy year for the TPC—Metallurgy. The year started off with a School on Mineralogy Applied to Metallurgy (July '05). This workshop focused on the mineralogical aspects of relevance to ore characterization in the different metallurgical unit operations such as milling, flotation, physical separation, and in the fields of hydrometallurgy and pyrometallurgy. Sampling and the statistical relevance of mineralogical data were also discussed.

The Mineralogy event was followed with a Physical Metallurgy Colloquium (August '05), during which invited speakers presented work on a range of topics, including failure analysis, steels, hard metals, aluminium and platinum.

The annual student colloquium, where students from the universities of Johannesburg, Pretoria and the Witwatersrand, as well as the Tshwane University of Technology gathered to interact and showcase their final-year projects, proved again to be a big success (October '05).

During the Light Metals Conference, presentations were given on the production of magnesium, aluminium and titanium metal and related topics (October '05). This was the first time that a conference covering light metals took place in South Africa.

The EMMES2005 Collaborative Conference on Exploration, Mine and Environmental Sampling was jointly organized by the SAIMM, GSSA and GASA (November '05). The main objective

of the conference was to discuss and examine industry standards for sampling, from early prospecting through mining and to the final metallurgical processing stages.

The highlight of the year turned out to be the Southern African Pyrometallurgy 2006 International Conference, which was held at the Cradle of Humankind (March '06). The conference covered the main areas of pyrometallurgy that are practised in Southern Africa, and provided very useful reference material on the different plant operations.

The colloquium on State of the Art of Automation and Control in the Minerals and Metals Processing Industries was again (as in 2000 and 2003) a joint venture between the SAIMM and SACAC (April '06). Perspectives on the use of automation and process control technologies in mineral and metal processing, as well as some case studies and current research, were presented.

The last event of the year was a Solid Liquid Separation Colloquium (May '06). This colloquium exposed delegates to information and experiences related to solid-liquid separation in minerals processing, as well as new technologies and equipment that are available.

The TPC—Metallurgy team has worked hard to make this year a very successful one. A special word of thanks to the TPC members, for all your effort. It was a very satisfying year, and your enthusiasm and drive are both contagious and energizing.

2.3 South African National Committee on Tunnelling (SANCOT)

J.A. Cruise, Chairman

A. Boniface	R.G.B. Pickering
A.L. Cross	E. Sellers
G. Davis	T.R. Stacey
A.A.B. Douglas*	F.B. Stevens
E. McCarter	J. Truter

*Deceased

SANCOT continues to be the active tunnelling arm of the SAIMM catering for both mining and civil tunnels. The

Schedule of Metallurgy Technical Conferences, 2005/2006				
Type of Event	Date	Title	Convenor	Attendance
Colloquium	26–29 June 2005	The Third Southern African Conference on Base Metals	W.H. van Niekerk	130
Colloquium	27–28 July 2005	Mineralogy applied to minerals processing	J.P.R. de Villiers	106
Colloquium	17 August 2005	Physical metallurgy	R. Suss	36
Colloquium	24 October 2005	Light metals conference—production of magnesium, aluminium and titanium in the 21st Century	M. Dworzanowski	45
Colloquium	18 October 2005	Student Colloquium	J.H. Potgieter	130
Conference	3–4 November 2005	EMMES sampling conference	H.E. Bartlett	131
Conference	5–8 March 2006	Pyrometallurgy	R.T. Jones	180
Colloquium	20 April 2006	State of the art of automation and control in the minerals and metals processing industry	A.M. Garbers-Craig	60
Colloquium	17 May 2006	Solid liquid separation	M.J. du Plessis	91

Annual report

SANCOT reflects both disciplines in the constitution of the committee and maintains the longstanding membership it has held over the years with the International Tunnelling Association (ITA) through correspondence and representation at ITA's annual conferences.

This year the ITA conference was held in Seoul, South Korea and SANCOT/SAIMM was represented by committee member Tony Cross.

The high light of the year was a one-day colloquium held in Durban on the driving of the new sub-aqueous tunnel under the sea at the harbour entrance. This tunnel joins the Point to the Bluff and is a mixed service tunnel for sewage, water and utilities. It is being driven with a tunnel-boring machine (TBM) which uses a bentonite slurry under pressure of 3.5 bars to balance the tunnel's depth of 35 metres below sea level. This is in order to prevent the ingress of the Indian Ocean, which might engulf the TBM, hinder its advance and end the contract. Very large pumps would then be required to dewater the tunnel. Presentations were given by Dave Ward, the Deputy Port Engineer of Durban on 'Expansion of the port of Durban—The need to widen and deepen the harbour mouth', by Ian Duncum, the Area Project Engineer of eThekweni on 'The history of the existing harbour tunnel', by Andy Griffiths, Technical Director of Goba consulting engineers on 'Planning, design and construction—Durban Harbour Tunnel' and Volker Breuning design engineer for the TBM manufacturing company Herrenknecht AG on 'Mixshield TBM for Durban' and 'TBM tunnelling systems'. The colloquium included a site visit down the tunnel and sundowners on a boat out of the harbour mouth to view environmental aspects, i.e. dolphins cavorting off the beachfront. The venue for the colloquium was at the National Sea Rescue Institute's building at the Point.

It is with sadness that we record the passing of Alastair Douglas during the year. He was an active member of the committee and his dry humour will be missed.

3. Publications

Portfolio Holder: R.G.B. Pickering

R.D. Beck, Chairman

F.M.G. Egerton

P.H. Ferreira

A.M. Garbers-Craig

R.T. Jones

N.C. Machingawuta

K.C. Owen

F.W. Petersen

R.E. Robinson

J.H. Potgieter

G.L. Smith

T.R. Stacey

J.N. van der Merwe

H.G. Waldeck

3.1 Journal

The SAIMM *Journal* was published in full colour from July 2005. This has been well received and Dawn van der Walt is to be congratulated on her use of colour to highlight features of the *Journal*. The *Journal* was published monthly this year for the first time in many years.

103 papers were presented, which is the highest on record. Three special editions were published that focused on particular

subjects: CSIR/Miningtek - 60 years of research (July 2005), Rock Passes (December 2005) and Water Barriers (May 2006). A student issue was published in April 2006, which contained papers written on project work carried out in partial fulfillment of their degrees.

54 Transaction papers, 40 Journal papers, 8 student papers and 1 comment on a paper were published. This represents the same number as the previous year of transaction papers which are peer reviewed and represent the peak of publishing technical quality. There was a large increase in Journal papers from 14 in the previous year. 21 possible transaction papers were rejected, with only 3 from South African authors. There was twice the number of mining papers in relation to metallurgical papers. This is more in line with previous years after two metallurgical special issues last year. The number of papers from outside South Africa decreased from 30 to 20%, representing 8 countries.

The number of papers published per issue increased with some shorter Journal papers, but remains the maximum that can be published without additional binding costs.

Advertising revenue was substantially higher this year. Our advertising agent, Harriet Isserouw suddenly passed away in December. Barbara Spence of The Avenue Company was appointed our advertising agent in February. Barbara has brought a professional approach to the job. Overall costs were in line with budget, except for posting, which had a one-off expenditure for the larger than usual CSIR/Miningtek edition.

Professor Robbie Robinson has continued with his thought provoking Journal Comments throughout the year, for which we are very grateful.

The DTP department has again maintained the high standard of *Journal* layout and thanks go to Dawn van der Walt and Zuliakha Malgas.

I should like to thank Nazli Mamdoo, the *Journal* Secretary and Publications Co-ordinator for her hard work, the members of the Publications committee for their advice, and all the staff at the secretariat for their input during the year. Finally thanks go to all those who gave of their time as referees, without whom the standard of the *Journal* could not be maintained.

There was no activity in respect to Book Publications. Miscellaneous sales were good.

4. Regional Development

Portfolio Holder: R.P.H. Willis

Key Performance Areas

To promote the interests of members based in different regions, the SAIMM:

- ▶ *supports the establishment and maintenance of branches to satisfy the local needs of its members for professional association and the exchange of technical information*
- ▶ *co-operates with other member societies of AS&TS and with associations and interest groups that have close ties with operating mines and metallurgical plants by holding joint technical meetings and collaborating in the field of publication.*

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4.1 SAIMM Branches

4.1.1 Johannesburg Branch

E.U.H. Sachse, Chairman
J. Pooley, Vice-Chairman

G.C.P. Donohue	X. Pan
V.G. Duke	J. Porter
D. Flemming	W. Taylor
C. Heili	A. Thin
J. Hericourt	M. Woodhall
A. McLeod	

The July 2005 to August 2006 year is reviewed in this annual report. Overall, the membership of the Branch Committee has remained stable and the level of support and commitment remains satisfactory from the broader SAIMM membership, mining companies and the supplier industries.

The attendance at meetings remains highly variable and— not surprisingly—is influenced by the relevance of the subject matter of the presentation.

However, the Branch Committee has taken the view that, in terms of its mandate to promote the activities of the SAIMM, it is important to represent fairly subject matter for broad as well as for specialized interest groups.

Committee

The Branch Committee Annual General Meeting was scheduled for Thursday, 20 July 2006, at which time new committee members were elected. The Chairman and portfolio members will be elected at the first Branch Committee meeting in August 2006.

Finances

One of the fundamental objectives of the SAIMM branches is to promote the interests of the Institute with a view to attracting new members. On this basis, the Branch aims to operate on a break-even basis. The simplified income and expenditure for the year are shown below:

Income:	
Sponsorship for functions	R 63 910
Expenditure:	
Venue, catering and secretarial	R68 050
Total nett profit/loss for the year:	R 4 140

It is believed that, whilst our events offer value for money, we should not request individual sponsors for additional amounts to cover the increased cost base.

Technical presentations

August 2005	South Deep shaft sinking close out report.
September 2005	Cementitious grout to underground workings
October 2005	Chinese economy and the Impact on SA Mining and Metallurgy

Industry

November 2005	Cancelled at short notice
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December 2005	Family outing: Wonder Cave and Rhino and Lion Park
January 2006	The Barplats story
February 2006	AngloGold Ashanti gold marketing strategies
March 2006	Technical visit to Military Museum: The impact of metallurgical advances on armaments
April and May 2006	No presentations
June 2006	Design and construction of the Impala Koepe winder floor
July 2006	The process of mineral rights applications

Acknowledgements

As chairperson, I would like to thank the Committee for their work during the year. Having regular committee meetings prior to the evening presentations has assisted with the overall co-ordination of the branch function.

I would like to thank Ginette Oliver for her hard work during the year and the secretariat in general for their support and the excellent co-ordination of events.

I would also like to thank our speakers for their valuable contributions, as well as the audiences and sponsors. It is always gratifying to see Council members and past-presidents in our audiences, as well as students.

Finally, on behalf of the outgoing Branch, I welcome the committee-elect to their tenure of office and wish them all of the best for the year ahead.

4.1.2 Free State Branch

No report was submitted this year.

4.1.3 Pretoria Branch

I. Matunhire, Chairman

L. Barlow	T. Mahlangu
F. Breedt	B. Ndlovu
W. Geyser	R. Raphukula
D. Gudmanz	R. Webber-Youngman
S. Havenga	

The Pretoria Branch of the SAIMM again organized a number of events during the year. The branch, together with the departments of Materials Science and Metallurgical Engineering and of Mining Engineering at the University of Pretoria, presented a series of metallurgical forums and mini colloquia (see Table). These events were well attended by students, lecturers and members from industry. Cocktail parties were held after these meetings and served as a get together for the members. The presidential address of the then president-elect, Willem van Niekerk, was held on 27 July 2005. The branch also again hosted the Research Seminar of the School of Mining and Mineral Sciences at the University of Pretoria on 19 October 2005, and it was attended by members from industry, the departments of Mining Engineering, Metallurgical Engineering, and Geology.

Mini colloquia, past year events, and future planning: Pretoria Branch of the SAIMM: 2005/2006

Date	Title	Presenter
2005-07-27	Opening address: new SAIMM President	W. van Niekerk, Presidential address
2005-10-19	Research Seminar	Departmental participation
2006-04-19	The The BIOX Technology—Principles and Practice	W. Olivier, Goldfields
2006-05-10	Recent mining and metallurgical projects—a metallurgist's perspective	K. de Wet, GTI
2006-05-17	Strand Surface Cracks in Continuous Cast Steel—The Role of Abnormally-Large Prior-Austenite Grains	R. Dippenaar, University of Wollongong, Australia
2006-07-26	Opening address: new SAIMM President	P. Willis, Presidential address
2006-08-23	Nanotechnology and project AuTEK	D. Compton, Mintek

I would like to thank my committee for their support, and also Chris Pistorius, Head of the Department of Metallurgical Engineering and Nielen van der Merwe, Head of the Department of Mining Engineering, University of Pretoria, for their continued support. Last, but not least, I would specially like to thank the people that worked behind the scenes and really put in a special effort to keep the SAIMM Pretoria Branch alive, namely Sarah Havenga and Daleen Gudmanz.

4.1.4 Western Cape Branch

P. van der Plas, Chairperson
A. Burger, Vice-Chairperson
D. Deglon, Secretary

M. Aziz
V. Fester
A. Lewis
A. Mainza
A. Nesbitt

J. Petersen
C. Sweet
J. Sweet
E. Thyse

The activities of the Western Cape Branch of the SAIMM can be divided into two main parts. The first is the promotion of mineral processing through the annual Mineral Processing conference. The second main activity is the promotion of mineral processing among students along different avenues..

Mineral processing conference

The objectives of the first activity are achieved through the annual Minerals Processing conference during the first week of August. The two-day conference opens with a plenary presentation on a general topic of interest. The parallel sessions are themed amongst others hydrometallurgy, pyrometallurgy, flotation, comminution, metallurgical accounting, measurement and control. The branch also implemented an initiative to promote collaboration with other tertiary institutions by presenting a bursary of R2000 to a postgraduate student to attend the conference. Furthermore, a cash prize is awarded to the best poster presentation by a student. A new initiative for 2006 will be a full attendance package to a MEi conference excluding accommodation and air fares.

The conference is normally preceded by a workshop with a clearly defined theme. Authors are invited to present in their field of expertise. A new development for the current year was the production of a DVD of the workshop proceedings. The aim of this initiative is to capture the wealth of knowledge for future reference by students and members of the SAIMM. A copy of the DVD was donated to each tertiary institution in the Western Cape.

Promotion and other activities

In conjunction with the Promotional activities through the Mineral processing conference, the branch organizes a student evening, which is attended by students from the universities of Cape Town (UCT) and Stellenbosch (US) as well as the Cape Peninsula university of technology (CPUT). The evening included a talk introducing the students to the SAIMM as well as a visit to the Olaf Bergh Brandy distillery in Goudini. A large number of final year students has jointed as student members of the SAIMM in January 2006.

Another way of stimulating students' interest in mineral processing research is by inviting final-year students to attend the annual conference.

The SAIMM prize for best students in Mining and Metallurgy at the different institutions was presented by Frank Edgerton at the Mineral Processing conference dinner to Xolelwa Boo (CPUT), Belinda Pieterse (US), Chumani Mshumi (UCT—materials), and Chris Ayers—(UCT—CHemEng)

Here follows a summary of the 2005 Mineral Processing conference and the workshop themed as Plant Design for Optimum Performance.

Minerals processing 2005

The annual Mineral Processing conference was hosted from 4 to 5 August 2005 at the Lord Charles Hotel in Somerset West. The conference was attended by 159 delegates of whom 10 was from international destinations and 38 student delegates. The themes from the different sessions included comminution, flotation, hydrometallurgy, measurement and control, metallurgical accounting, and pyrometallurgy.

Karen Ireton was invited to present the keynote address on Thursday morning. The title of her presentation was 'Key issues facing business—A view on the decade to 2015'. She discussed key aspects and challenges that business has to address to ensure we develop along a more sustainable path. Furthermore, she presented ideas on how government can assist business.

Geoff Hansford presented a keynote address on Friday morning titled 'Bioleaching of Sulfide minerals: Development and Understanding'. He gave a history of the application of bio-leaching from Roman times to current application in Chile. The requirements for present day operations were discussed using Arequipa, Peru as an example. He also discussed current postulated mechanisms and factors that influence the kinetics of the bioleaching process.

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The format of the conference was changed due to the large demand by students. The short presentation and poster sessions were expanded to accommodate 22 presenters. The change was well received by the delegates.

Workshop—Plant design for optimum performance

The conference was preceded by a themed workshop. The theme was 'Plant Design for Optimum Performance'. Experts in different fields of design were invited to present a 20-minute presentation on a specific topic. Martin Wright was the chairperson of the workshop organizing committee.

Michael McMahon presented a keynote address titled 'What have we learned from experience? How do we strike the best balance between process demands and plant design expediency?' He discussed the number on principle is successful projects, namely experience. Furthermore, he talked about the forgotten principle of safety. The different themed sessions had three to four presenters discussing different aspects of the theme. The workshop ended on a high note with a keynote address by Michael Halhead titled 'The Perfect Concentrator—a wish list'. He added additional point of thought about design and summarized the discussions from the workshop.

The technical committee concluded that the knowledge and experience transferred to the delegates should be made available to a wider audience, including undergraduate students. After the consent of all presenters was obtained, it was decided to video the proceedings. The product is a set of 4 DVDs a copy of which was supplied to each institution for internal use. A DVD set is also available to all delegates at a price of R500.

4.1.5 Bushveld Branch

C.A.F. Sweet, Chairman

The Bushveld Branch had an outing to the revived Crocodile River Mine, which was very well attended. We had members as well as non-members attending. A presentation was given on how the operation was reestablished, the refurbishment of the concentrator and the laboratory, services, etc.

It was explained how the underground operations were accessed and how the mine was recommissioned.

The philosophy, team building and the 4 principles applied in the recommissioning were explained and questions answered. The mine, achieved a million fatality-free shifts in September 05, which was an excellent achievement, taking into account the recovery plant refurbishment as well as the reestablishment of the underground operations, training the staff etc. The policy of 'Safety is a non negotiable' strictly applies and 'Safety is a way of Life' is lived by the team.

The Branch chairman also helped the Johannesburg Branch by giving a presentation on the Crocodile River Operation at one of their meetings, which also had an excellent turnout.

For the coming year, three visits are in the process of being negotiated and although the branch is spread over a wide area, we will continue to work towards growing the Institute. Several new members were recruited during the year.

I thank those who helped with the past arrangements and wish the SAIMM and its members a strikingly successful year ahead.

4.1.6 Zululand Branch

I. Walton, Chairman

E. Clare

E. Williams

The Zululand Branch of the SAIMM has once again maintained its association with the other professional institutes in the KZN area. Our members have been invited to several presentations in the Durban area but unfortunately, due to a reluctance to travel at night, these presentations have not been well supported by members from the Zululand area.

Our local presentations, on the other hand, have been well supported by members from Richards Bay Minerals, Ticom SA and the aluminum industry. Suppliers to these industries have also given us great support during the year.

Branch technical activities

The Branch has enjoyed a fairly full technical programme this year with members of the industry giving some extremely interesting and varied presentations.

Buckman Laboratories gave a talk on 'Dust suppression—a review of the latest equipment and products and applications in the minerals industry'.

A presentation entitled 'Reflections on Ilmenite Roasting and Magnetic Separation' was given by a member from the Richards Bay Minerals Technical department. This paper was also presented at the Heavy Minerals Conference in Jacksonville in October 2005.

ImproChem hosted a very informative presentation entitled 'Legionella—A South African perspective'. This was very well attended and, following on from this, the paper was presented to the SHEQ department at Richards Bay Minerals.

Linatex hosted a presentation on their product range followed by a braai at the Richards Bay Country Club.

Presentations by Multotec and a review of the Moma Sands Project will complete our technical events for the calendar year.

The Zululand branch is also involved in hosting the Heavy Minerals Conference, which will be held in Zululand in September next year.

4.1.7 Mpumalanga Branch

No report was submitted this year.

5. Engineering Science and Technology in South Africa

Portfolio Holder: R.P. Mohring

5.1 Engineering Council of South Africa (ECSA)

	<i>Mining</i>	<i>Metallurgy</i>
<i>Representative</i>	R.P. Mohring	R.F. Sandenbergh
<i>Alternates</i>	J.A. Cruise	W.H. van Niekerk

The Institute nominates members to the registration and professional advisory committees for mining and metallurgy.

During the past year, these committees continued their important work of screening the qualifications and practical experience of applicants for registration as Professional Engineers. The Institute also provides the administration and assessors for the ECSA Professional Review, a prerequisite for registration.

Annual report

Assistance continues to be provided by nominees of the Institute in the accreditation of courses offered by universities and technikons in the disciplines of mining and metallurgy.

Professional Advisory Committees

PAC Mining

J.A. Cruise, Chairman

M.H. Rogers, Vice-Chairman

A.N. Brown

A.A.B. Douglas

F.M.G. Egerton

J.C. Ngoma

R.C.D. Phillis

T.R. Stacey

J.N. van der Merwe

D.J. van Niekerk

ECSA Council

The Minister of Public Works has appointed the Members of Council for the 2005 to 2009 term of office in terms of the Engineering Professions Act, 2000. The names of the new Council Members are available on ECSA's website.

Recognition of voluntary associations

As reported last year, all recognition of Voluntary Associations previously by ECSA, whether formal or informal, had lapsed with effect from 4 March 2005 but all registered persons to whom ECSA had previously granted exemption from a portion of their annual fee were again granted the reduction until 31 March 2006. The SAIMM applied for and has been granted formal recognition in terms of the new rules allowing members of the SAIMM to be entitled to the reduced ECSA fee.

The identification of engineering work: compulsory registration

The steering committee of ECSA, which was instituted to manage the identification of engineering work process has, after a long consultation process with all interested parties in the engineering industry, published a 'Framework document for the Identification of Engineering Work', which was approved by the ECSA Council. Draft regulations to legalize the process has been drafted. This will require that all engineering practitioners who perform identified engineering work be legally registered with ECSA.

The Regulations and the Report on the Identification of Engineering Work will now be presented to the Council for the Built Environment for liaison with the Competition Commission.

Continuing professional development (CPD)

A formal process of renewal of registration, through meeting ECSA's CPD requirements, in terms of Section 22(1) and (2) of the Engineering Professions Act, has been implemented as from 1 January 2006. All registered persons will have to renew their registration every five years (subject to an initial phasing in period).

The SAIMM has been approved by ECSA as an approved accreditor of courses and conferences in mining and metallurgy for CPD purposes.

Education/Standards

The BEng, BTech(Eng) and NDip (Eng) have been registered on the National Qualifications Framework. Learnerships have been developed for the new BTech(Eng) and NDip(Eng) and will soon be registered with the Department of Labour.

ECSA has engaged the Mine Health and Safety Council (MHSC) to consider registration as the mechanism of licensing under the Mines Health and Safety Act. The MHSC has engaged its stakeholders and have compiled a draft position paper for discussion.

ENGENIUS, a national campaign to promote the engineering profession, by coordinating the promotional efforts of stakeholders and career guidance organizations, has been launched.

PAC Metallurgy

R.F. Sandenbergh, Chairman

N.A. Barcza

R.D. Beck

L.A. Cramer

R.H. Eric

H.E. James

W.H. van Niekerk

Metallurgy

The mission of ECSA is to ensure, through a co-operative process of quality assurance, that persons entering the profession are educated and trained according to widely accepted standards, so as to be able to render a professional service for the benefit of the public and the country as a whole. The Professional Advisory Committees of ECSA contributes to this mission by considering matters specific to the discipline and also contributes to wider policy matters as required.

During 2004/2005 the PAC Metallurgical Engineering again considered applications for registration as Professional Engineers by means of paper evaluations and interviews. The requirement for Continuing Professional Development of Professional Engineers is being implemented by ECSA and the PAC supports the strong involvement of the SAIMM in such a process for metallurgical engineers. Members of the committee were also involved in accreditation visits to universities. Dr Willem van Niekerk resigned during the year and the committee would like to record its appreciation for his contributions to the activities of the committee.

5.2 South African Academy of Engineering

R.F. Sandenbergh, Chairman

The objectives of the Academy of Engineering are to promote excellence in the science and application of engineering for the benefit of all members of the public in South Africa. The Academy comprises South Africa's most eminent engineers of all disciplines and related professionals with proven ability and achievement. During the year the representation of mining and metallurgical engineers in the SAAE was increased to recognize their achievements and to facilitate interaction and contributions over a broader front of engineering.

The South African Academy of Engineering and the University of Pretoria took over the responsibility for coordinating the annual Hendrik van der Bijl Lecture at the University of Pretoria. This year's Hendrik van der Bijl Lecture, with the title: Why PBMR will be the first successful commercial Generation IV Reactor, was presented on 18 May 2006 by Jaco Kriek, CEO of PBMR (Pty) Ltd.

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6. State Liaison

Portfolio Holder: D.J. van Niekerk

6.1 Outcomes-based Education and Training (OBET)

Mining Qualifications Authority

The main achievements for the Mining Qualifications Authority (MQA) as Sector Education and Training Authority (SETA) for the SA Mining and Minerals Sector (SAM&MS) for the year under consideration, include the following:

- ▶ Presentation of the draft generic competency profile for Mine/Operation Overseeing for the three main sub-sectors vis-à-vis underground hard rock, underground coal and surface mining and
- ▶ Publication of the DME's 'Discussion Paper: Training, Competency Certificates and Licensing in the SA Mining and Minerals Sector' which, amongst others, proposed registration to be the appropriate mechanism to replace competency certificates currently issued by the Government.

The Engineering SGB/ECSA

The main achievements of the Engineering SGB for the year under consideration include the following:

- ▶ registration of the 480 credit Stage 1 competency standard in Engineering Technology at level 7 on the National Qualifications Framework (NQF) (B Tech degree for Engineering Technologists)
- ▶ registration of the 360 credit Stage 1 competency standard in Engineering Technology at level 6 on the NQF (N Dip for Engineering Technicians)
- ▶ obtained agreement from stakeholders to implement the Stage 2 competency standards for Engineering Technologists and Engineering Technicians. The Stage 2 competency standards for Engineers have yet to be approved by the respective professional advisory committees and the Central Registration Committee before it can be implemented
- ▶ preparation of a draft L5 (120 credit) qualification in Engineering Technology to cater for numerous engineering occupations such as Mine/Operations Overseeing. The said draft qualification is designed with a sufficient generic engineering component that would be portable and allow progression and articulation to other engineering qualifications and
- ▶ obtained agreement for the competency profile for Certificated Mechanical and Electrical Engineers and Certificated Managers (Mining) captured by the proposed draft Stage 2 Qualification at level 7 ('broadly defined practice') on the NQF. Assuming that the stakeholder groupings in the SA Mining and Minerals Sector approve the said qualification, this signifies a major achievement by the relevant, Standards Generation Group of the Engineering Standards Generation Body. The participating Mines Professional Associations which include the SAIMM, have played a significant role in achieving this critical milestone. This generic

qualification will also provide the competency profile for practitioners in the Factories, Transport and Marine Sectors.

Outstanding/unresolved issues

The following outstanding/issues still require resolution:

- ▶ the issue relating to the implementation of the newly designed Stage 2 engineering qualifications—with specific reference to its integration/harmonization with current registration practice and qualify assurance in ECSA
- ▶ legislative interventions and compulsory licensing in the SAM&MS
- ▶ compulsory currency-of-competence in the SAM&MS
- ▶ finalization of the Management-of-Mines Qualification
- ▶ finalization of the Mine/Operations Overseeing Qualification
- ▶ finalization of the Stage 1 and Stage 2 Qualifications for CEs/CMs and
- ▶ finalization of the Shift/Operations Overseeing Qualification.

Identification/reservation of engineering work

Background

Section 20 of the Council for the Built Environment Act requires the CBE to identify the scope of work for every category of registered persons after receipt of the recommendations of the councils for professions prepared in terms of their respective acts.

To expedite the completion of the identification of engineering work, the ECSA Council established an Identification of Engineering Work Steering Committee (IDoEW-SC). The inaugural meeting of the IDoEW-SC took place on 11 November 2004, followed by subsequent meetings held on a monthly basis since February 2005.

The Committee consists of representatives from the different disciplines and registration categories as well as individuals representing interests groups. The Steering Committee has also made use of a 'Reference Group' consisting of persons who expressed their interest in the project and undertook to contribute to the process without having to attend the meetings.

The ECSA Council meeting held on 16 September 2005 approved the following documents produced by the Committee:

- ▶ the 'Baseline Report', dated 14 August 2005, and
- ▶ the draft 'Framework for the IDoEW', dated 14 September 2005.

The Baseline Report

- ▶ sets out the reasons for the identification of engineering work
- ▶ proposes a procedure to specify engineering work that needs to be reserved for Registered Engineering Persons making use of competency standards
- ▶ provides a preliminary list of Identified Engineering Work functions to be reserved and
- ▶ documents the process which has been followed by the Steering Committee.

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The Framework for the Identification of Engineering Work

- sets out the approach to the identification of work
- establishes the manner in which work for categories of persons registered with the ECSA may be identified and
- provides the logical framework for the development of regulations.

Progress report

A final Framework document, dated 21 November 2005 has been prepared. This marks completion of Phase 1 of the SC's work. Phase 2 is seen as achieving the following outcomes:

- Finalization of the draft rules (regulations) for referral to Council
- Updating of codes of practice
- Completing the approach to deal with 'Specialist Lists' and 'Specified Registration Categories'

In this phase it is also hoped to bring the matters below, which have been under long consideration, to conclusion:

- Engagement with the SACPCMP on avoidance of dual registration through Exemption
- Dialogue with the MQA concerning IDoEW/RoEW in the SA Mining & Minerals sector
- Clarification of legal opinions on overlap between the CBE, EP, and MHS Acts, and
- Determining factors against which recommended engineering work will be assessed (acid test)

Discussions with the Joint Structural Division of SAICE were successful in agreeing an approach for appointment of Competent Persons to comply with the National Building Regulations and SANS10400, while also satisfying the prescriptions for IDoEW/RoEW.

Further work on a Code of Practice for Identified work for Professional Categories of Registration, and a memorandum on Managing Risk within Engineering Work, which support the Rules and the Formulation of Specialist Lists/Specified Categories, is in progress, with drafts being circulated within the SC for discussion at the next meeting of the SC on 11 April. Further monthly meetings will be confirmed at each forthcoming meeting.

The SC continues to table the issues below, which the ECSA may have to address before finalizing the IDoEW:

- dealing with small contractors that perform civil mechanical and electrical engineering works within the construction industry
- the use of discipline specific codes of practice as an appropriate means of regulating the behaviour of registered persons, and
- rationalization between various pieces of legislation, i.e. OH&S Act, MH&S Act and Merchant Shipping Acts.

7. International Liaison

Portfolio Holder: R.P.H. Willis

Key Performance Areas

To achieve its objectives, the SAIMM

- *participates in and represents South Africa on bodies*

such as the Institute of Materials, Minerals and Mining (IMMM), the Iron and Steel Society Inc (ISS), the Mining, Metals & Minerals Society (TMS), and together with Mintek on Infacon

- *appoints corresponding members in areas such as Australasia, Botswana, Brazil, Canada, Chile, Europe, the Far East, Ghana, New Zealand, United Kingdom, and the United States of America, and interacts with sister institutes in other countries to promote international exchange of scientific and technical information.*

7.1 APCOM

F.A. Camisani-Calzolari, Chairman

During the year under review there were no APCOM symposia held. The last symposium was held in Tucson, Arizona USA, from 30 March to 1 April 2005 and was the 32nd of the series.

The next Symposium is the 33rd International Symposium on Applications of Computers and Operations Research (APCOM 2007), which is being organized by the Department of Mining and Engineering of the University of Chile in Santiago and will take place in the second half of April 2007.

APCOM 2007 will be held at the Sheraton Hotel and Convention Center and the Chairman of the Organizing Committee is Eduardo Magri, a well-known personality in the South African mining industry. It is the first time in its history that APCOM is being held in South America.

APCOM 2007 will consider work submitted in the following fields of interest to the mining industry:

- Exploration
- Emerging technologies
- Modeling and estimation of deposits
- Mine planning, design and operation
- Communications in standardized networks
- Ore processing and plant operation
- Control, automation and robotics
- Investment planning and project evaluation
- Global projections for the Industry
- Company information systems
- Knowledge management
- Safety systems
- Financial systems
- Education and training systems
- Environmental matters

The submission date for abstracts is 1 August 2006. 30 August 2006 is the date for the submission of the first extended drafts. The web page of the Symposium is www.apcom2007.cl and the contact person is Ms Olga Cherepanova, Tel (56-2) 652 1519 or email info@apcom2007.com.

7.2 INFACON

N.A. Barcza, *National representative*

The Indian Ferro Alloy Producers' Association (IFAPA) is hosting INFACON XI to be held in New Delhi at the Taj Palace from 18 to 21 February 2007. IFAPA has had an overwhelming response to the Call for Papers, with well in excess of 100

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Abstracts being received. The papers are being refereed and only those that are considered suitable will be accommodated in the Technical Programme of the INFACON XI Congress. A paper from the South African Ferro Alloy Industry has been prepared at the invitation of IFAPA with inputs from representatives of FAPA and the SAIMM co-founders with Mintek of INFACON in 1974. There are also a number of other papers from South African organisations and authors listed in the preliminary programme.

Topics in the preliminary programme include the following:

- energy and environment
- carbon reductants
- chromium alloys production and operation, chromium development and chromium fundamentals
- manganese production and operation, manganese developments and manganese fundamentals
- special ferro alloys/logistics
- raw material/post tap hole operations
- ferro nickel and ferro titanium and silicon
- electrodes
- furnace design and equipment
- control, modelling and simulation.

INFACON XI will be concluded with a Panel discussion on the Ferro Alloy Industry consisting of Sessions Chairmen, Technical Committee Members and Organizing Committee Members. INFACON XI should be one of the major highlights of the ferro alloy industry in the coming year.

The INFACON Committee includes P. Roy Chairman, Organizing Committee, R.K. Saraf, Co-Chairman, T.K. Roy Chairman, Technical Committee and T.S. Sundaesan Secretary General.

The secretariat can be contacted at ifapavsnl.net or ifapa@hotmail.com

The website can be reached at www.infacon11.com.

7.3 SAMREC

J.R. Dixon, Chairman

The SSC completed its first full year as a combined committee addressing all aspects of mineral resource and mineral reserves reporting and valuation. The year culminated in the issue of the updated SAMREC Code and the SAMVAL Code for industry comment. Comments will be accepted until end of July 2006 thereafter the two codes will be officially launched. The formulation of the codes has taken a lot of hard work by a lot of people giving up their valuable time. Sincere thanks go to all who participated in the many working groups. Special thanks to Matt Mullins, SAMREC Update, and Rob Croll, SAMVAL Code, for chairing the main working groups.

SSC has also been actively involved with The Committee for Mineral Reserve International Reporting Standards (CRIRSCO) which is a committee representing professional bodies and technical societies that are responsible for mineral reporting codes and guidelines in Australia, Canada, Chile, South Africa, UK, USA and Western Europe. The members of the committee are nominated by the national resource and reserve reporting bodies to which they belong. SSC has two representatives on the committee: Ferdi Camisani and Roger Dixon.

CRIRSCO is currently engaged in four major initiatives:

- The development and promotion of the CRIRSCO Template, which is scheduled to be published in 2006. It is intended as a guideline for countries developing their own reporting standards and for comparison and alignment with other international reporting systems including the United Nations Framework Classification (UNFC) and the Society of Petroleum Engineers (SPE) Guidelines.
- Alignment with the UNFC, which was updated in 2003 with input from the hydrocarbon industry. The update failed to recognize the difference in approach to reporting resources and reserves of the hydrocarbon and the solid mineral industries. CRIRSCO has re-engaged with the United Nations Economic Commission for Europe (UNECE) most recently in Geneva in November 2005, and has committed to lead efforts to produce definitions and guidelines based on the CRIRSCO Template that are compatible with the needs of the users of the UNFC. This work is scheduled for completion by October 2006.
- Dialogue with the International Accounting Standards Board (IASB), which is developing a new Accounting Standard for the Extractive Industries as part of its International Financial Reporting Standards (IFRS). The current phase of the development involves a review by the IASB of existing resource and reserve definitions for hydrocarbons and solid minerals. The hydrocarbon industry has been similarly involved
- Convergence of definitions between hydrocarbon and solid minerals industries. Arising from discussions with the UNECE and IASB, it is clear that there is a perception outside of the extractive industry that the hydrocarbon and solid minerals sectors are essentially the same and that resource and reserve definitions should be compatible. CRIRSCO is in discussions with the SPE Oil and Gas Reserve Committee to examine the extent to which convergence of definitions might be possible.

The SSC takes pride in the fact that Ferdi Camisani was appointed chairperson of a UNECE working group working on the harmonization of reporting standards between solid minerals industry and the hydrocarbon industry. The SSC was also honored to host a UNECE workshop on this topic over 16–19 May where several international delegates were present. Delegates were suitably impressed with the involvement of so many people in the SSC structure and the rigorous consultation process that takes place in South Africa. The UN delegates were particularly interested in the contents of the SAMVAL Code.

The SSC continues to have a close relationship with JSE Limited and has continued to provide the Readers Panel for monitoring Competent Person Reports submitted to the JSE. The provision of this service has seen the quality of reports submitted improve, with the odd exception, to a very high standard.

The SSC has established reciprocity agreements for its members in Australia, and Canada and has given reciprocity to several professional bodies in Australia, Canada, The United States, The United Kingdom and Western Europe.

I wish to thank the secretariat of the SAIMM for their ongoing support and administration of the SSC.

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8. Management and Administration

Portfolio Holder: W.H. van Niekerk

The Secretariat consists of:

Ms Carina Reynders (Manager)
Mrs Shahida Moosa (Switchboard/Receptionist)
Mrs Zuliakha Malgas (DTP Operator)
Miss Nazli Mamdoo (Journal Secretary/Publications Co-ordinator)
Mrs Ginette Oliver (Membership and Subscriptions Administrator)
Mrs Anna Panana (Conference Secretary)
Mrs Apathia Sello (Administration Clerk)
Mrs Lerato Tsiki (Accountant)
Mrs Dawn van der Walt (DTP Supervisor)
Ms Caroline Williams (Conference Co-ordinator)
Mrs Lara Winning (Conference Co-ordinator)

The SAIMM, Office Bearers and Council records their appreciation to the above for their service.

8.1 Finance

J.A. Cruise, Honorary Treasurer

Last year our auditors, KPMG, increased their fees from R16 000 to R25 000. Their quotation for this year was R60 000—more than double last year's fee. This was considered to be unacceptable and so for this year your council approved a change in auditors to R.H. Kitching, whose fee quotation at R18 000 was considered far more reasonable.

This year has been another financially successful year for your Institute, making it six good years in a row. We hope that that this coming year, the run of fat years will extend to the biblical seven.

If we look at the Income Statement summary, we see that our surplus for the year was R3 728 041 (R1 352 537), of which R489 534 (-R599 126) was operating surplus and R3 248 685 (R1 951 819) was income from investments.

The Detailed Income Statement shows that subscriptions for Company Affiliates increased to R377 930 (R363 188) and that for Individual Membership increased to R944 369 (R926 625). As this increase is below the annual subscription rate increase, it indicates a slight drop in real terms.

Conferences, colloquia, etc. more than doubled in surplus to R1 981 615 (R773 902). This was due to outstanding technical programmes, which included a number of successful international symposia. Both the mining and metallurgical technical programme committees contributed equally to this surplus, and in a photo-finish to the line, the metallurgical committee won by the proverbial short head.

Income from investments showed an increase in dividend revenue to R242 677 (R207 767), a decrease in interest received to R67 818 (R82 489) due to a smaller percentage holding of cash in the portfolio, a doubling of the adjustment of investment value to R2 689 611 (R1 305 828) and a decrease in the value of assets sold R248 579 (R355 735).

Expenditure for the year increased to R2 814 380 (R2 662 841). This was made up by an increase in secretarial costs to R1 710 100 (R1 591 971), an increase in *Journal* expenses to R1 444 031 (R1 295 186) and a slight increase in *Journal* secretarial fees to R113 798 (R112 675) and offset by an increase in advertising revenue of R553 773 (R463 560) and a decrease in depreciation to R75 224 (R120 679).

Our listed investments increased by 43% to R8 426 352 (R5 892 806). Our cash and cash equivalents increased to R3 087 087 (R2 408 197). Our total assets increased during the year to R12 798 538 (R9 868 159) and total liabilities

decreased to R1 496 663 (R2 114 650).

This year's financial success is due to many people whose unstinting work often goes unnoticed. To the technical programme committee members, whose voluntary input has been remarkable, to the conference co-ordinators on the staff, who carry the burden of the workload and especially to Lara Winning, who this year bore the brunt of assuming control of the conferences at a moment's notice, to the rest of the staff in the Secretariat who are the engine room which keeps our Institute running, you are the unsung heroes—thank you.

Finally, I would like to thank Lerato Tsiki, who took over the accounting function from Lara Winning and our new auditors R.H. Kitching who have produced these detailed financial statements—may our association be a long one. Last but not least, thank you to our new Institute Manager, Carina Reynders, who has now completed one full year—now you know what the job is all about.

Seven fat years need not be followed by seven lean years.

Addendum

New Members

Fellows

S.K. Chakraborty, S.N. Diachenko, G.R. Lane, K.L. Morton, J.P.C. Mutambo, M.D. Nell, D.J. Porter, B.J.G. Rowlands, S.M. Rule, J. Sakala, M.R. Sharpe, L.G. Sinclair, P.T. Slatter, A.G. Smith, D.J.D. Stander.

Members

I.R. Ballington, L.D. Barlow, U. Bester, J. Breedt, K.R. Brentley, K.O. Chabedi, J. Chirasha, W.J. De Beer, G.D.R. Fairbairn, D.R. Fenn, K.S. Hanekom, W.P. Johnstone, M. Kalenga Wa Kalenga, D. Kalumba, F.W. Kock, O. Krzyzanowski, N. Kumalinga, J.J. Lategan, C. Lucion, N.M.H.C. MacNulty, F.N. Mashimbye, S.P. Matthew, G.L. Meyer, M. Molapo, S. Moses, J. Mshanga, D.P.R. Munro, S. Ndiyamba, L.A. Nienaber, V. Novy, R. Nsamba, M.A. Paurar, G. Pauselli, C.A. Preece, R. Rautenbach, D. Reeves, C.L. Reichardt, P.M. Rweyemanu, J.M. Sabio, K. Sadykov, S. Shamaila, S.M. Sithole, M.B. Skead, H.J. Snyman, S. Sondashi, A.Z. Toper, L.G. Treadgold, N.S. Tshiloane, P.J. van der Plas, S. Weimar, J. Wesseloo, A. Wilkinson, S.A. Wright, T. Zaniewski.

Associates

M.W. Arthur, C.R. Ayers, S.U. Banda, R. Botha, C. Brandt, R.T. Chama, D.E.G. Connelly, W. de Vos, L.E. Dimbungu, V. Dube, P.W. Erasmus, B.K. Ferreira, T. Gazis, K.A.A. Hein, D.P. Holm, E.R. Johnson, E.K. Mabaso, H.B. Magagule, T. Maikano, M.M. Manamela, S.H. Mapheto, V.M. Masemola, M. Matema, S.G. Mgenge, K.J. Mohlakoana, C. Mwale, K.D. Scott, P.V. Seodigeng, B.S. Xakalashé, N.P. Zwane.

Students

T.C. Baloyi, S. Barton, O.A. Bello, P.D. Bembe, C.A. Bonze, Z.E. Buntse, M. Chhiba, K.T. Chiloane, D.L. Cloete, T.T. Davhana, B.W. Dladla, M.C. du Plessis, N.E. Fhedzi, D. Fotolela, Y. Ganbito, N. da C. Gariav, Y.S. Godloza, C.M. Harker, M. Hochobeb, D.R. Janse van Vuuren, N.F. Jantjies, N. Jujuju, H.P. Kapola, T. Kekana, M.M. Kenosi, M.R. Kgampe, T.J. Khemisi, S.X. Khosa, S.S. Khoza, S. Khumalo, B.A. Konyana, R. Kotze, G.R. Lakey, G.G. le Roux, K.J. Lebekoe, D.C. Lebopa, T.I. Lefakane, R.I. Letsholo, T.B.L. Letsogo, L.L. Lijojo, M.O. Links, J.M. Lubamba, X.W. Lwane, M.M. Mabasa, T.G. Mabasa, T.R. Mabebe, T.N. Machacha, M.Z. Macingwane, P. Madima, P.C. Mafemo, R. Mafiri, I. Magagula, S.P. Magwaza, J. Mahlangu, V.A. Maimela, N.L. Majoe, R.T. Maringa, N. Maseko, P. Masete,

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S.J. Mashego, P. Mashiane, K.C. Matamba, T. Mateta, M.C. Matholeni, W.R. Matizamhuka, K. Matlalo, B.J. Mavuso, S.M. Mazubane, M.W. Mbalaka, A. Mhlambi, S.M.N. Mhlambi, M.L. Mikka, R. Mkhabela, S.N. Mkhabela, H.M. Mlotshwa, G. Mmope, K.D. Modiba, M. Moganedi, S.M. Mogopa, M.D. Mogwere, S.S. Mohlopi, M.A. Mojaki, S.M. Mojabelo, L.M. Mokgethi, M.C. Mokgohloa, W.R. Molapisi, P. Molefe, M.J. Moloto, B.I. Morena, T.D. Motoena, I.B. Motshwaedi, S. Mpetsheni, M.E. Mphaki, T. Mudau, T.D. Mudimeli, M.B. Mulefe, C. Naidoo, E.S.T. Nakathingo, M.J.-J. Ndiabintu, X. Ndlovu, T. Ndou, H.H. Netsvikweta, S.P. Ngcangca, N.S. Ngcobo, M.A. Ngobeli, R.R. Ngobeni, A.B. Ngobese, S.A. Ngwenya, A. Nhasengo, F.P. Nhlapo, S.A.S. Nhleko, S.L. Nkomo, S.M. Nkosi, S.R. Nkosi, Y. Nombewu, N. Nteta, I.O. Ogunniyi, J. Oosterhuis, O.O. Oyekola, T.G. Pato, M.D. Paulsen, S.P. Pearton, M.S. Phakgagu, R.K. Phasha, N.E. Phezo, L.S. Phiri, I.A. Phoshoko, H.G. Prins, E.A. Quaye, M.E. Rachidi, Z.E. Radebe, O. Rakumakote, N.J. Ralephenya, M.T.E. Ramaphakela, A.M. Ramathunya, R.O. Ramogotsi, B.A. Ramtho, T. Ratau, N. Sabelo, N. Sadiki, M.W. Seakamela, B.T. Sebole, C. Sebothona, T.J. Segapela, T. Sehloho, L.M. Semenya, N. Senkge, L. Seshibe, N.M. Setsiba, B.S.F. Shaba, T.O. Shoba, M.B. Shongwe, P.L. Sibiya, T.G. Sidiyo, M.D. Sigama, G.T. Siko, V.S. Simelane, M. Sineke, K.J. Sithole, P.V. Sithole, R.W. Sithole, S.S. Sithole, R.W. Sitole, T. Tamenti, T.S. Thanyani, K.M. Tjale, G.J.T. Tladi, T.T. Tladi, K.P. Tlalang, M.I. Tlhapi, L.I. Tlhasi, W. Todd, N.E. Tolbat, M.P. Tshabalala, N. Tshabalala, J. Tshukutswane, A.E. Tsolane, M.D. Tsotsotso, P. Yobeka, B. Uugwanga, A.A. van den Berg, T. van den Berg, C. van Lill, G. van Niekerk, J.S. Vilakazi, E. Webber, H. Weitz, A. Zulu, S.S. Zwane.

Company Affiliates

CDM Group, Shell South Africa Energy (Pty) Ltd

Resignations

Fellows

J.S. Carr, J.A.C. Diering, S. Jahanshahi, J.E. Jones, N.P. Lock, P.G. Mason.

Retired Fellows

M.F. Fleming, J.R.H. Shaw.

Members

L.D. Boshoff, C.S. Cowie, H. Dong, A.D.D. Forbes, H.P. Galloway, P.R. Holmes, F.C. Naude, T.V. Owen.

Retired Members

S.B. Middleton.

Associates

C.G. Baker-Duly, A.E. Capendale, B.A. Carpentier Alting, C.L. Claassens, J.R. de Villiers, W.P. de Villiers, M. Dry, A. du Plessis, J.V. Ferreira, E.P. Jonker, D.P. Martin, M. Matema, F.F. Muller, J.L. Peenz, J.N. Randell, M. Sephton, G.H. Von Oppen, S.E. Wilkens, W.J. Zylstra.

Students

D.R. Janse van Vuuren.

Company Affiliates

Samancor Limited.

Members transferred to Higher Grade

Transfer from Member to Fellow

D.M. Brazier, P.R.K. Chileshe, R.A. Johnson, D. Limpitlaw,

A. Mulaba, J.C. Ngoma, H.E. Bartlett, R.C.D. Phillis, V.G. Duke, M. Dworzanowski.

Transfer from Associate to Fellow

C.M. Goodall, P.R.S. van Dorssen, D. van Heerden, N.R. Williams.

Transfer from Associate to Member

J.W. Achleitner, D.P. Davies, R. Besslaar, J.H. Brits, W.A. Cilliers, W. Bender, N.A. September, N. Tshiloane, A. Acker, A.E. Coetzee, C. Mthombeni, G.J.J. van Tonder, C.K. Chabedi, L.P. van S. De Villiers, L.D. Meyer, S.J.J. Van Heerden, A. Vermeulen.

Transfer from Student to Member

C. Green, W.C. Sweet, S. de Villiers, T. Tomicki.

Automatic transfer to Associate

K.B. Andreas, F.J. Baloyi, W. Banda, E.T. Boshoff, J.H. Breytenbach, J.H. Dengeinge, M. Gaoetswe, B.M. Litana, I.G. Lute, D.M. Mogosetsi, H.I. Mokwena, K. Motlaleng, L.S. Mulaudza, M.J. Netshipale, R.S. Ngaka, G. Njowa, F.J. Nkuna, G. Pienaar, C. Philander, E.S. Ramorula, Sechaba, M.C. Smit, D. Takalani, J.J. Taute.

Members who retired

Fellows

L.F. Baars, B.W. Holtshousen, O.G. Lilford, B.K. Loveday, D.I. Ossin, P.H. Radcliffe.

Members

P.J. Coxall, H.G. Gastrow, J.M. Goodwin, D.J. Hugo, A.N. Jones, M.J.H. Tonking, A.P. van Jaarsveld, P. van Schaardenburgh.

Deceased

Honorary Life Fellow

A.A.B. Douglas and P.R. Jochens.

Retired Fellows

M.J. Daly, J.D. McNamara, J.B. Nangle, P.N. Roberts, A.H. Taute, P. Trope.

Retired Members

P.J. Jansen van Vuuren.

Retired Associates

P.I. van Blommestein.

Fellows

I.J.A. Brackley, K.R. Noble.

Members

K.S. Youngman.

Members who were reinstated

Reinstated as a Member

C.P. Brits.

Reinstated as Associates

A.C. Durant, S. Ilhan, T.D. Meintjes, T.D. Mokaila, T.E. Mushi, J.J.J.P. Pretorius, M.M. Sekhokoane.

Reinstated as a Fellow

N. Schoeman. ♦

International mineral resources / reserves reporting template*

A major step forward in ensuring transparency for mining investors everywhere

The current commodities boom is creating an unprecedented interest in the mining industry. This acts as a reminder of the need for clear and unambiguous reporting of the mineral assets that are the basis for the industry—mineral deposits. Estimates of the size and quality of mineral deposits are known as ‘mineral resources’ and ‘mineral reserves’.

‘High quality reporting is particularly important for the mining industry because, unlike many other industries, knowledge of its fundamental assets is always imperfect,’ said CRIRSCO Co-Chairman, Pat Stephenson. ‘This is why mineral resources and mineral reserves are estimates, not precise measurements. Given this imperfect but inevitable state of affairs, it is essential that the industry communicates the risks associated with investment effectively and transparently in order to earn the level of trust necessary to underpin its activities.’

CRIRSCO (the Committee for Mineral Reserves International Reporting Standards), a committee of the National Mineral Reserve Reporting Organizations of Australia, Canada, Chile, South Africa, USA, UK/Ireland and Western Europe, is proud to contribute to the maintenance of this high quality of reporting by launching the **CRIRSCO International Reporting Template**. The International Reporting Template, now publicly available for the first time, may be freely downloaded from CRIRSCO’s new and improved web site at www.crirSCO.com.

The International Reporting Template is a document that draws on the best of the CRIRSCO-style reporting standards, the JORC Code (Australasia), SAMREC Code (South Africa), Reporting Code (UK / Ireland / Western Europe), CIM Definition Standards and Guidelines (Canada), SME Guide (USA) and Certification Code (Chile). These reporting standards are recognized and adopted worldwide for market related reporting and financial investment. The International Reporting Template will, as a consequence, be of

great value to any country wishing to develop its own CRIRSCO-type reporting standard, as has occurred in Chile and Peru and as is currently happening in the Philippines.

The template is also being used as the basis for discussions that CRIRSCO is having with international organizations responsible for global harmonization of accounting standards, as well as reporting in associated industries such as oil and gas. These include the International Accounting Standards Board, the United Nations Economic Commission for Europe and the Society of Petroleum Engineers.

‘The International Reporting Template is not intended as an international reporting code per se, and will not supersede the existing national reporting standards,’ said Mr Stephenson. ‘Rather it encapsulates the content of these standards for the benefit of the international mining industry and its various stakeholders. It will be a ‘living document’ that will be continuously updated and improved as new national codes and guidelines are developed.’

This first public issue of the CRIRSCO International Reporting Template is dedicated to Mr Norman Miskelly OAM, who led the organization enthusiastically and energetically from its inception until his untimely death in 2005. Norman, a man of great personal charm and integrity, dedicated a large part of his life to improving the standards of reporting by the mining industry, firstly within Australia (for which he was awarded the Order of Australia Medal in 2002) and later on the international stage. He was highly regarded by all his friends and colleagues and, while he is sadly missed, his legacy will live on. ◆

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