

Annual report

FOR THE YEAR ENDED 30TH JUNE 2009

Council for 2008/2009

President

A.M. Garbers-Craig

President-elect

J.C. Ngoma

Vice-presidents

Senior

G.V.R. Landman

Junior

J.N. van der Merwe

Immediate Past-President

R.G.B. Pickering

Honorary Treasurer

J.A. Cruise

Members of Council

D.Z. Botha*
D. Campourougrou
F. Cawood####
M. Cole*
J.A. Cruise
A. du Plessis
J. du Plessis
M. Dworzanowski
P.H. Ferreira
M.F. Handley###
R.T. Jones
P.J. Knottenbelt**
G.V.R. Landman
A.S. Macfarlane
A. McKenzie##
M.J. Mothomogolo
M. Motuku*
M. Mthenjane*

A.F. Mulaba-Bafubiandi**
J.C. Ngoma
R.G.B. Pickering
R.C.D. Phillis*
J.L. Porter
M.K.C. Roberts
C. Smith##
G.L. Smith
D. Tudor#
M. Valenta***
T. van den Berg****
P. van der Linde*****
J.N. van der Merwe
P.J. van der Plas
D.J. van Niekerk
J. van Zyl Visser
D. Walters#####

** Representing non-corporate members on Council

*** Observer MMMA

**** Observer AMMSA

***** Observer SACMA

Observer SACPS

Observer GSSA

Observer SANIRE

Observer IMSSA

Observer MVSSA

Branch Chairmen

Bushveld Branch	C.A.F. Sweet
Botswana Branch	J. Arthur
DRC Branch	E. Lwamba
Johannesburg Branch	M. Woodhall

Namibian Branch
Pretoria Branch
Western Cape Branch
Zambian Branch
Zimbabwean Branch
Zululand Branch
** Deceased*

Vacant
T. Mahlangu
D. Deglon
S.C. Mulenga
Vacant
I.J. Walton*

Past-Presidents serving on Council

N.A. Barcza	S.J. Ramokgopa
R.D. Beck	M.H. Rogers
J.R. Dixon	D.A.J. Ross-Watt
F.M.G. Egerton	T.R. Stacey
H.E. James	W.H. Van Niekerk
R.P. Mohring	R.P.H. Willis

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 Southern 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: A.M. Garbers-Craig

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*
- *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*

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- ▶ *undertakes to prepare and publish career guidance brochures, bursary handbooks, audiovisual and video programmes, optional school curricula material, etc., and participates in activities 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 Southern 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

A.M. Garbers-Craig, Chairman

N.A. Barcza	M.H. Rogers
R.D. Beck	D.A.J. Ross-Watt
J.A. Cruise	G.L. Smith
J.R. Dixon	T.R. Stacey
F.M.G. Egerton	J.N. van der Merwe
R.P. Mohring	D.J. van Niekerk
R.G.B. Pickering	W.H. van Niekerk
S.J. Ramokgopa	

Membership

The SAIMM membership comprises 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.

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:

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Table 1

Summary of new applications and membership movements for 2008/2009 and comparison of membership grades and total membership 2008/2009

Membership grade	Members July 2008	New members	Transfers in	Transfers out	Reinstatements	Resignations	Deceased	Struck-off	Net gain/(loss)	Members June 2009
Honorary Life Fellow	38	0	0	0	0	0	1	0	1	37
Honorary Fellow	4	0	0	0	0	0	0	0	0	4
Life Fellow	11	0	0	0	0	0	1	0	-1	10
Fellow	419	4	20	9	1	4	1	4	7	426
Retired Fellow	143	0	9	0	1	9	7	0	-6	137
Life Member	1	0	0	0	0	0	0	0	0	1
Member	813	144	15	19	3	18	2	35	88	901
Retired Member	96	0	7	0	0	2	0	2	3	99
Associate	759	148	31	23	4	22	1	75	62	821
Retired Associate	12	0	0	0	0	0	2	0	0	12
Student	857	207	0	31	0	0	0	0	176	1033
Company Affiliate	148	2	0	0	0	2	0	5	-5	143
Total	3 301	505	82	82	9	57	13	121	323	3 624

- 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

S. Carthy

P.J. Knottenbelt

A.F. Macfarlane

L. Petrick

B. Prout

M.K.C. Roberts

P.J. van der Plas

Mentoring

The purpose of the Career Guidance and Education Committee is to promote the mining industry through the dissemination of information to attract quality candidates for engineering careers and to retain and develop engineers and professionals already working in the industry.

Goals achieved

In order to enable retention and further development of good talent in the industry, the mentoring programme has been further developed during the year. The programme was promoted at branch events. An additional goal of the committee was the promotion of the mining industry in order to inform wider society, but especially scholars, about the industry and its career opportunities. An interactive CD was developed to transfer information to scholars about the different disciplines available in the mining industry. In addition, information about career paths, study opportunities, and financing of studies amongst others are included in the CD. The CD will be distributed to science and career guidance lecturers with the aid of sponsorship money received from industry. The committee has started with a best practice for graduate development programme.

1.3 Promotion of the SAIMM

Portfolio holder: A.M. Garbers-Craig

Despite the global financial crisis that started in the second half of 2008, the SAIMM has had a very good year, with its membership increasing to a record number of 3 624. It is 115 years since its inception and the SAIMM is still vibrant and going strong.

The SAIMM continuously strives to provide exceptional quality service to its members, anticipate their needs and promote their interests, continually strengthen its image as a dynamic organization and perform its commitment towards its members and the mining and metallurgical industry in a professional manner. This past year we have lived up to these convictions, and focused on the following:

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- ▶ Special attention was given to strategies to stimulate training, development and the supply of skills in mining and metallurgy. This was done on four levels, namely scholars, students at tertiary institutions, people who have just started their careers, and people who are established in their professions. The Career Guidance and Education Committee completed a very stimulating interactive DVD at school level, whereby scholars are inspired to select careers in the minerals and metals sector of the Southern African economy. Students at tertiary academic institutions were financially supported by the SAIMM through the Scholarship Trust Fund and through free membership. They were also drawn into the mining and metallurgical community through technical events such as the Student Colloquium, free subscriptions to the *Journal* of the SAIMM, and student prizes whereby technical excellence is recognized. Branch events of specifically the Johannesburg, Pretoria and Western Cape branches were very well attended by students. A Facebook profile was also established that is well received by students. People who have just started their careers benefited from our mentorship programme, as this programme has slowly grown to eight active mentee - mentor relationships. Our conferences (national and international), colloquia, schools, workshops and technical visits (the majority of which were CPD approved events) were very successful this year, and the support from both delegate numbers and sponsors exceeded our expectations.
- ▶ The interests of our members in Southern Africa were promoted through a range of branch activities. All the established branches, i.e. Johannesburg, Pretoria, Bushveld, Zululand, and Western Cape, were active, and their events were varied and well attended. Branch activities in Zambia and Botswana are picking up. The Base Metals Conference 2009 in July was the first big event for the Botswana branch. Branch activities in Namibia, Zimbabwe and the DRC have unfortunately slowed down partly due to the global economic situation.
- ▶ We continued to promote our Institute and communicate with our members through our *Journal* and website. The SAIMM *Journal* has again had a very successful year, with a substantial increase in advertising revenue over the past year. A new 'corresponding members' feature was started in the *Journal* in which they report on interesting industry developments and news in their countries of residence.
- ▶ During the past year Richard Beck, our editorial consultant, moved to Cape Town and was replaced by Dave Tudor. Our sincere thanks go to Richard Beck for his very valuable contribution to the *Journal* over many years.
- ▶ The website of the Institute had a facelift and was integrated with the new IT system. Adverts have also been placed on the website for the first time. This feature is, however, still in an experimental phase.
- ▶ Negotiations with OneMine.Org, the online global mining and minerals library, on alternative funding mechanisms is continuing, as the SAIMM supports the OneMine

initiative but is opposed to SAIMM members paying membership fees.

- ▶ The SAIMM guarded the professional interest of our engineers and technologists by being part of the group of voluntary associations that lobbied against the controversial proposed Built Environment Professions Bill. This bill was subsequently withdrawn by the Minister of Public Works. The SAIMM has continued its strong representation at ECSA through the Professional Advisory Committee on Mining Engineering
- ▶ The SAIMM has strengthened its ties with the AusIMM (The Australasian Institute of Mining and Metallurgy), and established a reciprocal agreement with them.
- ▶ The SAIMM is continuing its representation on the SAMREC/SAMVAL Committee (SSC).

The volunteers and SAIMM secretariat have worked hard to make this year a very successful one. A special word of thanks to the office bearers, council members, members of the various committees, our manager and the secretariat for their dedication and effort. It was a very satisfying year, and with your enthusiasm and drive the SAIMM will without a doubt go from strength to strength.

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
F.M.G. Egerton	T.R. Stacey

Awards and Adjudication Committee—Metallurgy

M. Dworzanowski, Chairman

R.D. Beck	R.L. Paul
A.M. Garbers-Craig	

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	

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1946	J. van N. Door C.J. Gray Jas Gray J.V. Muller John Orr	T.K. Prentice R.S.G. Stokes S.J. Truscott G.A. Watermeyer 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	
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	

2006	T.R. Stacey
2007	No award
2008	E.U.H. Sachse

In 2009 the SAIMM has decided to award a Honorary Fellowship to Mr Ian Walton for his outstanding service and dedication to the SAIMM over many years. This award is given posthumously as Ian passed away in July 2009. Ian was the chairman of the Zululand branch of the SAIMM since 2000 and part of the organizing committee for several very successful international industrial minerals conferences held in KZN.

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
2006	G.T. van Rooyen
2007	D.H. Laubscher
2008	T.R. Stacey

This year the award is made to C.J. Fauconnier 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:

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Year to

June	Member	
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* E.F. Laschinger* E. Margo	J.W.V. Mortleman* K. Rood* A. Siff* O. Weiss*
1935	O.B. Swallow*	
1936	O. Deane* T.L. Gibbs* R.C.J. Goode* F.G. Hill* D.M. Jamieson* D.J. Rogers*	A.H. Mokken* H.L. Munro* R.M.F. Seawright* A.C. Pigott* J.S. van Zijl* L. Walter*
1937	W. Bleloch* L.A. Bushell* K.W. Findlay*	J.J. Klein* C.D. Storrar
1938	V.C. Barnes* E.T.S. Brown* R.S. Cooke* J.K.E. Douglas A.L.A. Forder*	C.A. McKechnie* J.A. Nixon E. Popplewell* C.G. Sowry* E.W. Thiel*
1939	G. Armstrong-Smith* D.E.R. Ayres* E.H.D. Carman W.G.H. Jackson* T.A. Newman	R.S. Pearson* D.C.J. Squirrell* R.F.J. Teichmann* I.S. van Eyssen* S.J. Venning*
1940	L.D.C. Bok* A.W.L. Brereton*	G.D. Gettliffe* G.G. Stanley*
1941	A.H.H. Davison* D.J. Forder A.R.C. Fowler* H.F.W. Ketelbey* J.D. McNamara* T.F. Muller*	D. de V. Oxford* E. Pavitt A.C. Petersen* E.R. Rudolph P.W.J. van Rensburg*
1942	R.E. Burnton* R.C. Espley-Jones N.M. Hayne* R.T. Naudé*	O.L. Papendorf* V.O. Steed J.E. van Leeuwen* W.C. Walmsley* R.P. Plewman*
1943	D.J. Molony* J.D. McMorran	
1944	A.F. Dick R.B. MacGillivray* L.J. Prince* J.F. Reid*	V.M. Reinecke* A.S. Swartz A.H. Taute* P.B. Weehuizen*
1945	J.L. Curtis* E.T. Pinkney	K.E. Steele*
1946	W.I. Spence	
1947	G.H. Grange	J.D. Pollard

	W.B. Howe J. Marr-Levin C.J. Parr*	V.C. Robinson* A.N. Shand* G.R. Still
1948	D.F. Foster M.H. Grusd* P.A. Laxen* G.Y. Nisbet	J. Pope* N.A. Stacey J.A. Tyser
1949	G.P. Bennett J.F. Curtis* O. Davel	J.P. Hugo D.A. Immelman
1950	D.F. Grieve B.E. Hersov D.G. Maxwell	R.P. Plasket* V.C. Ward
1951	D.G. Krige B.H.L. Leach M.J. Martinson W.D. Ortlepp*	N.C. Pope W.T. Ruhmer T. Zadkin*
1952	A.N. Brown M.J. Deats W. Lurie N. Martincevic	E.P. Mortimer D.J. Murphy H.J. Stucke R.G. Williams G.D. Tainton
1953	B.G. Fordyce G. Langton* A.A. Sealey	J. Uys* N. Zolezzi
1954	R.C. Bertram	R.B.W. Wiggill
1955	R.A.O. Chelius* S.P. Ellis C.T. Fenton	G.R. Parker W.B. Parker
1956	G.A. Brown D.R. Chelius M.F. Dawson L.M. Falcon	M.A. Madeyski D. Rankin G.C. Thompson
1957	K. Babich J.J. Blom R. Campbell	A.M. Edwards R.C. More O'Ferrall N.C. Officer
1958	J. Dear R.H. Swan	B.S. Tatterson P.J. van der Walt

* Deceased since becoming members of the club

South African National Committee on Tunnelling Award (SANCOT)

The Alec Wilson Memorial award was awarded for the best tunnelling paper by a South African worldwide or presented in South Africa. The award of R1 000 is sponsored by GOBA (Pty) Ltd. This award was presented at the *SAIMM Shotcrete for Africa Conference* held 2-3 March 2009

The 2008 prize goes to W.D. Ortlepp*, W.C. Joughin, A.K. Ward, and J. Thompson for their paper entitled: 'Reinforcement support of concrete shaft lining in Westonaria formation lava in the Ezulwini vertical shaft system', as published in the proceedings of the *2008 Ground Support*, held in Cape Town, South Africa.

* Deceased

Gold and Silver Medals

Papers published in the *Journal* from March 2008 to February 2009 by members of the Institute were considered for medals.

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Gold Medal

Gold medals are awarded for papers that are of a world-class standard, and judged to be publications that will become key reference in their mining or metallurgy field in the future.

A Gold Medal is awarded to:

I. Canbulat and J.N. van der Merwe, for their Transaction paper published in the February 2009 issue of the *Journal* entitled 'Design of optimum roof support systems in South African collieries using a probabilistic design approach'.

Silver Medals

Silver medals are awarded for papers that make a major contribution to the professions of mining and metallurgy and to the prestige of the Institute.

There was no Silver Medals awarded this year

Student Prizes

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

The prize winners were as follows:

University of the Witwatersrand

Mining	M. Hand
Metallurgy	M. Moropeng

University of Pretoria

Mining	A. Angelov
Metallurgy	D.B. Swanepoel
Student Dissertation	M. Harris

University of Johannesburg

Mining	J. Winnan
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University of Cape Town

Chemical Engineering	T. Richards
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University of Stellenbosch

Process Engineering	M. Rama
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Cape Peninsula University of Technology

Chemical Engineering	M. Chowdhury
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The prizes for the universities of Cape Town and Stellenbosch, and the Cape Peninsula University of Technology were awarded at the Western Cape Branch Annual General Meeting on 6 August 2009.

1.5 SAIMM Scholarship Trust Fund

M.H. Rogers, Chairman	
R.P. Mohring, Vice-Chairman	
R.D. Beck	F.M.G. Egerton
J.R. Dixon	

Donations for the year totalled some R174 000 received from Company and individual members.

Awards to tertiary institutions totalled some R 329 000 funded from retained income and donations.

The Trustees take this opportunity to thank donors for their support and to encourage both individual and Company members to continue to support this worthy cause. Donors are reminded that contributions are tax deductible and to generously support students in need.

The funds are used to support needy students and to assist the tertiary institutions in providing necessary educational material for the students.

The Trust's goal is to ensure that no deserving prospective student or student with potential is denied the opportunity to follow a career in the minerals and metals industry as a technically qualified graduate in mining metallurgy or minerals processing because of a shortage of finance.

1.6 SAIMM Gold Medal Awards

The South African Institute of Mining and Metallurgy was 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.

1.7 Banquet Committee

J.A. Cruise, Chairman	
R.D. Beck	R.P. Mohring
J.R. Dixon	R.G.B. Pickering
A.M. Garbers-Craig	M.H. Rogers

In this year of global economic meltdown, the holding of the annual banquet hung in the balance. Many firms who had supported the banquet in the past, indicated that they might not have been able to support it this year as they were closing down operations and retrenching staff. With belt-tightening throughout the mining industry, it was considered insensitive to be seen to be attending a ostentatiously lavish banquet. To cancel the banquet at a late stage would have cost the Institute a substantial amount in cancellation fees. In addition, the ripple effect down the line of cancelling the banquet would have a deleterious effect on the employment of waiters and others in the kitchen. Thus, it was decided to proceed with holding the banquet, but on a much reduced scale—the 'Austerity Dinner'.

The theme of the Austerity Dinner was South African cuisine. The starters were Blikkiesdorp biltong and mango salad with Pofadder pap balletjies, Chatsworth chilli dip and Mpumalanga peppadews. The fish dish was Okavango tilapia medallion. The meat and chicken dishes were Bosveld beef bredie, Kruger Park kudu potjie and Tshwane tagine spicy chicken with Mafikeng morogo and Bloemfontein roasted butternuts as vegetables. The sweets were Marico malva pudding and Vryburg fruit platter. The free-and-easies were Driesisters koeksusters followed by egte boere koffie kapital. A prize of a bottle of red wine was offered to anyone who could spot the deliberate mistake in the spelling of a word in the menu. Although a further seven mistakes were discovered in the menu, the deliberate mistake remained elusive.

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The after-dinner address was given by Dr Wolfgang Heinz who drew parallels between business and animal behaviour, illustrated by wildlife slides. In these days of global meltdown, Dr Heinz presented means of survival which was not new as it appeared all the time in nature. He ended enumerating his 'Ten Commandments for Losing'.

As our President is an academic, some of the guests of honour were heads of mining and metallurgical departments at Gauteng universities. Office bearers of the International Tunnelling Association, who had just held their quarterly meeting in Johannesburg, also attended the banquet.

2. Technical Meetings

Portfolio Holder: G.V.R. Landman

2.1 Technical Programme Committee—Mining

M.J. Mothomogolo, Chairman

J.C. Ngoma, Vice-Chairman

A.M. Garbers-Craig, Metallurgy Representative

A.M. Clegg**	J.C. Ngoma
J.A. Cruise	K.C. Owen**
J. du Plessis*	R.C.D. Phillis*
F.M.G. Egerton	R.G.B. Pickering
P.H. Ferreira	J.L. Porter
C. Fredericks	M.H. Rakale
C. Frederricks*	B.C. Rip**
M. Handley	D. Rungan
R. Hull*	M. Seeger**
G.V.R. Landman	G.L. Smith
D. Limpitlaw*	T.R. Stacey
A. McFarlane	F.W. Taylor**
W. Morrel*	J. Truter**
M.P. Mullins**	H.G. Waldeck
D. Munro*	J.N. Wallington*
C. Muswingini*	R.P.H. Willis

*Co-opted members

**Resigned

The passing financial year has seen the Mining TPC managing to organize only seven events. This was mainly due to a slowdown in the resources sector at the end of 2008, which was caused by a crash in world markets. The events that were held were mostly successful, achieving attendances higher than break-even levels. The 'Platinum in Transformation 2008'

conference, which is a series of bi-annual events held at end of 2008, was a major success by attendance, sponsorship packages sold and, most importantly, the quality of papers.

The Energy conference that was held as a response to the power crisis that hit the country at the beginning of 2008 was also a major success and it was even given some airtime in the national media and scientific news space. The Johannesburg branch continued to host many topical sessions on Thursdays and this has become a calendar item for people in and around Johannesburg who are in the minerals industry. The normal end of year student colloquium was spiced up with prize money for 'the best paper in technological innovation' and this made the event exciting as we saw a number of high quality presentations by students from UJ, Wits, Potchefstroom, Vaal Triangle and Tukkies.

We have continued and are going to engage other associations in the minerals industry to co-host events and also ensure there is no clash of conferences and topics. A typical example of this is we have engaged the Association of Mine Managers and asked them to co-host a mine safety conference later in 2009. We foresaw the synergies in this and already this looks to be hugely successful event, with so much interest shown.

The current downward cycle in commodity prices and markets has encouraged us to look at innovative ways to continue with our objective of collating and disseminating information in the minerals industry and to our members through conference and colloquia. We have started to look at hosting a 'schools series' for the 2009/10 year that will be held in conjunction with institutions together with subject matter specialists. The idea is that as companies are reviewing budgets there will be less spent on sponsoring SAIMM events. Also, this is a time when more people are looking to improve their skills, hence the format of a few day schools where people will get CPD points.

As we had planned the previous year, having extra people on the committee will assist in many ways to increase the industry network reach for SAIMM to ensure the success of these events. The attendance at meetings has picked up again and this is pleasing because we have more people to volunteer for sub-committees.

In a quest to further integrate SAIMM into associations within the industry, there is continued liaison with the GSSA, MVSSA, SANIRE and the SANCOT, amongst others. We are looking at holding certain events jointly to exploit synergies

Schedule of Mining/Metallurgy Technical Conferences, 2008/2009

Type of Event	Date	Title	Convenor	Attendance
Conference	26 August 2008	Power Crisis	R. Jones	167
Conference	5–8 August 2008	Surface Mining	G. Landman	130
Conference	8–12 September 2008	Mining in Africa	P. Ferreira	132
Colloquium	23 October 2008	Student Colloquium	M.J. Mothomogolo	331
Conference	6–9 October 2008	Platinum in Transformation	M. Rogers	458
Symposium	2–3 March 2009	Shotcrete	A. Boniface	145
Conference	11–12 June 2009	Shaft Sinking & Mining Contractors 2009	M.J. Mothomogolo	137

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where possible and also synchronize calendars to optimize delegate attendance at events. There are also cross-representations of each on the other committee.

The most successful events in terms of delegates attended and 'excess over the expense' were the 'Platinum in Transformation 2008' and the 'Power Crisis' events. The Power Crisis event was organized in a shortest time of six months but because of national interest in the topic, the attendance was high. This also shows a need by the committee members to pick topics in the industry that are current and affect most people as these will be drawcards and give good delegate turnouts.

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

2.2 Technical Programme Committee – Metallurgy

R.T. Jones, Chairperson

M. Dworzanowski, Vice-Chairman

T. Claassens

A.F. Mulaba-Bafubiandi

P. den Hoed

R. Suss**

G.C.P. Donoghue

W. van der Merwe

P.A.P. Fouche

P.J. van der Plas

A.M. Garbers-Craig

J. van Huyssteen**

**Co-opted members*

***Resigned*

The Metallurgy Technical Programme Committee has supported a good selection of topical technical conferences for the continuing education of metallurgical professionals throughout the year. These events provide an important forum for the efficient dissemination of information about new processes and techniques for improvements in the industry, as well as promoting networking between industry professionals working in the metallurgical field. SAIMM conferences generally receive accreditation from the Engineering Council of South Africa (ECSA) for the requirements of continuing professional development (CPD).

Attendance figures varied across an extremely wide range this year, depending on the nature of the event, from less than 30 for a highly specialized topic, to 450 for a well-established multi-day international conference. Sponsorship from industry has continued at a very significant level, although slightly lower figures were seen for some conferences because of the downturn in the economy. The support of sponsors is highly appreciated.

Formal proceedings of refereed papers were published for the larger conferences (usually in book form with an accompanying CD). Some events opted to have a less formal approach, with presentations only, in order to accommodate up-to-the-minute information. There seems to be a place for both of these approaches. Peer-reviewed proceedings are very important to the academic community, although industrial presenters often appreciate the less time-consuming commitment of the presentations-only style. Most conference proceedings are also fully published on the SAIMM website, in order to make the information searchable and available to as wide an audience as possible. SAIMM has continued with the

progressive approach of making their website publications available free of charge to the general public, in recognition of the time and effort freely contributed by authors. The high quality of SAIMM's refereed publications was recognized by the South African Department of Science and Technology (DST), and they have formally requested SAIMM to coordinate and publish the proceedings of the Advanced Metals Initiative (AMI) conferences in the future.

The 2008/2009 year has included a variety of events, and some highlights are mentioned below.

A Tomographic Symposium was held in Johannesburg during July 2008. The main aim of the symposium was to introduce the industry to possible metallurgical applications of the fairly new field of tomography. A major proponent of this technology from the UK was invited to lead the discussions. A number of local users of the technology also presented their work. The event was attended by 27 enthusiastic participants, with about a quarter of those coming from outside South Africa.

The Western Cape Branch of the SAIMM held their 26th annual Mineral Processing Conference & Workshop in Cape Town in August 2008. This well-established event features close interaction between the local universities and industry.

SAIMM was supported by the South African Institute of Electrical Engineers (SAIEE) in holding an event at Mintek in Randburg during August 2008, entitled 'A constructive response to the power crisis'. Given the severity of the impact of the power crisis and 'load shedding' on the country, and on the mining and metallurgical industry in particular, it was necessary to arrange a conference in a very short time, so that this would be relevant and make a difference. Our industry has responded to the crisis with a number of constructive and creative initiatives, and this information needed to be shared among companies, and also be made known to the public. The one-day event was well attended by 167 delegates, and had a number of high-profile speakers, including representatives from Eskom, Chamber of Mines, and NERSA. The topical subject matter attracted much attention in terms of press coverage as well as a number of radio interviews.

During September 2008, a short metallurgical event was held in conjunction with the Electra Mining exhibition. The presentations were largely commercial in nature, and attendance was disappointing, even though the cost of attending was minimal. Future events will not follow this format again.

A symposium on 'Pelletising and Sintering in the Ferroalloy and Ironmaking Industries' was held in September 2008, and was well supported by sponsors. This successful event was attended by 72 delegates.

The Third SAIMM International Platinum Conference, entitled 'Platinum in Transformation' was held at Sun City in October 2008. This series of biennial conferences constitute SAIMM's largest events. This year's conference was attended by 450 delegates, and supported by 27 sponsors. The platinum conference is well supported by the geological, mining, and metallurgical communities, with numerous papers from each of these disciplines presented in parallel sessions. This year's event coincided with the worst of the crash in the platinum price, yet reflected many positive developments in the industry, including much coverage of new process alternatives for the treatment of UG2 ores.

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The annual Student Colloquium was held during October 2008 at the Mintek Conference Centre and was attended by about 150 students (although 277 students had registered to attend). This event is subsidized by SAIMM from the surplus funds from other events, in support of the various tertiary educational institutions in Johannesburg and Pretoria. This event continued to provide a showcase for students to present their final-year projects. An award of significant value was given for the most innovative paper.

The Industrial Fluidization South Africa conference was held in the Cradle of Humankind during November 2008. The IFSA conference was first held in 2002, and has been held every three years since then. It is supported by the CSIR, Mintek, Sasol Technology, Eskom, Exxaro Resources, Anglo Research, SAIMM, and the universities of Pretoria and KwaZulu-Natal. The core focus of the conference is the industrial application of fluidized-bed technology in fields such as the treatment of minerals, energy generation/conversion, and petrochemicals.

The Southern African Hydrometallurgy conference was held in February 2009, and had an excellent selection of technical papers published as a high-quality peer-reviewed set of proceedings. The bleak condition of the economy saw the closure of some plant operations in Zimbabwe, and therefore some cancellations. However, this conference showed that if there is strong technical content, the people will come. The two-day conference was attended by 130 delegates, and was followed by a technical visit.

The Sulphur and Sulphuric Acid 2009 Conference was held in May, at Sun City as the event had grown in size and stature since the previous occasion. The conference was well supported, and was attended by 138 delegates.

Mintek, South Africa's national mineral research organization, celebrated its 75th anniversary this year. To mark this significant event, a two-day metallurgical conference was held at Mintek in June 2009, showcasing innovative technology used around the world, presented by top international speakers, including past and present Mintek employees, who have made their mark in industry. Technical presentations focused particularly on the core technologies supported by Mintek: minerals processing, pyrometallurgy, and hydrometallurgy, as well as newer areas such as nanotechnology. 'Mintek 75—A celebration of technology' was attended by 260 people.

In addition to the events actually organized by the SAIMM, there was also SAIMM participation in the organizing committees of a number of overseas international events, as well as co-sponsorship of events (which also entails publicizing the events to SAIMM members). Noteworthy among these was the European Metallurgical Conference, this year held in Innsbruck, Austria, in June 2009. This was organized by GDMB, the German equivalent of SAIMM.

The TPC-Metallurgy committee had the support of a group of highly capable members, and this resulted in a number of worthwhile technical events being provided for the benefit of the metallurgical community of Southern Africa. The conference section within the SAIMM secretariat was greatly strengthened during the year with the addition of Jackie van der Westhuizen and Raymond van der Berg, and they and their colleagues are to be commended for their highly professional approach in handling conference arrangements, which has resulted in many favourable comments from those attending.

2.3 South African National Committee on Tunnelling (SANCOT)

J.A. Cruise, Chairman

A. Boniface	R.G.B. Pickering
G.N. Davis	J.L. Porter
P.H. Ferreira	E.J. Sellers
A.L. Griffiths	T.R. Stacey
M.E. Lebitsa	F.B. Stevens
E.A. McCarter	H.J. Tluczek
M. Mohlabane	A. Wilson

SANCOT had an active year with a one-day colloquium on the Gautrain, an evening presentation on mechanized mining, a two-day colloquium held in Ladysmith with a site visit to the Ingula Pumped Storage Scheme, and an international conference on shotcrete.

The one-day Gautrain colloquium was held at the Military Museum conference centre, with the topic being the latest developments on the Gautrain high-speed rail project. The evening presentation was also held at the Military Museum in conjunction with the Johannesburg branch of the SAIMM. It presented the latest developments in underground mechanization of mining, specifically with regard to ultra low profile machines.

The Ladysmith colloquium, held in the Ladysmith Hotel, was well attended and included a 95-year-old delegate! The colloquium covered the latest progress on many projects, inter alia the Durban Harbour entrance widening, the Ingula Pumped Storage Scheme, and the Gautrain project, as well as the forward planning for future pumped storage schemes and Phase 2 of the Lesotho Highlands Water Scheme. The following day, despite heavy rains which made access problematical, there was an underground site visit to the Ingula Pumped Storage Scheme in the Drakensberg mountains.

In March, in collaboration with the International Tunnelling Association (ITA), the international conference 'Shotcrete for Africa' was held at the Misty Hills Conference Centre outside Johannesburg near the Cradle of Humankind. The conference was opened by the President of the ITA, Mr Martin Knights, and there were presentations by the Norwegian Mentor of the ITA Working Group on Shotcrete, Mr Eina Grov, the immediate Past President of the American Shotcrete Association, Mr Dudley Morgan, the Past President of the ITA, Mr Harvey Parker, and Ms Catherine Larive of the French Tunnels Study Centre. What was especially pleasing was the number of students who attended the conference and this was favourably commented on by the overseas guests.

SANCOT was well represented at the annual ITA Conference, which this year was held in Budapest. The SANCOT committee members who attended were Messrs Cruise, Boniface and Tluczek. They actively contributed to ITA Working Groups as well as representing South Africa at the General Assembly.

3. Publications

Portfolio Holder: J.N. van der Merwe

R. Beck, Chairman

F.M.G. Egerton	R.E. Robinson
A.M. Garbers-Craig	G.L. Smith
M.F. Handley	T.R. Stacey
R.T. Jones	R.P.H. Willis

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3.1 Journal

Monthly issues were again published. Eighty papers were published, which is similar to the previous year (78). A student issue was published in April, which contained papers written on project work carried out in partial fulfilment of their degrees. Special Issues were published in January '09 (Platinum) and June '09 (Hydrometallurgy) with papers from SAIMM conferences. In March '09, a special issue was published based on a series of conferences held in South Africa, Australia and Canada addressing strategic versus tactical issues for the mining Industry.

46 transaction, 24 Journal, 7 student papers and 3 technical Notes were published during the year. The numbers of transactions, which are peer reviewed and represent the peak of publishing technical quality, were a little down on last year (55). There was again an increase in papers submitted to the *Journal*, with 50 papers rejected of which 5 were from Southern Africa. 41 papers published covered mining and 31 metallurgical subjects. There were more general papers published this year (6) covering subject such as the shortage of manpower and technical skills in the Industry, safety and the SA Mineral and Petroleum Resources Draft Royalty Bill.

Although times for the industry have been tough, advertising increased by 18% over last year, breaking the R1million rand mark. Barbara Spence of the Avenue Company and her team are to be congratulated on their good performance. Other publication costs were in line with budget.

Professor Robbie Robinson produced his thought provoking *Journal* comments for another year, which are always well received and we are very grateful for them.

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 Abigail Lawrence, the Publications coordinator for her hard work and the members of the Publications committee for their work and advice, and all the staff at the Secretariat for their input during the year. Finally, thanks go to all those who have given of their time as referees, without whom the standard of the *Journal* could not be maintained.

I moved to Cape Town at the end of January, which has made it difficult for me to continue as the editorial consultant and anyway after 9 years it is time for a change of editor. We are fortunate that Dave Tudor has stepped up to take my place and I wish him every success in this role.

There is no progress to report on possible books for publication.

4. Regional Development

Portfolio Holders: J.C. Ngoma
J.N. van der Merwe

J.C. Ngoma, Chairman
M. Dworzanowski M.J. Mothomogolo

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.*

4.1 SAIMM Branches

4.1.1 Botswana Branch

J. Arthur, Chairman

No report was submitted.

4.1.2 Bushveld Branch

C.A.F. Sweet, Chairman

Although we had a number of activities planned, the economic situation required that we devote a lot of time to our own issues and the proposed hosts asking that we plan our visits for a later time.

For the new year visits are scheduled to Tharisa Minerals, a chrome and platinum operation just coming into production and a visit to a dimension stone mine to see the cutting of large blocks of granite safely and efficiently. A possible visit to a ferrochrome smelter is being negotiated at the moment.

4.1.3 Johannesburg Branch

M. Woodhall, Chairman

G.C.P. Donoghue	G. Oliver
V.G. Duke	X. Pan
C. Heili	J. Porter
M. Mabaso	G. Ralph
S. Mashinini	K. Richardson
M. Mokgojwa	U. Sachse
M. Mthenjane	W. Taylor
J. Ngoma	

Introduction

As chairman, I am pleased to report on the activities of the Johannesburg Branch of the SAIMM for the period July 2008 to June 2009.

The year has been an eventful one for the industry and the effects of changing fortunes were felt directly by the Branch. Planned events were affected by presenter willingness and especially by the availability of sponsorship.

I am pleased to report, however, we ended the year on a positive note with a record attendance in response to the recent AngloGold Ashanti presentation

Committee

Membership of the committee has grown due to expressions of interest from several sources, and in particular the introduction of younger blood is most pleasing. We have good exposure to many aspects of our local industry and impact further afield in Southern Africa.

Events

The events shown below indicate wide coverage of the mining value chain from exploration to mine closure and across several mineral types. The variety is testament to the committee's ongoing commitment and has drawn varied audiences throughout the year, generating good discussions and networking opportunities.

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Past year technical presentations: Johannesburg Branch of the SAIMM: 2008/2009

Date	Title	Presenter	Sponsor	Responsibility	Venue
2008-09-18	TWP Matomo Process Plant (TMP)	G. Montgomery	TWP	J. Porter	Military Museum
2008-10-16	Potchefstroom Ventersdorp Etruscan Diamond Field	N. Simon	Etruscan Diamond	M. Mthenjane	Military Museum
2008-11-06	TBMs for the mining industry	T. Boniface	Herrenknecht	U. Sachse	Military Museum
2008-12-06	Pretoria University Museum	R.S. Sandenberg	PU	G. Donoghue	Military Museum
2009-02-19	Royal Bafokeng Holdings	M. Mthenjane	RBH	M. Mthenjane	Military Museum
2009-03-19	Treatment of industrial effluent for recovery of reuseable water and by-products	J. Maree	CSIR	K. Richardson	Military Museum
2009-04-16	Mining for closure—design considerations for Areva Namibia's Trekkopje Uranium project	D. Limpitlaw	Turgis	S. Mashinini	Military Museum
2009-05-21	An Australian perspective of SA mining industry	M. Cutifani	AngloGold Ashanti	U. Sachse	AngloGold Ashanti
2009-06-18	Keaton Energy	S. Rupprecht	Keaton	V. Duke	Military Museum

Finances

With the backing of the SAIMM we have been able to limit sponsorship costs and at the same time cater for the routine support of students from both the University of Johannesburg and University of the Witwatersrand. The level of interest and participation from students is a positive enhancement to the events.

On two occasions we had a shortfall in sponsorship as a consequence of current economic conditions and the further support of the SAIMM is appreciated.

I am pleased to report a healthy pipeline of future events on our calendar.

My thanks to the SAIMM Secretariat for their ongoing, unwavering support

Technical presentations

The presentations tabled give a good indication of the active and varied participation by all.

4.1.4 Namibian Branch

No report was submitted this year.

4.1.5 Pretoria Branch

T. Mahlangu, Chairman

D. Groot

D. Gudmanz

S. Havenga

M. Matsoeni

O.T. Mothibi

K. Naidoo

B. Ndlovu

R. Raphukula

T. Vermaak

A. van der Westhuizen

It has always been the target of the SAIMM-Pretoria Branch to organize monthly seminars in conjunction with the departments of Materials Science and Metallurgical Engineering and Mining Engineering. These seminars are given by presenters from outside the University of Pretoria and the audience is principally students and lecturers of the two departments. In this current year July 2008 to May 2009, the branch managed to organize six seminars and also had the School of Minerals Sciences Research Seminar on its calendar. Although the number of seminars were fewer than the branch has traditionally organized, there were, however, very successful and topical presentations hosted. These include:

- ▶ 'How cool are refractory materials?' by Professor Andrie Garbers-Craig, the incoming President of SAIMM. The presentation by the incoming president of SAIMM has always been a fixture in our annual schedule and is often well attended and we use as the Annual General Meeting to elect new office bearers.
- ▶ CO-gas cleaning technologies for fully enclosed reduction furnaces by Mr Rudi Gottschling, of Theisen Engineering (Pty) Ltd. The presentation fused both gas cleaning theory and practical issues regarding operations of different gas cleaning systems. It was obvious that the theme of the presentation had to cater for a larger contingent of industry based participants or attendees.
- ▶ The other two seminars were presented by high profile industry personnel Christo van Loggerenberg, Head of Technology & Business Development, Kumba Iron Ore and Dr Pieter Viljoen of Africon (Pty) Ltd: Mining Sector Leader and General Manager, Special Units Director.

It has always been the strong view of the branch that we should be able to attract both quality presentations and speakers to benefit members. It is without doubt that the fewer number of seminars organized was compensated by the quality of the presentations. The branch hopes to improve on the number of seminars without compromising on the quality.

The Research Seminar for the School of Mining and Minerals Sciences is an annual event which showcases the research activities and outputs of the school to the external stakeholders. This seminar is organized by the University of Pretoria's School of Mineral Sciences and it took place on 24 October 2008 in the Sanlam Auditorium, University of Pretoria Conference Centre. The Seminar had Mr Paul Dempsey, Group Head of Metallurgy, Anglo American, as the keynote speaker and four other presentations. The topics given below illustrate the approach and typical themes of these research seminars, which cover geology, mining and metallurgical engineering with the main aim of showcasing research in the three departments of the school.

Department of Geology

Prof Andrzej Kijko, Director of the Benfield Natural Hazard Centre (Africa). Title: 'Tsunamis'

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Mini colloquia, past year events, and future planning: Pretoria Branch of the SAIMM: 2008/2009		
Date	Title	Presenter
2008-07-30	How cool are refractory materials?	A. Garbers-Craig, <i>President Elect, SAIMM</i>
2008-08-20	The iron ore story: rags to riches and then	C. van Loggerenberg, <i>Kumba Iron Ore</i>
2008-09-17	Delivery mechanisms: EPC and EPCM	P. Viljoen, <i>Africon (Pty) Ltd</i>
2008-10-15	The chrome question in the platinum Industry	C. Roode, <i>Metenco</i>
2009-03-25	Controlled chloride cracking of austenitic stainless steel	M. Raseroka, <i>Eskom</i>
2009-05-06	CO-gas cleaning technologies for fully enclosed reduction furnaces	R. Gottschling, <i>Theisen Engineering (Pty) Ltd</i>

Department of Mining Engineering

Mrs Kumesh Naidoo, Department of Mining Engineering, University of Pretoria. Title: 'Applying numerical modelling to pillar design in South African Mines—An Initial Study'

Department of Materials Science and Metallurgical Engineering

Ms Linda van der Walt, Final Year Student (sponsored by ArcelorMittal). Title: 'Investigation into the mechanism of scale formation at typical hot rolling conditions and the relationship between scale structure and subsequent pickling efficiency'

Mr Neil Swanepoel, Final Year Student (sponsored by Hulamin). Title: 'Age-hardening of the aluminium alloy EN 4017'

In conclusion, I would like to offer special thanks to the main office of SAIMM and the committee members of the branch as well as the heads of departments for both Mining (Dr Ronny Webber-Youngman) and Materials Science and Metallurgical Engineering (Professor Madeleine du Toit) for being excellent hosts for the branch. Last, but not least, I would specially like to thank the people who worked behind the scenes and really put in a special effort to keep the SAIMM Pretoria Branch alive, namely Sarah Havenga and Daleen Gudmanz.

4.1.6 Western Cape Branch

D.A. Deglon, Chairman
J.A. Sweet, Vice-chairman
S. Bradshaw, Secretary

M. Aziz	A.N. Mainza
A. Burger	J. Petersen
V. Fester	E. Thyse
J.-P. Franzidis	

Activities at the Western Cape Branch of the SAIMM focus on two aspects. The first is the promotion and support of mineral processing through the annual Mineral Processing Conference. Secondly, students are informed and encouraged to consider mineral processing as a career.

Mineral Processing Conference

The 26th annual Mineral Processing Conference, Mineral Processing 2008, was hosted by the branch from 6 to 8 August 2008 at the Vinyard hotel, Newlands. As usual, the conference provided a platform for interaction between individuals from industry and academia to share their experience and research results on a wide range of related topics. Furthermore, the conference provided postgraduate students with an ideal opportunity to present and promote their research work. The

conference was attended by nearly 200 national and international delegates, from a wide range of countries. The conference began with a one-day workshop entitled 'Water and Water Quality in the Minerals Industry' which was attended by over 60 delegates. Professor Chris Moran, Director of the Sustainable Minerals Institute (SMI), University of Queensland, was a keynote speaker at the workshop. Professor Moran, who also directs the Centre for Water in the Minerals Industry at the SMI, is a world leader in the critical area of water in mining. Professor Moran and Professor Francis Petersen were both keynote speakers at the conference. Professor Petersen recently joined the University of Cape Town as the Dean of the Faculty of Engineering and the Built Environment. The titles of professors Moran and Petersen's respective keynote presentations were 'Why be sustainable if the world is about to end?' and 'A new set of socio-economic sustainable development parameters facing the mining industry'. The conference was well attended by delegates from industry, academia as well as postgraduate students from tertiary educational institutions in the Western Cape.

Promotion and other activities

The Postgraduate Fund was launched in 2007. The Fund awards scholarships for postgraduate students to present their research at recognized international conferences. Registered postgraduate students from any of the three engineering faculties in the Western Cape (i.e. Cape Peninsula University of Technology, Stellenbosch University, and University of Cape Town) may apply. This year a scholarship was awarded to Mr Angus Morrison (UCT) to attend the XXV International Mineral Processing Congress (IMPC 2010) in Brisbane.

Close cooperation between tertiary institutions in the Western Cape are encouraged through a number of initiatives. The Western Cape branches of the SAIMM and SAICHe host an annual student evening to promote the activities of both institutes. The 2009 event was organized by Dr Aubrey Mainza from the University of Cape Town. The event was hosted on 1 April 2009 in the Department of Chemical Engineering (UCT) and was attended by almost 100 students from the Cape Peninsula University of Technology, the University of Cape Town and the University of Stellenbosch. Representatives from the various institutions provided overviews of the SAIMM and SAICHe activities. Application forms were handed out and a number of students signed up. Professor Roland Clift, a world renowned chemical engineer from the University of Surrey, was the main speaker of the evening and gave an excellent talk on sustainability.

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The SAIMM Prestige Prize for best student in Mining and Metallurgy at each of the three academic institutions was presented by Joshua Ngoma at the Mineral Processing conference dinner to S Nkala (CPUT), M Salie (UCT) and L Auret (US).

4.1.7 *Zambian Branch*

S.C. Mulenga, Chairman
J. Taylor, Vice-Chairman
H.L. Zimba, Secretary
W. Banda, Treasurer

J.P.C. Mutambo F. Simwanza
S. Simukanga

The Zambian branch of the Southern African Institute of Mining and Metallurgy (SAIMM) was finally fully registered with the Registrar of Societies in July 2007. A copy of the registration certificate has since then been forwarded to the SAIMM Head Quarters in Johannesburg, RSA.

Copper event

The branch successfully hoisted a copper event from 27 to 28 November 2007 at Protea Hotel in Chingola town on the copperbelt. The theme of this event focused on developments in the Zambian copper mining industry. Various papers on both mining and metallurgy were presented by different speakers. The Zambian branch appreciated the assistance that was rendered by the SAIMM Head Quarters in organizing this event.

Career Guidance talks

The branch conducted Career Guidance talks to the following Institutions:

- ▶ University of Zambia (UNZA) for two days
- ▶ Copperbelt University (CBU) for two days
- ▶ All High Schools in Lusaka for three days
- ▶ All High schools in Ndola for two days.

These career guidance talks were made possible by the sponsorship of Konkola Copper Mines Plc.

Branch chairmen meeting

The Chairman, Dr. S.C. Mulenga and the Secretary, Mr. H. Zimba of the Zambian branch attended the Branch Chairmen Meeting held on 20 February 2009 at SAIMM Head Quarters in Johannesburg.

SAIMM membership drive in Zambia

The SAIMM Head Quarters sent a lot of membership application forms to the Secretary in Zambia for distribution. The forms were distributed to prospective members, mostly in the mining industry. A few application forms are remaining and these will be distributed in Universities to capture potential student members.

4.1.8 *Zimbabwean Branch*

No report was submitted this year.

4.1.9 *Zululand Branch*

I. Walton, Chairman

Unfortunately the industries in the Zululand area, particularly RBM and Exxaro Sands, who are our major source of members, have experienced significant staff turnover during the last 6 months. The treasurer of the Branch left to go to Australia towards the end of last year and our 2 major supporters from Exxaro Sands have also left for Australia.

What this means is that we are going to have to launch a major recruiting drive early in the year to attract members back to our meetings and functions. In addition, we are going to have to elect a completely new committee this year.

However, we still have a reasonably good base of people from RBM, Exxaro, Foskor, Bayside and Hillside Aluminum smelters, and the suppliers to these industries to draw from for our functions. Our technical meetings last year attracted between 20 and 30 people and our golf day on 24 September was a huge success

Finances

The Branch is doing exceptionally well financially. Our golf day has over the years provided significant funds for promoting the Branch and the Institute in the Zululand area.

Highlights from last year

We had technical presentations by Roche Mining (Downer Edi Mining) and Multotec. Members were also invited to a seminar on sampling techniques by Francis Picard who is an expert on sampling theory

Hatch gave a presentation on furnace start-up and external taphole design and CSense held a symposium on computer modelling and process control to which all the members were invited.

Undoubtedly the highlight on the social side was the golf day held in September. We had 12 sponsors who donated R10 000 and various prizes. We had over 100 players and finished with a profit of just over R7 700. The SAIMM golf day has become a permanent fixture on the Zululand golfing calendar.

Plans for 2009

The major undertaking for 2009 is the Heavy Minerals Conference to be held from 20–23 September at the Champagne Sports Resort and Conference Centre in the central Drakensberg, Plans for the conference are complete and there should be around 30 papers presented during the week.

Branch activities

- ▶ A meeting to choose a new committee
- ▶ At least 3 technical presentations
- ▶ An interdepartmental quiz evening for the RBM members.
- ▶ The golf day.

The branch still has close ties with the Geological Society, the Institute of Refractory Engineers and the suppliers to the metallurgical industry, and we will be making use of anything that these institutions have to offer during the year.

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5. Engineering Science and Technology in South Africa

Portfolio Holder: R.P. Mohring

5.1 Engineering Council of South Africa (ECSA)

R.P. Mohring, Chairman

	<i>Mining</i>	<i>Metallurgy</i>
<i>Representative</i>	J.A. Cruise	R.F. Sandenbergh
<i>Alternates</i>	M.H. Rogers	

Professional Advisory Committee (PAC)

One of the critical functions of ECSA is to ensure that, through a peer evaluated system of quality assurance, persons working within the profession are educated and trained according to widely accepted standards, so as to render a professional service for the benefit of the public and the country as a whole.

The Professional Advisory Committees of ECSA are responsible for evaluating applications for registration as professional engineers within their disciplines and also contributing to wider policy matters as required.

The Institute nominates members to the PAC's for Mining and Metallurgy.

During the past year the Pac's for mining and metallurgy continued their important work of evaluating the qualifications and experience of applicants for registration as Professional Engineers. The institute also provides the administration and assessors for the Professional Reviews, a prerequisite for registration.

Professional Advisory Committees

PAC Mining

J.A. Cruise, Chairman

M.H. Rogers, Vice-Chairman

F.M.G. Egerton	G.L. Smith
R.P. Mohring	T.R. Stacey
M.J. Mothomogolo	J.N. van der Merwe
J.C. Ngoma	D.J. van Niekerk
R.C.D. Phillis	

The Identification of Engineering Work: compulsory registration

The Identification of Engineering Work steering committee drafted proposed regulations for compulsory registration of persons conducting 'identified engineering work'

These draft regulations were submitted to the Council for the Built Environment (CBE) and other interested and affected parties for their comment. The CBE have rejected these draft regulations as they contend that the ECSA submission does not conform to their requirements that a common template be used for all the Built Environment professions. ECSA disagree with this contention. ECSA and the CBE are currently attempting to resolve the impasse.

Recognition of voluntary associations

The SAIMM is a recognized Voluntary Association in terms of ECSA's policy. An important benefit to members of the SAIMM is that registered persons are entitled to a significant reduction in their ECSA annual fees.

Continuing professional development (CPD)

Renewal of registration (on a five-year cycle) through undertaking acceptable CPD became mandatory on 1 January 2006. Registered persons were required to start undertaking and recording CPD activities as from 1 January 2006.

The implication of the introduction of CPD is that Registered Persons are required to present evidence of continuing professional development at predetermined intervals in order to maintain their registration.

The SAIMM is an approved provider of CPD activities and are tasked with vetting all outside courses for CPD purposes in mining and metallurgy.

Details can be obtained on ECSA's website (www.ecsa.co.za).

Built Environment Professions Bill

The proposed draft bill has been withdrawn by the Department of Public Works.

Term of office

The term of office of the current Engineering Council expires in September 2009.

The SAIMM proposed candidates for Mining and Metallurgy to ECSA. The Minister of Public Works has received nominations from ECSA for the new council.

PAC Metallurgy

R.F. Sandenbergh, Chairman

N.A. Barcza	R.H. Eric
R.D. Beck	M. du Toit
L.A. Cramer	

The mission of ECSA is to ensure, through a cooperative 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 2008/2009 the PAC Metallurgical Engineering again considered applications for registration as Professional Engineers by means of paper evaluations and interviews, in which volunteers from the SAIMM participated. The requirement for continuing professional development of Professional Engineers is now a requirement for all registered persons and the PAC supports the strong involvement of the SAIMM in such a process for Metallurgical Engineers.

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

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over a broader front of engineering. The Academy is presently negotiating with various stakeholders and the government for the official recognition of the SAAE to enable it to provide a better service.

The SAAE was accepted as a member of the International Council of Academies of Engineering and Technological Sciences (CAETS), thanks also to the support of the SAIMM, in July 2009 and participated in the Convocation of CAETS which was held in July 2009 in Calgary, with the theme: Our heritage of natural resources—Management and sustainability. Contributions were made by fellows of the SAAE on water management: Michael Shand and Robert Pullen; planning and management of South Africa's limited water resources for sustainability; and on mining and minerals: Roelf Sandenbergh, Con Fauconnier and Roger Baxter, Mining as a catalyst for development in underdeveloped regions: an African perspective.

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, delivered on 28 May 2008, with the title: Telecommunications in Africa over the past 20 years, was presented by Mr Alan Knott-Craig, former CEO of Vodacom.

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:

- ▶ A Rock Engineering Steercom has been established in November 2008 to expedite the development of an appropriate implementation plan for the effective implementation of outcomes-based educational and training (OBET) OBET-compliant competency standards for the RE Practice Area in the SA Mining and Minerals Sector. This will include the replacement of the current Chamber-of-Mines-of-SA's certificate of competency. The Steercom has to date produced the Charter and concomitant project plan, informatory circular and a list of questions and answers
- ▶ The MQA Office undertook an Equivalency Analysis for the Mine Environment Control certificate-of-competency of the Chamber of Mines of SA. As a result of a poor/deficient Terms-of-Reference, the SGB for Mining and Minerals has taken note of the said EA-report but has unanimously resolved to put the said report aside
- ▶ The establishment of an Occupational Environment Engineering and Hygiene Steercom to coordinate and expedite the implementation of OBET-compliant of competency standards for the OEE&H-practice area is now already 24 months outstanding since the OEE&H Workshop in July 2007
- ▶ With the imminent advent of the new Quality Council for Trades and Occupations (QCTO), the SGB Office has

embarked on a pilot qualification design for the occupation of Mine Overseer [Unit Manager (Mining)] which is expected to be QCTO-compliant. One of the important paradigm shifts in the generation of a competency standard for the Mine Overseer/Head (Mining) is that candidates/learners will be declared competent and certificated based on an independent external assessment (examination?).

- ▶ The work of the Certificated Engineer/Manager Steercom is interrupted or delayed by the MQA Boards' insistence on being provided with an appropriate rationale for approving the equivalency analyses of the following Government's Certificates of Competency (GCCs):
 - GCC for Mine Managers: U/G Hard Rock
 - GCC for Mine Managers: Fiery (U&G Coal) Mines
 - GCC for Mechanical Engineers (Mines and Works) and
 - GCC for Electrical Engineers (Mines and Works).

The said CE/CM Steercom will develop an appropriate implementation plan for the future replacement of the current GCCs issued by the DME with OBET-complaint generic engineering competency standards registered on the 10-level National Qualifications Framework.

- ▶ The work of the management of Mines' Task Team has been interrupted and delayed. The primary outcome of this critical initiative is to develop a risk-based classification of mines
- ▶ The M&MSG established a Certificated Engineer Steering Committee which will develop programmes for the Stage 2 work-integrated-learning component for certificated engineers and managers.

The Engineering SGB/ECSA

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

- ▶ The Engineering Standards General body (ESGB) has re-established the dormant Standards Generation Group (SGG) for CEs and CMs to reconsider the appropriate Higher Education Qualifications Framework (HEQF)-complaint minimum educational standards for CEs and CMs as well as to review the current registration criteria for CEs and CMs.
- ▶ The ESGB has established an SGG for the development of the following qualifications to complete the Framework of Engineering Qualification i.e. Level 7, Advanced Diploma in Engineering and a Level 8, B. Eng. Tech. (Honours).
- ▶ The ESGB has obtained agreement from relevant stakeholders for the qualification 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. The participating Mines Professional Associations, which include the SAIMM, have played a significant role in achieving this critical milestone. This generic qualification also provides the competency profile for practitioners in the Factories, Transport and Marine Sectors.

Outstanding/unresolved issues

The following outstanding/issues still require resolution:

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- ▶ 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
- ▶ Further consideration by the Mine Health and Safety Council and the Board of the Mining Qualifications Authority (MQA) the DME's 'Discussion Paper: Training, Competency Certificates and Licensing in the SA Mining and Minerals Sector' which, amongst others proposes registration to be the appropriate mechanism to replace the Mine Managers' and Engineering Competency Certificates currently issued by the Government
- ▶ Implementation of OBET-compliant competency standards for the Rock Engineering practice area
- ▶ Implementation of OBET-compliant competency standards for the Occupational Hygiene practice area
- ▶ Implementation of OBET-complaint competency standards for CEs and CMs in the SAM&MS
- ▶ Finalization of an risk-based Classification of Mines.

Identification/reservation of engineering work

- ▶ The ECSA Council, at its meeting held on 24 November 2006, approved the 'Proposed Identified Engineering Work (IEW) Regulations'.
- ▶ In terms of section 20.(1)(b) of the Built Environment Act, 2000 (Act No 43 of 2000) 'the Council must consult with any person, body or industry that may be affected by the IEW'.
- ▶ In terms of section 20.(2) of the Built Environment Act, 'the Council must after consultation with the Competition Commission and in consultation with the Councils for the professions, identify the scope of work for every category of registered person'.
- ▶ The registration of the said 'Proposed IDoEW Regulations' have to date been delayed by the Council for the Built Environment (CBE) now for a period of nearly 24 months. A Joint ECSA and CBE Task Team has been established to resolve the current impasse in regard to the said IDoEW.
- ▶ Phase II of ECSA's IDoEW Project is focused on the marketing and promotion of the 'Proposed IDoEW Regulations' and to consult persons, bodies or industries that may be effected by the proposed IDoEW Regulations. Numerous institutions, voluntary associations as well as other interested and affected parties have been visited during 2008/9 to familiarize them with the proposed IDoEW regulations.

Potential implications: implementation of the proposed IDoEW regulations

The employer grouping and the participating MPAs have jointly undertaken an 'Acid Test Survey' to determine the potential implications of the imminent promulgation and implementation of the proposed IDoW regulations in the SA Mining and Minerals Sector. The draft report has identified the potential implications from the said survey but a follow-up Questionnaire was distributed throughout the industry to obtain quantification for some of the said potential implications. The report concludes that the majority of persons who are considered to be performing Identified Engineering Work would be eligible to

register with the ECSA but that only about 22% of the said persons are in fact currently registered in the appropriate category with the ECSA. The final Report is expected to constitute the basis for the long-awaited engagement between the Mine Health and Safety Council and the ECSA.

7. International liaison

Portfolio Holder: R.G.B. Pickering

Key Performance Areas

To achieve its objectives, the SAIMM

- ▶ *Participates in and represents South Africa on bodies such as 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

The 34th APCOM (<http://www.cim.org/apcom2009>) will be held in Vancouver, British Columbia, Canada, from 6 to 9 October 2009. Organized by the Canadian Institute of Mining, Metallurgy and Petroleum, the 2009 APCOM Symposium will present papers on systems of knowledge management, computer modelling in different areas of mining process, operations research, automation, robotics and virtual reality.

The Chairman of the organizing committee is Dr Robert Hall of the University of British Columbia (robhall@mining.ubc.ca).

The registration fees range from \$900.00 for presenters and session chairs to \$1100.00 for non-members. Some fees will increase if registration is done after 1 September 2009.

The symposium will be held at the Sheraton Vancouver Wall Centre Hotel (reservations@wallcentre.com) where Standard Room rates for APCOM participants are \$215.00CAD per night, if reservation is made on or before 6 September 2009.

7.2 INFACON

N.A. Barcza, International Committee on Ferroalloys

The INFACON Congress was founded in South Africa in 1974 by the SAIMM, Mintek and the Ferroalloys Producers Association (FAPA) when the first INFACON was held in Johannesburg. INFACON has already been held three times in South Africa, the last being in Cape Town in 2004. However, the most recent Congress, INFACON XI was held in New Delhi India in 2007. The next Congress INFACON XII will be held in Helsinki in June 2010.

The primary objectives of The International Committee on Ferro Alloys (ICFA) that was formed during the first INFACON is to promote the holding of the INFACON Ferroalloy Congress every three years in appropriate locations and retaining the high technical standard. ICFA arranges the meeting of representatives from producing and consuming countries during each INFACON to discuss the relevant technical content for INFACON and decide on the country that will host the subsequent INFACON Congress. Prospective host countries are invited to make submissions in advance to ICFA accordingly.

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The current members of ICFA include: ABRAFE (Brazil), CSM (Chinese Society for Metals—China), IFPEO (Europe including Scandinavia), IFAPA (India), JFA (Japan), TFA (North America), and FAPA (South Africa), and invited attendees include Russia and Kazakhstan. It is hoped that one of these countries will host INFACON in the next few years. However, Brazil indicated a strong interest in hosting INFACON XIII in 2013 and it has therefore been provisionally awarded the congress subject to ratification at the ICFA meeting in June 2010.

INFACON has been held on 11 occasions in the following countries and locations:

- ▶ Brazil (1) in 1986 in Rio de Janeiro by ABRAFE
- ▶ Canada (1) in 2001 in Québec City by the TFA
- ▶ China (1) in 1998 in Beijing by the CSM
- ▶ India (1) in 2007 in New Delhi (IFAPA)
- ▶ Japan (1) in 1983 Tokyo by the JFA
- ▶ Norway (1) in 1995 in Trondheim by SINTEF
- ▶ South Africa (3) in 1974, 1992 and 2004 in Johannesburg (1), Cape Town (2) by FAPA, Mintek and the SAIMM
- ▶ Switzerland (1) in 1980 in Lausanne by IFPEO
- ▶ USA (1) New Orleans 1989 by the TFA.

INFACON has and continues to contribute to the exchange of research and development information by publishing refereed papers covering the major and most of the minor ferroalloys. Universities and technical colleges, research and development organizations, suppliers of services, engineering and equipment and of course the industry itself have mostly contributed to this wealth of knowledge over the 35 years since INFACON was founded.

INFACON XII in Helsinki will focus on sustainability within the ferroalloys industry with the chosen theme being 'Sustainable Future'. The ferroalloys industry has experienced fast developments and growth in recent years but has suffered recent cutbacks due to the market slowdown in the past year.

The variability in demand and prices of ferroalloys, increasing costs and awareness of the need for sustainability is challenging the industry to come up with new innovations. Sustainable production with better management of natural resources and energy, material lifecycle management as well as other environmental challenges and opportunities has certainly inspired authors to submit a record number of abstracts to INFACON XII with 128 having been received by the deadline in April 2009.

Discussions were held in late April 2009 between the chairman of ICFA Nic Barcza and the Chairman of the Organising Committee of INFACON XII Jorma Daavittila and the Chairman of the Technical Programme Committee Kari Knuutila to review progress with regard to INFACON XII. The Organising Committee informed ICFA that it has made good progress with plans to bring together experts from various fields of ferroalloys including in particular representatives from Russia, the Ukraine and Kazakhstan.

The technical programme for INFACON XII includes important topics such as fundamentals, technological developments and industrial practices related to the design and construction of new production facilities and for improving of existing plants as well as for better operational performance and process control.

INFACON XII has established an excellent website with all the relevant information. Authors are encouraged to visit the

INFACON XII website to familiarize themselves with the schedule and plan their submissions accordingly.

The INFACON XII Committee has come up with a good idea, namely to form an 'Extended INFACON XII Program Committee' that met for the first time on 15 April 2009. Johan Basson (Outotec, South Africa) attended the meeting having consulted with his fellow committee members from INFACON XI held in South Africa in 2004. The Extended Program Committee also includes representatives from several Scandinavian countries as well as Kazakhstan and Ukraine.

The tally of abstracts received stands at 128, which is the record for INFACON. The abstracts have been reviewed and subsequently invitations to submit manuscripts were sent by the end of May to authors.

The abstracts received fall into the following categories:

- ▶ Energy, environment and recycling (17)
- ▶ Engineering design, equipment and control (20)
- ▶ Fundamentals—theory, development, modelling, reducing agents (46)
- ▶ Production technologies and operation—ferrochromium, ferromanganese, ferrosilicon, ferromanganese and minor ferroalloys, pretreatment and post-taphole processes (39)
- ▶ Commercial aspects—resources, logistics, markets and uses (6).

Abstracts have been received from 25 countries with a number from Kazakhstan, Russia, the Ukraine, and Bulgaria which is gratifying since the hosts Finland had agreed to make a special effort to involve countries from the region that had not participated previously to any great extent.

Norway and South Africa have contributed the largest number of abstracts (21 and 19 respectively) with Finland and India nine each and eight from Kazakhstan.

One of the objectives of the committee is to expand the participation at INFACON in particular from countries that are located in Central Asia, the FSU, and the Pacific Rim. However, China is conspicuous by its absence and their participation at the Congress and the ICFA meeting will be sought by both ICFA and INFACON XII.

An impressive list of referees has been drawn up that should ensure that the high standard achieved at previous INFACON congresses will be maintained and even improved.

Three parallel technical sessions are being planned to accommodate the large number of abstracts at INFACON XII. This will also allow for sufficient time for presenters to deliver their papers. Consideration is also being given to holding a special poster session with those presentations that merit this.

Post-Congress tours are planned to plants in Finland and Russia and these may be expanded to other parts of Scandinavia. The extensive hours of sunlight in Helsinki in June also favour an entertaining social programme as well as interesting activities for affiliates including visits to Tuusula Lake and Porvoo. The Old Town of Porvoo provides one of its most colourful sights and tourist attractions and is famous for its narrow lanes and brick-coloured riverside warehouses.

There are still sponsorships for Gold, Silver and Bronze categories available at INFACON XII but the list is filling up so South African companies that are involved in the ferroalloy business need to move fast to secure this opportunity.

South Africa as the founder and host of three INFACON congresses continues to have a noteworthy involvement at INFACON with 19 abstracts submitted by end April 2009.

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A significant participation from South Africa is also expected at the INFACON XII exhibition that affords engineering companies and other service providers that opportunity to meet several hundred delegates from around the world as well as to keep contact with previous and current clients.

South Africa and Finland have had a longstanding technical and commercial relationship, in particular in the field of chrome ore processing and ferrochrome smelting, that has already resulted in an excellent submission of abstracts and will no doubt encourage very good participation at INFACON XII next June.

Arrangements for INFACON XII are making excellent progress and the organizing committee has planned the congress very thoroughly, which promises a very successful event in June 2010.

The SAIMM is the custodian of the INFACON Bursary Fund that contributes primarily to postgraduate research and development in the field of ferroalloys. The fund was established from the surplus generated from the previous INFACON XI Congress in South Africa. The SAIMM, together with the other stakeholders, is considering broadening the basis for awarding the funds.

Invitation to attend INFACON XII, 2010

THEME 'Sustainable Future'.

6–9 June 2010, Helsinki, Finland <http://www.infacon12.com>
<<http://www.infacon12.com/>>, Congress Secretariat: INFACON XII, c/o Outotec Oyj, P.O. Box 86, FI-02201 Espoo, Finland. Tel. +358 20 529 211, e-mail: infacon12@outotec.com. The INFACON XII Organising Committee website is: http://www.congreszon.fi/infacon_xii/organisers/

Registration, accommodation and general arrangements: Congreszon Oy, Itälähdenkatu 22A, FI-00210 Helsinki, Tel. +358 9 5840 9350, Fax. +358 9 5840 9555, e-mail: infacon12@congreszon.fi.

7.3 SAMREC/SAMVAL

J.R. Dixon, Chairman

After a hectic 2008 when the revised SAMREC and new SAMVAL Code were published, things returned to normality in 2009.

The Codes were generally well accepted in the industry and the SAMVAL Code seemed to create a lot of interest among the valuation fraternity. As a result of comments the SSC issued its first Guidance Note on the SAMVAL Code about the interpretation of Clause 26. This is a practice the SSC will continue as part of the effort to ensure quality reporting and valuation. Guidance notes will also assist in keeping the Codes current and avoid long waits for updates.

Several presentations were made to contracting and consulting companies on the interpretation of the two Codes and the role and responsibilities of the Competent Person and Competent Valuator, which in the current financial turbulence have become even more critical and important.

During October/November the Oil and Gas Working Group (OGWG) was reconstituted under the chairmanship of Malcolm Wood, a member of the Society of Petroleum Engineers (SPE). It was felt important that the South African reporting standard should be consistent with similar standards in the oil and gas

industry and with the SPE's Petroleum Resource Management System (PRMS). Thanks to Andy Clay and the original OGWG for their contribution in getting the process underway. Many of the old members will participate in the newly constituted OGWG.

During November 2009 Roger Dixon and Ferdi Camisani attended the Committee for Mineral Reserves International Reporting Standards (CRIRSCO) in Santiago Chile. The meeting coincided with the launch of the registration process of Competent Persons in Chile and the Comisión Minera which is the SAMREC equivalent in Chile. An appropriate presentation was given on the South African Codes to an official function of about 200 people from the Chilean Minerals industry.

Early in 2009 one of the SSC stalwarts Matt Mullins was transferred to Western Australia on business for BHP Billiton. Matt was the President of the GSSA at the time and the Vice Chairperson of the SSC. His contribution as Chairperson of the Main Working Group to the publication of SAMREC and SAMVAL Codes was immense and he will be sadly missed. Mike O'Brien another long serving member of the SSC has taken over the reins as Vice Chairperson of the SSC and Chairperson of the Main Working Group.

Ferdi Camisani continued his work as the solid minerals chairperson of the UNECE Ad Hoc Group of Experts on Harmonization of Fossil Energy and Mineral Resources Terminology. He attended the preliminary meeting in Stavanger Norway which was in preparation for the sixth session of the Ad Hoc Group of Experts held in Geneva in April. The sixth session attended by Ferdi Camisani and Roger Dixon on behalf of CRIRSCO was intended to finalize the 2009 edition of the United Nations Framework Classification (UNFC) which caters for solid minerals and oil and gas. This objective was not met mainly due to some unresolved issues raised by the representatives from OPEC. The intention is to resolve the issues and publish the 2009 edition of the UNFC at the end of October 2009. The UNFC is intended as a guide for countries developing classification standards and is not considered to be an alternative to South African Codes or other CRIRSCO style codes. The UNFC will be an umbrella classification system for oil and gas and solid minerals with the detail standards left to each National Reporting Organisation (NRO).

The SSC through CRIRSCO continued its watching brief on the IASB Extractive Industries Research Project. The relationship with IASB representatives remains strong and the definitions of reserves and resources contained in the CRIRSCO template seem to have been accepted. The discussion paper containing a proposed way forward for the recognition of reserves and resources in financial statements will most likely be published in August with a 6–8 month discussion period.

The SSC has continued to supply a Readers Panel for the JSE Limited which monitors compliance of Competent Person and Valuator Reports with the SAMREC and SAMVAL Codes. The quality of reports submitted has improved dramatically over the 9 years the Readers Panel has been in existence. The South African Minerals Industry can be justifiably proud of its achievements in reporting excellence. The SSC also recognizes the active support of mineral companies in the promotion of reporting excellence in South Africa. The next step in monitoring compliance will be to extend it to all public reports including press statements, presentations and websites.

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CRIRSCO has a strategic alliance with the International Council on Mining and Metals (ICMM) whereby a large portion of its activities is funded by the ICMM. The ICMM and CRIRSCO see the responsible reporting and management of mineral resources and reserves as an integral part of sustainable development in mining.

The continued support of the SAIMM and the GSSA is recognized and appreciated.

8. Management and administration

Portfolio Holder: A.M. Garbers-Craig

The Secretariat consists of:

Ms Julie Dixon (Manager)*

Mr Alf Bettoni (Accountant)

Miss Edith Dube (Membership and Subscriptions Secretary)

Miss Abigail Lawrence (Journal Co-ordinator)

Miss Portia Malatji (Accounts Assistant)

Mrs Zuliakha Malgas (DTP Operator)

Miss Nazli Mamdoo (Publications Co-ordinator)

Miss Lucinda Niekerk (Switchboard/Receptionist)

Mrs Ginette Oliver (Membership and Subscriptions Supervisor)

Mrs Anna Panana (Conference Secretary)

Mrs Apathia Sello (Administration Clerk)

Mr Raymond van der Berg (Conference Co-ordinator)

Mrs Dawn van der Walt (DTP Supervisor)

Mrs Jackie van der Westhuizen (Head of Conferencing)

The SAIMM, office bearers and council record their appreciation to the above for their service.

8.1 Finance

J.A. Cruise, Honorary Treasurer

This past year was the year of international economic meltdown. People with stocks and shares on the world bourses saw their investments slashed over a short period of time. Your Institute did not come out of this meltdown unscathed.

Fortuitously, we had instructed our share portfolio managers to increase our liquidity from 10% to 30% just prior to the meltdown, which has resulted in the value of our portfolio decreasing over the financial year to June by only 14% as compared to the JSE decrease of 27% over the same period.

Midway during the year, we anticipated that the economic climate would result in a disastrous year financially for our banquet, colloquia and conferences and we prepared to tighten our belts. Our first move was to limit the downside of those functions which already had incurred substantial costs and for which cancellation would have been a total loss. The first function to be hit was the annual banquet, which we rescued by drastically reducing the price of tables, thus ensuring attendance that could cover the overheads and sunken costs. We called this the 'Austerity Dinner'.

Our second was an international conference on shotcrete, which when it looked like the attendance would be low, we invited the final year university students to attend at reduced rates. The result of this was a well attended conference, which surprisingly also made an excess of income over expenditure. Since then, the conferences we have held have shown no sign of the recession.

In addition, we were most fortunate to have held the ever popular Platinum Conference just before the meltdown. Thus, our conferences continue to be the prime source of revenue for our Institute allowing us to show an operating surplus for the year of R513 013 (previous year R91 944).

If we look at the income statement summary of the annual statements, we see that the overall loss for the year was R799 647 (R1 568 699 surplus). This was due in the main to the depreciation in the value of shares of R1 806 398 (R744 301 appreciation) and loss on shares sold of R248 744 (R83 656 gain). Investment income increased to R742 482 (R650 149).

The reporting of revenue changed during the year to show the true turnover values. In previous years we had shown only the excess of income over expenditure as income from conferences. Therefore the current value for revenue of R12 617 408 should not be compared to last year's value of R5 063 861. Nor should the operating expenses value of R12 104 395 be compared to last year's value of R4 972 725. However, the bottom line of operating surplus of R513 013 can be compared to last year's value of R91 944. This in a year of economic meltdown! That which was under our control, namely the operations, we were able to adapt to the circumstances and we showed a surplus. That which was beyond our control, namely the share market, showed a loss in value.

The detailed income statement shows that advertising revenue increased to R732 512 (R672 568), company affiliates subscriptions increased to R696 183 (R691 782) and membership entrance fees and subscriptions increased to R1 558 860 (R1 497 184). As mentioned in the previous paragraph, the income from conferences, colloquia, schools and miscellaneous of R9 629 853 cannot be compared to last year's value of R2 202 327, as the former is total revenue and the latter is revenue less cost of sales. Similarly, in the operating expenses, the conference expenses of R6 421 202 cannot be compared to last year's R601 731. In addition, this year's employee costs of R2 882 430 are for all employees on the staff, whereas last year's R1 800 938 omitted the conference staff whose costs were included in the conference cost of sales.

In summary, the total income for the year is R13 359 890, being revenue from operations of R12 617 408 plus dividend revenue of R281 856 plus interest received of R460 626. The operating expenses for the year are R12 104 395, thus producing an operating surplus of R1 255 495.

After including the sale of shares loss of R248 744 and the share value adjustment of R1 806 398, a deficit for the year of R799 647 is taken forward to the statement of changes in reserves.

The effect of this on our reserves is shown. Our total reserves have dropped from R17 219 573 to R 16 432 441.

During the year, we had a blitz on outstanding debtors to clean up our books. This was undertaken by the entire staff for a period of a few months and I must thank them all for their effort. The job of the honorary treasurer is made easier by having such a dedicated secretariat and I must thank our Institute manager, Julie Dixon, and our accountant, Alf Bettoni, for their unstinting efforts throughout the year. To our auditor, Robert Kitching, thank you for placing the SAIMM at the top of your workpile in July and for getting the annual financial statements in record time for our annual general meeting. Finally, to our desktop publishing department once again you

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have got the financials to the printers on time. Well done all.

Your Institute continues to be in financial good health, as it has been for the last decade.

New Members

Fellows

N. Green and D. Tudor.

Members

T. Bergenthuin, M. Bonga, R. Botha, I.M. Bratt, P.M. Bredell, P. Busse, J. Chapman, A. Chibaya, M.J. Chite, M.J.D. Claassens, L.P. Coetzer, J.D. Collins, G.A. Coutinho, F.A.C. da Lomba, M. Damen, M.D. Davidson, D.R. de Wit, S.J. de Witt, B.E. Dippenaar, N.A. Dlambulo, C. Dorfling, N.B. du Preez, G. du Toit, S.C.P. Ferreira, D.B. Fourie, S.P. Garner, I. Geldenhuys, J.J. Gloy, S. Gracie, J.D. Green, H.C.I. Grobler, J. Hadjigeorgiou, J.W.L. Hanekom, J.G. Hermann, S.N. Herselman, C.C. Holtzhausen, M. Hove, H.J. Ilgner, N.L.V. James, H. Jansen van Rensburg, K.A. Joslin, A.P. Kabinda, T.N. Kabundi, T. Kachigunda, A. Kairbekov, S.R. Kallam, E. Kapakyulu, K.C. Kapembwa, M. Keitumetse, S. Kennedy, G.J. Keyter, W.G. Kgasi, E.C. King, I. King, A.S. Kipara, B.D.H. Knights, E. Koortzen, D.G. Krugel, R. Kruger, J. Kumburu, H. Lagendijk, P. Ledger, R.G. Leighton, T. le Roux, R. Lombard, R. Mabaya, T.S. Machaka, J.A. Mackay, M. Magunde, B. Manhando, L.L.B. Mashabile, D. Mashizha, T.C. Maswanganyi, V.L. Mathebula, B.O.N. Mathibe, A.C. Mauve, C. Mavunganidze, A.D. McKenzie, K. Mekani, B.V. Mngomezulu, N.C. Moalahi, K.P. Mokalleng, D. Molapo, P.M. Moseitlho, B.I. Mthembu, S.L. Mulder, S.C. Mulenga, M. Mungazi, T.G. Murasiki, C.T. Musa, J.M. Musaididzwa, M. Musonda, C. Muvingi, I.A. Mwamba, P. Naidoo, R.E.K. Nepaya, M.J. Nicholson, I. Nolet, D. Nowak, I. Nyenga, A.E. Palma, M. Papadakis, P.L. Pieters, S. Pule, J.J. Quiroga, N. Reddy, N. Rossouw, A. Rudaki, J. Ruddy, M. Rwekaza, B.N. Samanga, E. Sampson-Cobban, G.M. Saueremann, D.J. Sebugwao, M. Shava, J.A. Shuttleworth, P.N. Sibanda, Y.P. Sijtsema, G.C. Smith, N.K. Smith, H.O. Smuts, N.M. Stubina, S.N. Surujhlal, J. Tachie-Menson, S.C. Tadolini, C.T. Tarimo, M. Thokweng, M. Tibane, D.C. Tickner, L.C.K. Tolmay, G. Togara, A.B. Tunono, W. van Drunick, M.S. van Heerden, T. Visagie, W.J. Visser, C.A. Walker, S. Waters, M. Wiranga, J.A. Wood, G.D.L. York, V. Kumar, H. Zulu.

Associates

T.S. Aboobaker, M.M. Ally, D.A. Aughterlonie, L.D. Backhouse, R.T. Bamuza, M.J. Barnard, V. Bazhko, R.A. Bradley, M.J. Bronn, A.J. Carr, T.G. Carter, E.F. Chademana, R. Chatikobo, O. de Beer, N. de Wet, K.C. Dirapelo, S.V. Dondolo, G. Elias, J.P. Ferreira, C. Fourie, H.F. Fuls, K. Garebaitse, D. Govender, K.M. Govender, I.H. Hendry, M.J. Hill, D. Hoffmann, T. Hove, K. Izina, J. Jackson, B. Jirah, F. Kasiyamhuru, K. Keabetswe, C. Kgatle, N.K. Kgatuke, A.P. Klein, Y. Korb, J.J. Kruger, L. Kruyswijk, D. Kumar, J.P. Labuschagne, B. Lalla, K.S. Ledwaba, S.S. Lefume, T.B. Lekgetho, M. Lephoma, E.M. Lugano, T. Lukope, M.C. MacMillan, V.F. Mahlangu, N. Maisori, N. Majeke, L. Malubane, R.F. Maluleke, R. Mandimika, B.K. Maputla, P. Mare, I. Marufu, G.P. Marx, V. Masakane, C.B. Masango,

O.S. Matshediso, I. Matsika, J. Matumbo, A.E. Mavhungu, B.Z. Mbao, S.P. Mbulawa, S.D. McCullough, R.J. Mdoe, R. Menard, C. Mfula, A.T. Michele, P.K. Mitchell, T.M. Miya, J. Mlay, K. Mmitlo, M.A. Moeketsi, D.M. Mogogole, K. Mohanlal, E.T. Mokgwamme, J.I. Molebale, D. Moradkhani, P.J. Morgan, G.A.J. Mostert, W.J. Motlhamme, C. Motloun, M.M. Motloun, J. Mpoyi Kanda, M.M. Mtetwa, G. Mujwahuzi, A. Mukechi, K. Mukuku, N. Mulaudzi, K. Muller, T.D. Mutava, J.D. Mwakabage, C.E. Mwinuka, S.K. Nayak, L.D. Nell, S.R. Ngaka, I.T. Nyamukondiwa, M. Nyoka, K. Oageng, N.B. Parag, D. E. Petter, Pretorius, M. Ramanjalum, R. Rapoo, R. Rashayi, A. Rashtchi, M.K.F. Reolon, T.V. Resane, T.D.B. Rudd, E.R. Rutta, N.C. Sahoo, M.F. Samki, T. Sertic, M.A. Shariff, A.A. Shauri, M.Z. Shoniwa, M. Sowa, J.W. Steyn, A. Stoltz, B.D. Strong, H. Strydom, C.G. Theletsane, T.R. Thulare, M.R. Tlhole, J.J. van der Merwe, J.H. van Reenen, G. van Wyk, P.S. van Wyk, F. Vasquez, Q. Wang, J.A.S. Woolffe, V. Yahorava.

Students

H.N. Abraham, B.T. Afeni, W. Ahmed, M.-C. Apua, R. Baloyi, A. Barnard, J. Bernitz, J.J. Bezuidenhout, T. Bhengu, B.S. Bomela, T.N. Buthelezi, D.K. Chibwe, T. Chikosha, R.A. Chiume, H.T. Chiwaye, J.M.A. Coelho, R.A. Couperthwaite, S. Daniels, R.J.B. DaS. Dos Santos, R.G. Debella, C.E. Dekker, L.C. N.O. Dibakwane, Dickson, M.J. Dimo, A. Dlamini, S.S. Dlamini, F. Ewembe Yuka, J.C. Garrett, K.M. L. Gcwabe, Gomba, J.C. Gordon, S.P. Govo, A.T. Gwenthure, G. Halale, Z. Halifa, N. Harkhu, M.L. Harris, P. Hlungulu, F. Joel, A.R. Jones, L.-R. Joseph, L. Julies, K. Kabezya, A. Kasozi, S. Kekana, T.J. Kekana, M. Kgomo, N.G. Khoza, B.D. Khumalo, M.P. Khumalo, P.D. Khumalo, J.W. Knight, T.E. Kosana, L.O. Kotelo, A.J. Kruger, D.J. Kruger, M. Kruger, Q. Kruger, A.S. la Grange, M.B. Lekala, L.F. Lekoba, P.T. Lendjongdjo, P.S. Lepele, O.B. Lesejane, P. Letsie, P. Ligudu, D. Lusinga, T.E. Mabeko, M.L. Mabotja, M.S. Madiba, E.P. Magogodi, S. Mahlangu, M.L. Mahlatji, L. Main, T. Makena, R.M. Makgota, N.P. Makhwathana, R.P. Makola, T.K. Makomane, V. Malele, L.C. Mamabolo, T. Mamapha, R.M. Mamogale, M.P. Mampuru, D. Manenzhe, M. Mangere, G. Mapele Makila, G.S. Mare, K. Masehlela, L.A. Maseko, T.M. Maseko, M.G. Masesane, C. Masilela, T.M.N. Masilela, M.T. Matjeke, D.M. Matlou, K.T. Maubane, T. Mavhunga, S.I. Mbalamba, N. Mbedzi, T.M. Mbhele, B.N. Mdluli, A.W. Meek, U. Mgwetyana, A. Mhondiwa, L.N.T. Miyen, T.G. Mkhalihiphi, V.R. Modimola, P.G. Modise, E.M. Mohlala, L.M. Mohlala, T.A. Mokone, R.W. Mokwena, K. Molabe, N.V. Molala, T. Molokwane, P. Moloto, T. Montong, M.S. Montshosi, A.S. Moodley, K.M. Mooki, Tazibana; D.G. Mphahlele, P. Mpunzi, O.N. Mpyatona, Z.M. Msibi, S.V. Msimango, S. Mthembu, S. Mthimkhulu, S. Mtombeni, M. Mtsoeni, T.A. Muhlare, L.G. Mukhavhuhi, J. Mukheli, R.R. Mulutsi, G. Munganga, K. Mutombo, M. Ndingane, S.S. Ndinisa, H.R. Neduvhuledza, R.T. Nengwenda, R. Niehaus, I. Nikai, J.M. Nkanyane, S.P. Nortje, K. Ntsoane, S.W.S. Nxumalo, D. Nyabadza, T.E. Nyabela, G. Nyawo, M.A. Nyembwe, C. Nyoni, T.A. Oageng, E.N. Ogunmuyiwa, J. Oosthuizen, K.S. Osasan, L. Pearce, B. Pewa, C.V. Phaahla, H.M. Phalwane, M. Phetoe, J.A. Potgieter, H.J. Pretorius, A.O. Prinsloo, N.K. Pungwe, I.C. Rabeng (née Kmunou), A.R. Rabumbulu, T. Ralebakeng, R.A.N. Ramalepe, R.C. Ramasodi, M.N. Rambuda, M.E. Ramfolo, P. Ramjee, M.A. Ramoshaba,

Annual report

S.J.R. Rapelego, T.M. Rasekganya, U. Rau, A.D. Reddy, T.N. Richards, M.N. Roomanay, B. Seate, S.M. Sebola, K.A. Sehlabaka, P.A. Sejake, M.P. Sekhuto, K. Setlhare, R. Shah, T. Shumba, M. Silase, T. Sinugo, K.T. Sivhabu, A. Smit, F.M. Stoddart, L. Teba, M. Thangwane, E. Thorpe, M.P. Thwala, K.F.S. Tong, M.L. Tseka, J. Tsepo, M.P. Tshazi, K.E. Tshethanyane, R.M. Tshogo, P.J. van den Heever, A. van der Westhuizen, M.P. van Rooyen, R.F. van Schalkwyk, E. Vernon, E. Wegner, N. Warambwa, R. van Wyngaard, L.P. Zungu.

Company Affiliates

Ausenco Securities (Pty) Ltd; Commodas (Pty) Ltd.

Resignations

Fellows

M.J. Adan, G.G. Garrett, K. Marshall, C.S. Russell, J. Theron.

Retired Fellows

B.F. Berry, J. Coetsee, B. Collins, R.S.J. du Toit, J.C. Linde, J.S. Smit, J.H. Vorster, J.M. Wells.

Members

J.W. Achleitner, C. Blaauw, A.R. Bye, D.S. Cowie, L.J.H. Fourie, H.P. Grobler, E.R. Klue, G. Leadbeater, C. Mthombeni, A. Mudau, T.C. Netscher, E.J. Pedroncelli, W. Pulles, G.J. Sweby, D. van der Westhuizen, L.E. van Wyk, A.D. Wulfse, K. Levin, D. van der Westhuizen, U. König.

Retired Members

G.R. Jennery, M.O. Ebell.

Associates

G.O. Acheampong, R.J. Anderson, C. Coertzen, S. Eichstadt, R. Gover, R.W. Herwig, U. König, L. Kotta, P. Malope, H. Moggee, G. Petzold, M.A. Rabe, O. Richter, J.J. Rossouw, P.T. Saar, H.-L. Sternberg, D.C. Steyn, J. Steyn, L.T. Steyn, I.J. Theron, P. van Aarde. Van der Westhuyzen.

Company Affiliates

Linatex Africa (Pty) Limited - Pandrol.

Members transferred to Higher Grade

Transfer from Member to Fellow

J.R. de Wet, A.M. Garbers-Craig, G. Guler, R.A. Kinghorn, C.P. Kramers, M.C. Munroe, D.M. Powell, P. Rankine, K.H.H. Reading, S.N. Smithies, B.M. van't Riet, H.L. Zimba.

Transfer from Associate to Fellow

R.J. Bennett, J.O. Claassen, W.A. Colquhoun, L.M. Kunda, L.L. Lukunku, F. Rauschnig, K. Sayginar, T.V. Spindler.

Transfer from Associate to Member

B.A. Murphy, H.J. Kriel, J.A. van Huyssteen, J.D. Steenkamp, G.G. Olivier, B.R. Ngqulunga, D.D. Munro, A. Maharaj, M.D. Seke, D. Takalani, G. Njowa.

Transfer from Student to Member

J. Scheepers, J.J. Lotheringen, M. Smith, N. Viljoen.

Automatic transfer to Associate

F. Bezuidenhout, L.G. Coetzee, M. Coetzee, F. Dlangalala, J.C. Esterhuyse, N. da C. Gaviao, S.C. Hutamo, J. Jacobs, M.M. Kashiba, C.L. Kgope, P. Kluge, Y. Kruger, Y. Kruger, M.P. Letebele, M. Lundt, M. Mabaso, N. Mabunda, L. Mauritz, A.M. Monyana, K. Mothulatshipi, T.J. Motlhamme, O.C. Nakedi, G. Nyawo, K.S. Osasan, M.P.S. Pretorius, A.M. Ramathunya, T. Randima, E.A. Rikhotso, A.I. Stoker, W. Todd, P.T. van der Meer, F.M. van Daalen, C.J.W. van Straten, S.S. Zwane.

Members who retired

Fellows

S.S. Absolom, L. Anderson, C.J. Fauconnier, R.G. Jurd, M.J. Kilbride, C.A. Lee, G.J.C. Young, P.S. Wentworth.

Members

B. Du Rand, A.W.B. Garner, A.W.J. Hancock, P.C. Pretorius, K.C. Spencer, D.W. Stofberg, G.R.W. Walker, M.J.C. Wittet.

Deceased

Honorary Life Fellow

M.D.G. Salamon.

Fellows

J.L. Taylor.

Retired Fellows

R.A.O. Chelius, W.R. Lawrie, P.A. Laxen, R.P. Plasket, N.J. Slement, G.J. van Jaarsveld, M.G.H. Yates.

Retired Associates

None.

Retired Members

R.L. Burger, M.L. Coetzee.

Associates

D.A.R. Duke.

Members who were reinstated

Reinstated as a Member

J.J. Ison, W.F. Kock, H. Mtegha, S.D. Thomson.

Reinstated as Associates

G. Kisbey-Green, A. Roodt, R.C. Snodgrass, M. Welthagen.

Reinstated as a Fellow

C.S. Russell, A.G. Smith. ◆