

Annual report

FOR THE YEAR ENDED 30TH JUNE, 2002

Council for 2001/2002

President

A.A.B. Douglas

President-elect

S.J. Ramokgopa

Vice-presidents

Senior

F.M.G. Egerton

Junior

Prof. T.R. Stacey

Immediate Past-president

Dr L.A. Cramer

Honorary Treasurer

J.A. Cruise

Members of Council

W.J. Abel	R.P. Mohring
B.C. Alberts	P.S. Mokgokong
Dr N.A. Barcza	Dr A. Mulaba**
R.D. Beck	A. Nesbitt
Prof. A.N. Brown	G.Y. Nisbet
Dr L.A. Cramer	N.M. O'Brien
J.A. Cruise	R.C.D. Phillis*
J.R. Dixon	R.G.B. Pickering
A.A.B. Douglas	S.J. Ramokgopa
M. Dworzanowski*	M.H. Rogers
F.M.G. Egerton	D.A.J. Ross-Watt
Prof. R.M.S. Falcon	C.M. Rule
C.E. Fivaz	G.L. Smith
Dr A.M. Garbers-Craig	A.A. Smithen*
Prof J.M.S. Geldenhuys	Prof T.R. Stacey
F.P.S.F. Guilherme	J.J. Sutherland
H.N. Gumede	C.A.F. Sweet
P. Hand*****	N.C.D. Trevarthen****
K.J. Hay	Prof J.N. van der Merwe
F.W. Human	D.J. van Niekerk
H.E. James	Dr W.H. van Niekerk
P.J. Knottenbelt**/*****	H.G. Waldeck
A.S. Macfarlane	I.J. Walton
Dr N.C. Machingawuta*	R.P.H. Willis
C.A. McInnes*	

*Co-opted members

** Representing Non-Corporate Members

***Observer (MMMA)

****Observer (AMMSA)

*****Observer (SACMA)

*****Observer (SACPS)

Branch Chairmen

Johannesburg Branch	A.S. MacFarlane
Free State Branch	F.P.S.F. Guilherme
Pretoria Branch	Prof. J.M.A. Geldenhuys
Western Cape Branch	A. Nesbitt
Mpumalanga Branch	J.J. Sutherland
Bushveld Branch	C.A.F. Sweet
Zululand Branch	I.J. Walton

Past-presidents serving on Council

B.C. Alberts	H.E. James
Dr N.A. Barcza	R.P. Mohring
R.D. Beck	G.Y. Nisbet
Prof. A.N. Brown	M.H. Rogers
J.R. Dixon	D.A.J. Ross-Watt
C.E. Fivaz	

Key objectives of the Institute

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

Arrangement of this Report

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

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

1. Interests of Individual Members

Portfolio Holder: S.J. Ramokgopa

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 practice 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 inter-changes*

Annual report

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

1.1 Membership Committee

S.J. Ramokgopa, Chairman
F.M.G. Egerton, Vice-chairman

Dr N.A. Barcza	R.P. Mohring
R.D. Beck	G.Y. Nisbet
Prof. A.N. Brown	N.M. O'Brien
Dr L.A. Cramer	R.G.B. Pickering
J.A. Cruise	D.A.J. Ross-Watt
J.R. Dixon	Prof. R.F. Sandenbergh
A.A.B. Douglas	Prof. T.R. Stacey
C.E. Fivaz	D.J. van Niekerk
H.E. James	

Membership

Members of the SAIMM comprise engineers, metallurgists, chemists, physicists, geologists, certificated managers, and technikon diplomats, 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 30 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 post-graduate 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 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 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 is being educated or trained in a manner approved by the Council.

When he no longer qualifies as a Student member, he 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 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 with regard to 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 that the Institute has on record the correct payment address.

Table 1

Summary of new applications and membership movements for 2001/2002 and comparison of membership grades and total membership 2001/2002

Membership grade	Members July 2001	New members	Transfers in	Transfers out	Reinstatements	Resignations	Deceased	Struck-off	Net gain/(loss)	Members June 2002
Honorary Life Fellow	34						1		-1	33
Honorary Fellow	4									4
Life Fellow	26					1	6		-7	19
Fellow	397	8	7	5		15	1	3	-9	388
Retired Fellow	145		5			5	5		-5	140
Life Member	1									1
Member	701	41	4	10	5	14	1	18	7	708
Retired Member	76		4			1	1		2	78
Associate	837	26	23	7	4	25	2	52	-33	804
Retired Associate	9		2						2	11
Student	277	38		23	2	6		48	-37	240
Company Affiliate	145	6				2			4	149
Total	2652	119	45	45	11	69	17	121	-77	2575

Benefits of Membership

Individuals derive various benefits from membership of the Institute:

- contact with fellow members
- special reduced fees when attending congresses, symposia, colloquia, conferences, schools, discussion groups, etc.
- notices of events promoting technology transfer, which also satisfies the need for continuing education
- a bi-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 regarding 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 bi-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 regarding 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

P.J. Knottenbelt, Chairman

F.M.G. Egerton, Vice-chairman

Dr R.M.S. Falcon

A.S. MacFarlane

Dr A.M. Garbers-Craig

Dr A.M. Mulaba

Dr G. Gerrans*

R. Tait*

*Co-opted members

Work pressures of the committee members hampered the year's activities. A meeting to determine priorities emanating from the 1999 'Engineers of the Future' workshop revealed that it was impractical for the committee and the SAImm to address many of the outcome issues from the workshop. Lack of participation of the committee members resulted in there being a minimal number of meetings. The Chairman asked to be relieved of his chairmanship due to his own work pressures and requested that new impetus be given to the committee by the appointment of another suitable volunteer. It is believed that this approach may revive the enthusiasm of members so that meaningful contribution can be forthcoming in the ensuing year. The committee did continue its effort to promote the minerals and metals industry through development of a revised poster and brochure that still needs refining. Further career promotion was carried out through advertising in the standard career brochures and through the SAImm web site. Work still needs to be done on updating the information package previously distributed to schools and libraries. The committee supported SET education by distribution in the Gauteng district, of micro practical science sets—the value of this initiative is still to be evaluated. The committee participated in the initiatives driven by Rosemary Falcon to facilitate the unified approach of all SET institutions to common problem areas. This latter drive is seen as very useful and the only way that meaningful contribution can be made by SAImm with its limited resources. The drive is expected through FEST. Whilst the progress of the committee was limited in 2002 we look forward to a more productive 2003. The contribution made by the few active members of the committee is greatly appreciated.

Annual report

1.3 Promotion of the SAIMM

Technical Events

I believe that our events (conferences, colloquia, schools, book launches and the like) are the best way of promoting our Institute and the most muscular method we have of fulfilling the main function of a learned society which is the dissemination of knowledge among its members and keeping them up to date with technological developments in their disciplines.

This year has been particularly successful as far as this aspect of our activities is concerned, as you will gather when the financial report is presented. Acknowledgement of the efforts of the conference co-ordinators, Mining and Metallurgical Technical Programme Committees and the leadership and direction provided by their chairmen is appropriate.

To further integrate our objectives we have commissioned our Career Guidance and Education Committee to concentrate on the accreditation of Institute events for recognition by the Engineering Council of South Africa's continuing professional development programme.

Mining, Minerals and Metals Professional Forum (M³ Professional Forum)

We persisted with this initiative and held quarterly meetings together with presentations on matters of topical interest. Attendance was however spotty and the main item on the agenda for the next meeting will be to debate the future of the initiative and the direction it should take.

Annual Banquet

This was held in conjunction with the Department of Minerals and Energy who used it as a platform for the presentation of their 'Excellence in Mining Environmental Management' (EMEM) awards. This event was adjudged a success from our feedback and attracted more than 1 000 guests.

Council of Mining & Metallurgical Institutions (CMMI)

I represented our Institute at their conference in Cairns, Queensland, Australia in May this year. Attendance was down to around 100, a far cry from the approximately 700 delegates who registered for their 1994 Congress at Sun City.

Prior to the conference a meeting chaired by the Chief Executive Officer of Rio Tinto was held to discuss the relevance of CMMI with special reference to their role in the development of the valuation codes for mineral resources and mining properties

The presidents of the Australian Institute of Mining & Metallurgy (AusIMM) and the SAIMM were the only voting members of the CMMI present and although this probably does not comprise a quorum the apathetic attendance constitutes a message in itself.

The Chairman remarked on the lack of minutes of the last meeting and led some desultory debate on the roles of CMMI in general and on the development of the Mineral Valuation Codes in particular. Consensus was that electronic communication had rendered the CMMI superfluous. Committees could confer via the internet. The costs of occasional meetings as demanded by developments would be met by the delegates' sponsoring institutions.

Journal

Professor Robinson's mantle as editor of this prestigious publication was passed onto Richard Beck who is amply filling the capable Professor's large shoes.

We have published eight issues during the year, each volume has been substantial and the number of foreign authors who are contributing is increasing and it is attracting material advertising revenues.

Professor Robinson continues to preface each issue with his apposite article 'Journal Comment'.

All this bodes well for our *Journal* and we acknowledge with appreciation the efforts of these two gentlemen and our editorial and publication personnel.

Awards

The Chamber of Mines discontinued their gold medal awards to the best student in the Faculties of Engineering and the Departments of Mining and Metallurgy at the Universities of the Witwatersrand and Pretoria.

We are advised that nature abhors a vacuum and this deficiency was made good by the larger players in our mining industry who agreed to cover the cost of providing the medals. The programme is administered by the Institute and the awards have been renamed the South African Institute of Mining and Metallurgy Gold Medal Awards.

This year we awarded a Gold Medal to the author of a paper published in our *Journal*. This is the first time since 1999 when a metallurgical paper met this standard. This year the contribution was in the mining category, the last time a Gold Medal was awarded for a paper in this discipline was way back in 1995.

All told a satisfactory year.

1.3.1 Mining, Minerals and Metals Professional Forum (M³ Professional Forum)

The Mining, Minerals and Metals Professional Forum consists of twenty-six member organizations representing the interests of professional employees within the larger mining, minerals and metals industry.

The Forum met three times during the course of the year. An Agreement of Collaboration and a Mission Statement were adopted.

Mr Andre de Klerk the Registrar of SACNASP addressed members on the implications of the new Natural Scientific Professions Bill for affected members. Dr Loraine Lotter a member of the Business Co-ordinating Forum for Sustainable Development and Dr Andrew Parsons of the Chamber of Mines of S.A. each addressed the Forum on the upcoming World Conference on Sustainable Development.

A schedule of Office Bearers, contact details and of events for the forthcoming year was prepared and circulated to members.

1.4 Awards and Adjudication Committees

Awards and Adjudication Committee—Mining

M.H. Rogers, Chairman

R.D. Beck

A.A.B. Douglas

F.M.G. Egerton

R.G.B. Pickering

G.L. Smith

Prof. T.R. Stacey

D.J. van Niekerk

R.P.H. Willis

Annual report

Awards and Adjudication Committee—Extractive Metallurgy

Dr L.A. Cramer, Chairman

R.D. Beck	Dr R.L. Paul*
M. Dworzanowski	C.M. Rule
Dr N.C. Machingawuta	Dr W.H. van Niekerk
C.A. McInnes	

*Co-opted members

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

This year the award is being made to Julian Ogilvie Thompson 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 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:

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*
	E.R.C. O'Connor*
	B.M. Roberts*

1934	J. Levin	A.A. von Maltitz*
	D.D. McWilliam*	T. Waterman*
	A.C.M. Cornish-Bowden*	J.W.V. Mortleman*
	H.E. Cross*	K. Rood*
	E.F. Laschinger*	A. Siff*
	E. Margo	O. Weiss*
1935	O.B. Swallow*	
1936	O. Deane*	A.H. Mokken
	T.L. Gibbs*	H.L. Monro*
	R.C.J. Goode*	R.M.F. Seawright*
	F.G. Hill*	A.C. Pigott*
	D.M. Jamieson*	J.S. van Zijl*
1937	D.J. Rogers*	L. Walter*
	W. Bleloch*	J.J. Klein*
	L.A. Bushell*	C.D. Storrar
	K.W. Findlay	
1938	V.C. Barnes	C.A. McKechnie*
	E.T.S. Brown*	J.A. Nixon
	R.S. Cooke*	E. Popplewell
	J.K.E. Douglas	C.G. Sowry*
	A.L.A. Forder*	E.W. Thiel*
1939	G. Armstrong-Smith	R.S. Pearson
	D.E.R. Ayres	D.C.J. Squirrell*
	E.H.D. Carman	R.F.J. Teichmann*
	W.G.H. Jackson*	I.S. van Eysen*
	T.A. Newman	S.J. Venning
1940	L.D.C. Bok*	G.D. Gettliffe*
	A.W.L. Brereton	G.G. Stanley
1941	A.H.H. Davison*	D. de V. Oxford*
	D.J. Forder	E. Pavitt
	A.R.C. Fowler*	A.C. Petersen*
	H.F.W. Ketelbey	E.R. Rudolph
	J.D. McNamara	P.W.J. van Rensburg*
	T.F. Muller*	
1942	R.E. Burnton*	O.L. Papendorf
	R.C. Espley-Jones	V.O. Steed
	N.M. Hayne*	J.E. van Leeuwen*
	R.T. Naudé	W.C. Walmsley*
1943	D.J. Molony*	R.P. Plewman
	J.D. McMorran	
1944	A.F. Dick	V.M. Reinecke*
	R.B. MacGillivray	A.S. Swartz
	L.J. Prince	A.H. Taute
	J.F. Reid	P.B. Weehuizen
1945	J.L. Curtis*	K.E. Steele*
	E.T. Pinkney	
1946	W.I. Spence	
1947	G.H. Grange	J.D. Pollard
	W.B. Howe	V.C. Robinson*
	J. Marr-Levin	A.N. Shand*
	C.J. Parr*	G.R. Still
1948	D.F. Foster	J. Pope*
	M.H. Grusd	N.A. Stacey
	P.A. Laxen	J.A. Tyser
	G.Y. Nisbet	
1949	G.P. Bennett	J.P. Hugo
	J.F. Curtis*	D.A. Immelman
	O. Davel	
1950	D.F. Grieve	R.P. Plasket
	B.E. Hersov	V.C. Ward
	D.G. Maxwell	
1951	Prof. D.G. Krige	N.C. Pope
	B.H.L. Leach	W.T. Ruhmer
	M.J. Martinson	T. Zadkin*
	W.D. Ortlepp	

• Deceased since becoming members of club

Annual report

Gold and Silver Medals

Papers published in the *Journal* from March 2001 to February 2002 by members of the Institute were considered for medals.

Gold Medals

A Gold medal was awarded to A. Daehnke, M. van Zyl and M.K.C. Roberts for their paper published in May/June 2001 issue of the *Journal* entitled 'Review and application of stope support design criteria'.

Silver Medals

Silver medals were awarded to the following:

A. Daehnke for his Transaction paper published in the March/April issue of the *Journal* entitled 'Addressing the variability of elongate support performance'.

The CSIR Division of Mining Technology for the suite of Transaction papers published in the special edition of the *Journal* in August. The seven papers were based on different aspects of a 'Simulated Rockburst Experiment' conducted by Miningtek on a deep level gold mine.

R.M. Whyte, N. Schoeman and K.G. Bowes for their paper published in the October issue of the *Journal* entitled 'Processing of Konkola copper concentrates and Chingola refractory ore in a fully integrated hydrometallurgical pilot plant circuit'.

R.T. Jones, G.M. Denton and Q.G. Reynolds for their paper published in the January/February issue of the *Journal* entitled 'Recovery of cobalt from slag in a DC arc furnace at Chambishi, Zambia'.

A.S. Macfarlane for his Transaction paper published in the January/February issue of the *Journal* entitled 'A code for the valuation of mineral properties and projects in South Africa'.

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	Dr A. Aiken	S.H. Pearce
	A.F. Crosse	J.P. Williams
	J. Littleton	
1923	Dr J. Moir	
1930	H.A. White	
1931	P. Cazalet	Prof. J.A. Wilkenson
	A. Whitby	
1932	J.R. Thurlow	
1934	Dr Wm. Cullen	A. McArthur Johnston
	W.R. Feldtmann	Prof. G.H. Stanley
	E.H. Johnson	
1938	G. Melvill	F.W. Watson
	S. Newton	
1941	J. Henderson	
1943	Sir R.N. Kotzé	
1946	Dr J. van N. Door	T.K. Prentice
	C.J. Gray	R.S.G. Stokes
	Jas Gray	Prof. S.J. Truscott
	J.V. Muller	Prof. G.A. Watermeyer
	Prof. John Orr	J.A. Woodburn

1951	W.W. Mein	
1953	Dr P.E. Hall	Prof. B. St. J. van der Riet
1954	Prof. C. Biccard Jeppe	
1955	Dr P.N. Lategan	
1958	R.A.H. Flugge-de-Smidt	
1960	G. Hildick-Smith	A.J. Walton
	Dr A.J. Orenstein	F. Wartenweiler
	Dr H.J. van Eck	
1961	Dr C.S. McLean	
1966	Dr F.G. Hill	Dr F. Meyer
1970	H.E. Cross	D.M. Jamieson
	R.C.J. Goode	
1974	R.J. Adamson	C.J. Irving
	Dr W. Bleloch	J.F. Reid
	H. Britten	
1975	Dr M. Barcza	Dr J.T. McIntyre
	Prof. J. de V. Lambrechts	
1976	D.G. Maxwell	Lt. Col. A.R.O. Williams
1978	J.K.E. Douglas	V.C. Robinson
	Prof. D.D. Howat	
1979	Dr J.P. Hugo	P.W.J. van Rensburg
1980	Hon. S.P. Botha	Prof. R.P. Plewman
	Hon. P.G.J. Koornhof	Dr R.E. Robinson
	A. Louw	
1982	Dr M.G. Atmore	
1983	C.S. MacPhail	
1985	Dr P.R. Jochens	Dr M.D.G. Salamon
	D.G. Malan	
1986	Prof. D.G. Krige	G.Y. Nisbet
1987	Prof. A.N. Brown	
1988	J.D. Austin	D.A. Viljoen
	Prof. R.P. King	
1989	P.A. von Wielligh	
1990	Prof. S. Budavari	Prof. G.T. van Rooyen
	L.W.P. van den Bosch	
1991	Dr H. Wagner	
1992	Dr J. Lurie	
1993	No award	
1994	B.C. Alberts	
1995	R.D. Beck	H.E. James
	P.R. Janisch	
1996	Prof. R.J. Dippenaar	
	J.S. Freer	
	H.G. Mosenthal	
1997	J.A. Cruise	
1998	D.A.J. Ross-Watt	
1999	No award	
2000	Dr N.A. Barcza	J.R. Dixon
	R.P. Mohring	
2001	M.H. Rogers	D.J. van Niekerk

In 2002 this award is to be conferred on Dr L.A. Cramer, Prof. C.T. O'Connor, Prof. R.F. Sandenbergh, and J.H. Selby for their outstanding contribution to the Institute over a number of years.

Annual report

Student Prizes

Prizes were awarded to the following students for the best student dissertations in part fulfilment of the B.Sc. (Eng.) degree:

Mining

No award was made in 2002.

Other Prizes

Other prizes, made to students at the Universities of the Witwatersrand and Pretoria, were presented at faculty prize-giving ceremonies held at the respective Universities.

The prize winners were as follows.

University of the Witwatersrand

Prestige Prize

Mining	M. Mobwano
Metallurgy	No award

University of Pretoria

Prestige Prize

Mining	G.M.J. van Heerden
Metallurgy	J. Petrick

Technikon Prizes

Prestige Prize

Metalliferous Mining	E.T. Ngwenya
B. Tech Mining Engineering	W.L. van Aarde

University of Cape Town

Prestige Prize

Chemical Engineering	O. Amosun
Materials Engineering	I. Topic

University of Stellenbosch

Prestige Prize

Chemical Engineering	A. Roux
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Cape Technikon

Prestige Prize

Chemical Engineering	R. Kroukamp
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The prizes for the Universities of Cape Town and Stellenbosch, and the Cape Technikon are awarded at the Western Cape Branch Annual General Meeting.

Atlas Copco Travel Grant

No award was made in 2002.

Outokumpu Travel Grant

No award was made in 2002.

1.5 Banquet Committee

J.A. Cruise, Chairman

Dr L.A. Cramer	R.P. Mohring
J.R. Dixon	S.J. Ramokgopa
A.A.B. Douglas	M.H. Rogers

Our banquet has become *the* social event of the mining calendar and this year we hosted 1 200 guests at the International Conference Centre in Sandton. With our President being from the Douglas clan, our theme this year was Celtic. The honoured guests were piped in by three pipers in full regalia. The entertainment was a Scottish pipe band and highland dancing and we danced till the wee hours to the tunes of an Irish fusion band.

During the banquet we hosted the presentation of the EMEM awards. Excellence in Mining Environmental Management awards by the Department of Minerals and Energy. Our banquet provided an excellent platform for their presentation and confirmed the Institute's commitment to the environment.

Schedule of Mining Technical Conferences, 2001/2002					
Type of Event	Date	Title	Convenor	Venue	Attendance
Colloquium	29 August 2001	Open pit and surface mining	W. Waldeck	Mintek	138
International	17-19 September 2001	RaSiM 5	G. van Aswegen	Magaliesberg	147
International	25-28 September 2001	6th Int. Symposium on Mine Mechanization & Automation	R.P.H. Willis	Sandton	320
Colloquium	18 October 2001	Student Colloquium	A. Macfarlane	S.A. Nat. Museum	92
Colloquium	26 February 2002	Knowledge and Technology Transfer	R.P.H. Willis	Mintek	90
Colloquium	19-20 March 2002	Valuation of mineral projects and properties	A. Macfarlane	Mintek	87
Colloquium	23-24 July 2002	New rock breaking and excavation technologies	J. Truter	Mintek	TBC
International	29-31 July 2002	2nd Int. Seminar on surface support liners	T.R. Stacey	Sandton	TBC

Annual report

2. Technical Meetings

Portfolio Holder: F.M.G. Egerton

2.1 Technical Programme Committee—Mining

R.P.H. Willis, Chairman

W.J. Abel	P.P. Mwasinga*
Dr W. Assibey-Bonsu*	R.G.B. Pickering
D.H. Diering*	J.L. Porter*
A.A.B. Douglas	G.L. Smith
F.M.G. Egerton	Prof. T.R. Stacey
D.R. Fleming*	J. Truter*
Prof. M. Handley	Prof. J.N. van der Merwe
Dr G.V.R. Landman*	J.N. Wallington*
A.S. Macfarlane	

*Co-opted members

Yet another successful year is reported from the Mining TPC with five colloquia and three international symposia being held for the benefit of members as listed. A modest profit was also achieved. These colloquia and symposia also provide valuable publication material for the *Journal*. The annual student colloquium continues to be an important event on the SAIMM diary. This year promises to be more inclusive with technikon involvement. The committee was very active this year with the regular monthly meetings often overflowing. A major investment was made at the end of the year with the purchase of projector equipment, which should resolve the problem experienced at many colloquia of laptop change over delays between papers. For the coming year planning for the international events Surface Mining 2002 (October 2002), APCOM 2003 (May 2003) and ISRM 2003 (September 2003) are well advanced. Thanks must go to all committee members, especially those that chaired colloquia and to the secretariat and the DTP department for professionally organizing events and producing high quality publications.

2.2 Technical Programme Committee — Extractive Metallurgy and Metals Technology

M. Dworzanowski, Chairman
N.M. O'Brien, Vice-chairman

M. du Plessis	C.A. McInnes*
Dr A.M. Garbers-Craig*	Dr A.M. Mulaba
Prof. J.M.A. Geldenhuis*	Dr W.H. van Niekerk
K.J. Hay	C.M. Rule
F.W. Human	Dr L. Strydom
Dr N.C. Machingawuta*	

*Co-opted members

The 2001/2002 year included a number of very successful conferences. It started with the First Southern African Base Metals Conference held at Victoria Falls in Zimbabwe in July 2001. There were over 30 excellent technical papers presented at a well attended and well received conference. Its success has led to the organizing of the Second Base Metals Conference scheduled for July 2002 to be held at Sun City. This conference will cover mining aspects in addition to the original metallurgical content.

There was a pyrometallurgical school held in August 2001 covering a wide range of topics in the ferrous and non-ferrous sectors.

In November 2001 'Developments in metallurgical processing in the platinum industry' conference was held in

Rustenburg. There were over 30 presentations made at a well attended and well received event. There was participation from all the PGM producers, equipment suppliers, project management companies, etc. Its success has led to it being scheduled as a regular bi-annual event.

The International Coal Preparation Congress held in March 2002 was a success in terms of papers presented, number of delegates attending (local and overseas) and the positive response. The same was true for the International Solvent Extraction Conference also held in March 2002.

A number of events are planned for the second half of this calendar year. Apart from the Second Base Metals Conference in Sun City which was mentioned earlier, there will be colloquia and conferences covering solid/liquid separation, gravity concentration, metallurgy for small mining operations and fluidization.

Members of the TPC Metallurgy worked very hard and everyone made valuable contributions during the year. The TPC Metallurgy believes that next year is going to be a great success and more cooperation will take place with the TPC Mining, with the Western Cape SAIMM and with the MMMA to enable the organisation of events of greater interest and thus attract a wider audience.

2.3 Committee for the Environment

A.A. Smithen, Chairman

J.S. Freer*

D. Limpitlaw*

Dr A.M. Mulaba

*Co-opted members

The function of the Committee is to ensure that environmental matters relevant to the mining and metallurgical industries are dealt with as part of the Institute's activities. Following a slow start to the year the Committee has been active in the following areas.

- ▶ Continued support for the Excellence in Mining Environmental Management (EMEM) awards, with representation on the adjudication committee
- ▶ Revision of the Institute's Environmental Vision and Strategy, to be more representative of current environmental trends
- ▶ Strengthening of the Committee, focusing on environmental input into the technical programmes of the Mining and Metallurgy Technical Programme Committees on which the Committee for the Environment has had representation since May 2002.

3. Publications

Portfolio Holder: Prof. T.R. Stacey

R.D. Beck, Chairman

Prof A.N. Brown	Prof. T.R. Stacey
F.M.G. Egerton	H.G. Waldeck
Prof. R.M.S. Falcon	L. Woollacott
C.M. Rule	

3.1 Journal

Eight issues of the *Journal* were published this year. In

Annual report

addition the bi-monthly issues, a special issue was published in August 2001 that covered work carried out by CSIR-Miningtek on a simulated rockburst experiment. In February 2002, a special students' edition was published that covered papers written on project work carried out in partial fulfillment of their degrees at the universities of the Witwatersrand and Pretoria, which had been selected from a SAIMM colloquium. The extra issue in August put additional load on the DTP department, when they were also putting together papers for two international conferences. This caused issues to run late from that time on and was only really caught up in May/June 2002. A recent innovation initiated in the Jan/Feb issues was the Technical Note. These are short papers with a clear technical focus and have not been refereed.

There have been a good flow of transaction papers during the year and a number of conferences to take *Journal* papers from. There were an increasing number of papers from non-RSA authors, but the technical standard is often of such a level, that they have been rejected, although efforts to publish them as *Journal* papers and possibly as a Technical Note have been made.

23 Transaction papers, 29 *Journal* papers, 3 Technical notes and 7 student papers were published this year. 18% of the papers were from non-RSA authors. The ratio of Transaction to *Journal* papers follows a consistent trend of recent years.

Nearly 3 mining papers have been published for each metallurgical paper. Many potential metallurgical papers are published in more specialized subject publications than ours. There were no papers on environmental topics this year.

Advertising has maintained its higher levels and finished well ahead of budget, with the additional issues also drawing good advertising revenue. This is thanks to Harriet Isserow, our advertising agent and the support we receive from companies in the minerals industry. Professor Robbie Robinson has continued with his thought-provoking *Journal* comments throughout the year.

Abstracts of papers published in the *Journal* have been added to the website during the year. Investigations as to the best way to provide access to papers, current and past on the website were not complete at year-end.

The load on the DTP department has been high and even so Dawn van der Walt and Zuliakha Mohamed maintained the high standard of *Journal* layout throughout the year, for which we are grateful.

I should like to thank Ayanda Velleman, Publications Secretary for her hard work, the members of the Publications Committee for their advice, all those who gave of their time as referees and all the staff at the Secretariat for their input during the year.

4. Regional Development

Portfolio Holder: S.J. Ramokgopa

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 Regional Development Committee

Although no formal meetings were held by the Committee, feedback and updates were received from the Branches.

Branch Chairmen were encouraged to attend at least one Council meeting per annum, to report on the progress within their Branches.

4.2 SAIMM Branches

4.2.1 Johannesburg Branch

A.S. Macfarlane, Acting Chairman

Dr L.A. Cornish P.P. Mwasinga

D.H. Deiring S. Rupprecht

J.R. Dixon G.L. Smith

V. Duke P.E. Smith

D.R. Fleming A.R.T. Thin

The year 2001 to 2002 was a successful one for the Johannesburg Branch, although not quite as active as the year before.

A number of technical evening presentations were held through the year, all of which were well attended.

In July of 2001, an extremely enlightening presentation was given by Ms May Hermanus, the Chief Inspector of Mines, on her views on the current state of occupational health and safety in the mining industry. The extremely important nature of the topic was illustrated by the large and diverse audience that attended.

In August, Mr Neal Froneman gave a very interesting and informative presentation on the Harmony transformation: a description of the success story of Harmony Gold in the gold mining industry.

A review of current collaborative research initiatives was given by CSIR Miningtek, through Dr Ray Durrheim and Johann Beukes, which gave a very clear resumé of the work done by Deepmine, Coaltech and the emerging Futuremine projects.

Dr John Sturgul from the USA gave a very interesting presentation in December, on the application of simulation techniques in the Minerals Industry.

This was followed in December by a presentation on the valuation of mineral properties in South Africa, which was part of a process being undertaken by the SAIMM to develop a world standard in this regard.

South African Chrome, through Mr Terry McConnachie, gave a most interesting presentation on the development of SA Chrome's operations, which included a comprehensive review of their market research to establish their market niche in this competitive industry.

A very well-attended meeting in May had the subject of the development of platinum resources in the Eastern limb of the Bushveld Igneous Complex, given by Mr Chris Sheppard of Anglo Platinum. This was very comprehensive and informative for the large audience.

In June, Rina Louise Pretorius gave an extremely

Annual report

enlightening talk on the important subject of conflict diamonds, from the perspective of the South African Government and the South African Diamond Board.

Audience attendance at events varied from 28 to 130, and illustrated on the one hand the importance of targeting topical and important subjects, but unfortunately on the other hand, a growing shortage of time for busy professionals in the industry.

The Committee will have to strive to face the challenge of finding stimulating and diverse topics, that are of interest to a wide range of stakeholders.

As Chairperson, I would like to thank the Committee for their work during the year. We tried to overcome the problem of meeting attendance by the use of e-mail on an informal basis, but this did not work well.

This year, the Committee will need to be much more active, and perhaps a small group of hard-workers will be better than a wide industry coverage in terms of membership.

As far as the year ahead is concerned there are some important developments.

- ▶ The Branch is in contact with the Perth Branch of the AusIMM, to reconstitute the student exchange scheme. This will happen as from December of 2002.
- ▶ A new development is a liaison with the GSSA, to develop a 'school' on resource and reserve reporting, and valuation issues, which will first be a Johannesburg joint event, and which will then be rolled out jointly to other branches, on a joint basis.

The student colloquium which was always a popular event, has now grown into a TPC event as a result of its own success, after last year it was held as a joint event between the Pretoria and Johannesburg Branches. So successful was this full day event that a special student edition of the *Journal* was published.

Owing to problems with the e-mail of late, we have not as yet finalized the Committee for the new year, but I will be standing as the Acting-Chair in the new year, until such time as we formalize the new committee. This had been due to be done on the 1st August, but I fear the technical communication problems may cause a delay in this.

I would like to thank Ginette Oliver for her hard work during the year, and the secretariat in general for their support.

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

Finally I would like to thank the outgoing President for all his hard work during his year of Office, and on behalf of the Branch, welcome the President-elect to his tenure of office.

4.2.2 Free State Branch

F.P. Guilherme, Chairman

J.J.H. Bester	S.S. Smit
P.A. Faber	M.J. Steyn
J. Ferreira	C. Waugh (Secretary)
M.N. Glasspool	E.N.D. Westgate
J.J. Jooste (Secretary)	D. Wright

The Free State Branch remains in existence, although at times only just, since the committee needed re-adjustment from time to time. The core of the committee however, ensured that we

remained active throughout the year. The acquisition of Freegold during November created a number of changes mainly due to transfers.

A number of events were scheduled during the 2001/2002 period for the Free State Branch of the Institute. The events included Technical visits, General Meetings and Committee meetings. All committee meetings scheduled actually took place and credit must go to all remaining committee members.

The calendar of events for 2001/2002 were tabled.

4.2.3 Pretoria Branch

Prof. J.M.A. Geldenhuis, Chairman

Prof. T. von Moltke, Vice-chairman

Prof. M.F. Handley

E. Shaw*

H. Moller*

Prof. J.N. van der Merwe

* Student representatives

The Pretoria Branch again had a successful year during which a number of meetings and other functions were held. The committee functioned well owing to the enthusiastic support and co-operation of its members.

The Branch, together with the Departments of Materials Science and Metallurgical Engineering and of Mining Engineering at the University of Pretoria, again presented a series of Metallurgical Forums and Mini Symposia. These events were structured to be of interest to the students and senior members of the Institute with ample time for discussions. The attendance at these events was typically 60 people. Cocktail parties were held after these meetings and served as a get-together of the members and allowed the student members to meet with senior engineers from industry. We were again fortunate to have a number of prominent speakers at these events.

The first event was the Annual General Meeting of the Branch and was held on 25 July 2001. It was indeed a pleasure to have the then President-elect, Mr Alastair Douglas, with us. Alastair gave a very informative talk on Cementation Mining. On the same afternoon, four Bateman presentations were made by Mr Mike Burks, Mr Tertius Peters, Dr Brian Latto and Mr Mark Cresswell on topics such as molecular recognition technology, refractory freeze linings and DMS testwork on base metal ores.

The Pretoria Branch again hosted the Research Seminar of the School of Mining and Mineral Sciences at the University of Pretoria on 12 October 2001. Prof. Jan Malherbe, Vice-principal of the University of Pretoria opened the event and the guest speaker, Mr G. Esterhuizen of Sasol Coal, gave an informative geology-orientated presentation.

On 31 October 2001, Dr Rod Knutsen of the University of Cape Town, talked about the research activities related to thermomechanical processing. As a result of this meeting, a seminar on Physical Metallurgy (including physical metallurgy research topics at South African universities) will be organized during 2002.

We started off in 2002 (13 February) with a presentation on 'Softening and Melting of Ore in the Blast Furnace and Sustainable Ironmaking using Charcoal', by Prof. Dick Fruehan of the Center for Iron and Steel Research at the Carnegie Mellon University, Pittsburgh. This was followed by a lively debate on the future of the blast furnace and the environmental impact of coal energy sources.

Annual report

Free State Branch Calendar of Events, 2001–2002			
Date	Event	Description	Venue
19 June 2001	AGM	AGM	Oppenheimer Golf Club
2 August 2001	Meeting	Committee Meeting	O.P.G.C
27 September 2001	General Meeting	Social life of a metallurgist in Mali	O.P.G.C
4 October 2001	Meeting	Committee Meeting	O.P.G.C
17 October 2001	General Meeting	Membership dinner recruitment drive—Alister Douglas	O.P.G.C
7 February 2002	Meeting	Committee Meeting	O.P.G.C
5 March 2002	General Meeting	Future of SAIMM in the Free State	O.P.G.C
4 April 2002	Meeting	Committee Meeting	O.P.G.C
30 April 2002	General Meeting	Jet Demolition and slide show	O.P.G.C
24 May 2002	Technical Visit	High pressure drilling	Bambanani Mine
6 June 2002	Meeting	Committee Meeting	O.P.G.C
28 June 2002	Technical Visit	Underground visit and plant visit	Target
24 July 2002	AGM	AGM at St Helena underground cellar	St Helena Mine

On 13 March Mr Christo de Klerk of the Mines Rescue Services South Africa, gave an interesting talk on the activities of the Mines Rescue Services in South Africa.

On 10 April Prof. Dave Morgan of the Institute for Applied Materials at the University of Pretoria, made a very interesting presentation on the ultimate clean coal for the Eskom pebble-bed modular reactor. This innovative project is an interesting alternative for electricity generation and resulted in a interactive technical discussion.

We closed the activities of the Branch with a presentation on 'Technology in deep level mining' by Mr Gerhard Potgieter of Anglovaal. It was interesting to note that by applying the latest technologies in deep level mining at the Target mine, the viability of this project is enhanced.

4.2.4 Western Cape Branch

A. Nesbitt (Chairman)

Prof. C.T. O'Connor (Vice-chairman)

Dr D. Bradshaw (Secretary/Treasurer)

Prof. C. Aldrich

Prof. F.W. Petersen

Dr D. Deglon

Dr M. Powell

Prof. P. Gaylard

Prof. P. Slatter

M. Harris

P. van der Plas

Prof. R. Knutsen

A. van der Westhuizen

Dr C. Lang

M. Winter (Branch Secretary)

Prof. L. Lorenzen

The year started with the highly successful, annual Mineral Processing Conference that was held on the 2nd and 3rd of August 2001. This is the 20th successive conference to be held in the Cape and as an annual event, it has found its way into the calendars of many international mineral-processing researchers. Twenty-eight per cent of the conference attendees were from South African tertiary educational institutions, a third were from industry and the balance came from beyond our national borders. Some of the countries represented were Australia, Canada, Turkey, Finland, USA, UK and the Netherlands. The plenary lecture was given by the renowned Prof. Jameson of the University of Newcastle, Australia and

was entitled 'The flotation of coarse and ultrafine particles'. A special thanks has to go to the major sponsor of this event, Anglo Platinum and our secondary sponsors; Afrox, Akzo Nobel, Bateman, and Senmin. As in the past a workshop was hosted before the conference and that year it was on the subject of 'Challenges in Metallurgical Accounting and Information Management'. There was a marked improvement in the attendance of this workshop compared to that of the previous, giving our technical committee valuable information regarding the preferences of the South African mineral processing industry. Based on this experience the committee have selected 'Environmental and Water Issues' as the potential workshop for the 2002 Mineral Processing Conference. The AGM of our Branch was held as usual during that conference, on the evening of the 2nd of August. The committee commended the out-going Chairperson Mr Jacques Eksteen on the fine job that he had done during the course of the year and Mr Allan Nesbitt was elected as new Chairperson with Prof. Cyril O'Connor in the position of Vice. All members were re-elected unopposed and Mr Paul van der Plas was brought in as a new committee member.

The year 2001/2002 saw the Branch increase the tempo of arrangements for the holding of the International Mineral Processing Conference of 2003. The final dates of the conference have now been confirmed as being the 28th September to 3rd October and the venue is to be the New Cape Town Conference Centre that is presently under construction, but should be completed in time for the conference. To date approximately 700 individuals have shown interest. The deadline for abstracts had been set for January 2002 with 490 being received from 42 different countries. Every continent of the world was adequately represented. The technical committee recently undertook the task of assimilating the abstracts and experience gleaned from the annual Mineral Processing Conference has stood them in good stead. An extended technical committee has been chosen that will undertake the gargantuan task of assimilating the papers when they arrive. I wish them well, as the difficulties they will experience in the completion of this task will be challenging, especially the matter of correct technical English. Two post-conference tours

Annual report

have also been arranged and at this stage Tour One will be to the North West Province with a visit to the Angloplatinum and Lonmin operations being envisaged. Tour two will be to Mpumalanga and will include visits to the Kruger National Park as well as to Foscor and PMC operations in the area. The official website of the conference came on line during the course of this year and the technical committee is satisfied that it will effectively be able to communicate with all participants through this medium. A meeting of the international steering committee will be held in Cape Town early in August 2002, and will coincide with the annual Mineral Processing Conference.

The annual committee dinner was organized by Dr Dave Deglon and was held at Emily's at the Waterfront on the 26th April. It generated a large turn-out of committee members and invited guests. Although the venue and setting were excellent choices it was felt by most in the committee that the service was less than satisfactory. Our thanks go to Dr Dave Deglon for his efforts.

Preparations for the annual Mineral Processing Conference of 2002 to be held on August the 1st and 2nd are complete and at time of writing there would appear to be interest from the usual quarters. Akzo Noble has committed to sponsorship for which they are duly thanked. I am sure that the 2002 conference, the twenty-first from inception, will mark the advent of the coming of age of this event. It has been unanimously decided that the annual Mineral Processing Conference will not be held in 2003 as it was thought this might interfere with the IMP Conference. Being awarded the IMPC is indeed a fitting honour to a Branch that has, through two decades, honed its skills under difficult circumstances and a special word of praise goes out to those that have been involved in this annual conference since its inception.

I would like to thank the SAIMM Council and the President, Mr Alastair Douglas as well as the SAIMM secretariat for their support during the past year and hope that we can rely on their continued support during this next exciting year. It is with great sorrow that we bid farewell to Francis Petersen, a Past Chairperson and active member of the Branch, who has left the Cape Province to take up a post at Mintek. His sterling efforts for the promotion of our Branch are acknowledged and he will be greatly missed. I would like to give a special thanks to Mrs Meg Winter without whom most of the activities of the Branch would go astray. Meg has been involved with the conference organisation for many years and her name has become synonymous with all our conference activities not just within South Africa but also beyond our borders. Her input for IMPC 2003 cannot be overstated and without her help our committee would be lost.

Finally, I would like to take this opportunity to thank all on the committee that have selflessly assisted me during the course of this year. I hope that you will all remain on the committee for the following year that is certain to be most eventful and probably the most important since its inception.

4.2.5 Mpumalanga Branch

J.J. Sutherland, Chairman and Secretary
T. Mkatshana, Vice-chairman
R.C.D. Phillis, Immediate Past-chair

K.T. Bladwell
P. Gericke

R. Jennings

Activities in the Branch declined drastically during the past year. This is a continuation of the trend of the previous year.

The inability of the Branch to attract senior role players in the local industry to serve on the committee has seriously undermined the activities of the Branch. This has resulted in an extremely poor response to the planned activities and therefore these activities were cancelled.

Regrettably Mr A. Henderson resigned from the committee during the year after many years of service to the Branch and the Institute. I wish to thank him for the valuable contribution he has made. I also wish to thank the Branch committee members for their support and effort during a difficult year and wish the incoming chairman all the best for the next year.

4.2.6 Bushveld Branch

C.A.F. Sweet, Chairman

The previous year did not see a lot of activity within the branch. The previous year was one of disappointing attendances at arranged functions where the majority of attendees were from outside the area. The immediate past period also saw the chairman relocating from his previous place of employment and all the disruption that goes with that.

The New Year holds much promise with several activities already well advanced in the organizing stage and the details will soon be circulated. Although the area did not have much activity in the form of visits, a strong recruitment drive was instigated and follow-up is in progress on the potential members. This year will see further focus on recruitment within the area.

4.2.7 Zululand Branch

I. Walton, Chairman
E. Williams, Treasurer
Member: E. Clare

The reluctance to travel after hours due to the security situation combined with the increasing workload of the members in the Zululand area has negatively influenced the participation in our monthly meetings. We had hoped to host more combined presentations with the other professional bodies in the area but these did not materialize. In spite of this however, the Branch has managed to host several very interesting presentations on a wide variety of topics.

Presentations that were held during the year were,

- ▶ 'The manufacture and use of anti-oxidants' by Mr Geoff Blewitt from AECI Aroma and Fine Chemicals
- ▶ Mr Vlam du Preez from Fintcast Refractories gave two presentations on 'Refractory Failure Analysis'
- ▶ Branch members were invited to attend a presentation by the Mechanical Engineering Equipment Exhibition group
- ▶ Mr Les Bedser from RWI Radio Wave Systems gave a presentation on the use of radio waves for measuring slag and iron bath heights in a furnace.

Branch Activities

The annual SAIMM Zululand Branch golf day was held at Richards Bay Country Club. By all accounts the day was a success and enough money was raised to continue with the Branch activities for the rest of the year.

The Branch is negotiating with several high schools in the area to donate trophies for achievement in the sciences.

Annual report

A fund-raising Mountain Bike race around the golf course has also been scheduled.

In conclusion I would like to thank all the companies who have provided generous sponsorship throughout the year and to Richards Bay Country Club for their continuing support.

5. Engineering Science and Technology in South Africa Portfolio Holder: R.P. Mohring

5.1 Engineering Council of South Africa (ECSA)

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

The Institute nominates members on the Council of ECSA, and also nominates members to the registration and professional advisory committees for mining and metallurgy.

During the past year, these committees continued their important work of screening the qualifications and practical experience of applicants for registration as Professional Engineers.

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

Professional Advisory Committees

Registration Committee

<i>Mining</i>	<i>Metallurgy</i>
R.P. Mohring	Prof. R.F. Sandenburgh

PAC Mining

Prof. A.N. Brown	Prof. R.P. Plewman
J.A. Cruise	M.H. Rogers
A.A.B. Douglas	D.A.J. Ross-Watt
R.P. Mohring	Dr O.K.H. Steffen
R.C.D. Phillips	D.J. van Niekerk

PAC Metallurgy

Dr N.A. Barcza	Dr A.K. Haines
R.D. Beck	H.E. James
Dr L.A. Cramer	Prof. R.F. Sandenbergh
Prof. R.H. Eric	Dr W.H. van Niekerk
K.J.R. Ford	D.I. Watson

Legislation aimed at integrating the Built Environment professions in South Africa was enacted last year. This legislation provides for a Council for the Built Environment to ensure co-ordination and consistency in policy making amongst professions. The aim was to more inclusivity by including in the Councils, representation by the State and the public.

The new council has been appointed and is fully operational and the CBE has been constituted.

In the interim all sub-committees responsible for the registration of Professional Engineers, Professional Technologists, Professional Technicians and Professional Certificated Engineers are carrying out their functions as in the past.

A major step forward in the international recognition of engineers was taken with the launch of ECSA's international register whereby Professional Engineers registered with ECSA

can now apply to the Council to be registered on the International Register of Professional Engineers. Similar initiatives are being negotiated for the Technologist and Technician categories. Members who wish to obtain more information should visit the ECSA website on www.ecsa.co.za.

The SAImm have been very active during the year in providing both administrative support and reviewers for the conduct of professional reviews which now form part of the registration process.

The SAImm remain actively involved in the work being undertaken by the Standards Generating Body for Engineering.

5.2 Engineers' Liaison Committee

<i>Representative</i>	Prof. R.F. Sandenbergh
-----------------------	------------------------

The Pretoria Engineers' Liaison Committee is the rallying point for the Pretoria Branches of the learned engineering societies. It is with sadness that I have to report the death of Dr William Cronje, who for a number of years acted as chairman of the committee. At its last meeting of the committee it was proposed that its future activities be coordinated by the South African Academy of Engineering and that the committee as such will cease to exist. The 39th Annual Hendrik van der Bijl Memorial Lecture will take place later this year at the University of Pretoria and will be organized by the South African Institute for Mechanical Engineers.

5.3 South African National Council on Tunnelling (SANCOT)

<i>Representative</i>	Prof. T.R. Stacey
<i>Alternate</i>	J.A. Cruise

SANCOT continues to be an active member of the International Tunnelling Association (ITA). Further to the report of last year, it now has a member on the ITA Executive Committee. SANCOT provides input to various ITA Working Groups, and operates its own committees on shotcrete specifications, hydraulic roughness in tunnels, exploratory works, legal requirements and contractual practices.

Apart from current activities on the Lesotho Highlands Water Project, and two minor tunnelling contracts in progress, civil tunnelling in southern Africa continues to be depressed. This has resulted in a decrease in interest in SANCOT affairs and resignation of some members. Of particular concern is the continued limited or non-participation from the major owner organizations such as Transnet, the Department of Water Affairs and Forestry and the Department of Transport. This represents a challenge to SANCOT for the future. It is hoped that the proposed Gautrain will generate renewed interest in civil tunnelling.

6. State Liaison

Portfolio Holder: F.M.G. Egerton

6.1 Mining Qualifications Authority (MQA)

Representatives D.J. van Niekerk

The Standards Generation Body (SGB) for the Mining and Minerals Sector, registered with National Standards Body 06: Manufacturing, Engineering and Technology, is responsible for setting competency standards (unit standards and

Annual report

qualifications) for the SA Mining and Minerals Sector (M&MS). The main achievements for the year under consideration include the following:

- ▶ 500 additional unit standards registered on the National Qualifications Framework (NQF)
- ▶ another 190 unit standards awaiting gazetting
- ▶ registration of the first 10 new generation qualifications on the NQF
- ▶ numerous other draft qualifications undergoing internal validation
- ▶ significant progress in respect of the finalization of the unit standards matrix
- ▶ preparation of draft framework of qualifications which gives expression to the competency needs of the M&MS, and
- ▶ ratification by the stakeholders of the draft framework of qualifications at 10 x Road Shows during June/July 2002.

The Engineering SGB is registered with the SA Qualifications Authority to register generic engineering competency standards for levels 4 to 8 on the NQF. To date the Standards Generation Groups have produced the following generic draft Stage 1, non-unit-standard-based qualifications:

- ▶ competent engineer
- ▶ competent engineering technologist
- ▶ competent engineering technician, and
- ▶ competent certificated engineer.

The ESGB also developed the range statements for the said generic engineering competency standards which is a breakthrough in terms of establishing a portfolio and range of engineering competency standards.

The MQA is registered as a Sector Education and Training Authority for the Mining and Minerals Sector. The work in progress follows the Sector Skills Plans and Workplace Skills Plans which have been approved by the SAQA. Employers who have complied with implementation criteria, have been receiving paybacks in the form of levy grants.

The MQA is registered as a Sector Education and Training Authority for the Mining and Minerals Sector. The work in progress follows the Sector Skills and Workplace Skills Plans which have been approved by the SAQA. Employers who have complied with implementation criteria, have been receiving paybacks in the form of levy grants.

The MQA is also registered as an Education and Training Quality Assurer for the SA M&MS. In excess of 100 Assessors which have been trained and assessed competent in terms of the relevant unit standards.

The M&M SGB intends implementing the newly promulgated Fall-of-Ground regulations as a lead project to test the MQAs ability to introduce new competency standards in the Mining Sector, with special attention to those requiring competent persons to perform certain roles and responsibilities.

7. International Liaison

Portfolio Holder: A.A.B. Douglas

Key Performance Areas

To achieve its objectives, the SAIMM

- ▶ *participates in and represents South Africa on bodies such as the Council of Mining and Metallurgical Institutions (CMMI), the Iron and Steel Society Inc (ISS), the Mining, Metals & Minerals Society (TMS), and together with Mintek on Infacon*
- ▶ *appoints Corresponding Members in areas such as Australasia, Botswana, Brazil, Canada, Chile, Europe, 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 Council of Mining and Metallurgical Institutions (CMMI)

National Representatives

A.A.B. Douglas
Dr L.A. Cramer
Prof. C.T. Shaw
Prof. D. Buchanan

Alternates

7.2 APCOM

National Representative

Dr F.A. Camisani-Calzolari

The 30th APCOM Symposium was held in Phoenix (Arizona, USA) in February 25–27, 2002. A total of 77 papers were presented covering the fields of emerging technologies/E-commerce/internet, geostatistics, mine planning and design, remote sensing/GIS/GPS, simulation and modelling in mining, process control and optimization and investment planning and risk analysis. The final registration was 96. Participants from all over the world.

The International Council of APCOM held its meeting during the Symposium. Members of the International Council were confirmed as follows: Prof. K. Dadgelen (Chair), Prof. S. Bandopadhyay (Alaska), Prof. A. Basu (Great Britain), Prof. G. Blackwell (Canada), Dr F. Camisani-Calzolari (SA), Prof. A. Kuzmin (Russia), Prof. D. McKee (Australia), Prof. A. Preube (Germany), Prof. R. Ramani (Pennsylvania State University), Prof. A. Subelj (Slovenia) and Prof. W. Yuehan (China). The Council confirmed the venue and date of the 31st APCOM. That will be held in Cape Town in May 14–16, 2003. The 32nd APCOM has been scheduled in Tucson (Arizona) either late in 2004 or early in 2005. The Council also decided that a meritorious student from a SA university will be awarded a prize of US\$ 3000 at the 31st APCOM. It was reported at the meeting that the regional APCOM held in September 2001 in Tampere (Finland) had a participation of 90 people of which 65 were fully registered. A total of 40 papers were presented.

The SAIMM will host the 31st APCOM. The Organizing Committee consists of the following people: Dr F.A. Camisani-Calzolari (Chair), Dr W. Assibey-Bonsu, B.R. Broekman, J.F. Betzhold-Benzi, F.R. Camisani-Calzolari, Prof. I. Craig, A.N. Clay, J.A. Cruise, Prof. D.G. Krige, Prof. P.C. Pistorius, G.J. Robbertze, Prof. O.K.H. Steffens, J.D.S. Vieler, J. Wates and Prof. R.C.A. Minnitt.

7.3 INFACON

National Representative

Dr N.A. Barcza

Infacon X will be held in Cape Town at the new Convention Centre from 1 to 4 February 2004. This international congress will incorporate the International Chromium Health and Environment Symposium. The stakeholders in Infacon X are:

Annual report

The Ferro Alloys Producers Association (FAPA) who are underwriting the Congress, The SAIMM, Mintek, Eskom and the Southern Africa Stainless Steel Development Association (SASDA). An organizing committee has been formed with Dr N.A. Barcza as chairman and Mr L.J. Linnell as vice-chairman. The Technical Programme Committee chairman is Dr L.R. Nelson. The secretariat is being jointly run by the SAIMM and Mintek. The first announcement and call for papers has been issued to attract papers that will address the Congress theme "Transformation through Technology". Preliminary and keynote speakers are being identified to address the major areas, namely chromium and manganese alloys, silicon, vanadium and other ferroalloys, management, productivity, energy, environment and health. Several exciting post congress tours to ferroalloys plants have been scheduled. This will be the third time that Infacon has been held in South Africa, the previous events being in 1974 and 1992.

7.4 SAMREC

National Representative J.R. Dixon

SAMREC continued to provide a reader panel service to the JSE Securities Exchange Listing Division whereby Competent Person's Reports (CPRs) contained in transaction documents are checked for compliance with the Code.

The standard of CPRs submitted has improved considerably since the process was implemented.

SAMREC now also routinely monitors the Annual Reports of mining companies to assess their compliance with the Code in reporting reserves and resources. The Investment Analyst Society of South Africa has kindly donated an award to be presented each year by SAMREC to the company with the best report on reserves and resources. The Investment Analyst Society of South African has kindly donated an award to be presented each year by SAMREC to the company with the best report on reserves and resources. The first award was presented in 2001, at their annual banquet, to Durban Roodeport Deep.

Reciprocity of CPs with other jurisdictions, principally Australia, Canada and the UK has been pursued during the year including representation at the CMMI conference in Cairns, Australia during May 2002. Hopefully full reciprocity with these countries will be achieved in the coming year.

SAMREC continues to serve on the CMMI sub-committee working towards the development of a World Code for reporting reserves and resources.

8. Management and Administration

Portfolio Holder: F.M.G. Egerton

The Secretariat consisted of:

Mrs Sam Moodley (Manager)
Mrs Pam Bester (Conference Co-ordinator)
Miss Karen du Toit (Conference Co-ordinator)
Miss Nazli Mamdoo (Junior Clerk)
Miss Zuliakha Mohamed (DTP Operator)
Mrs Ginette Oliver (Membership Secretary)
Mrs Anna Panana (Junior Secretary)
Mrs Apathia Sello (Junior Clerk)
Mrs Dawn van der Walt (DTP Operator)
Miss Ayanda Velleman (Publications Co-ordinator)
Mrs Lara Winning (Accountant).

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

8.1 Finance

J.A. Cruise, Honorary Treasurer

Financially the year 2001/2002 has been the best year ever for our Institute. We have finally achieved our aim of setting the Institute on a sound footing such that we no longer have to rely on colloquia, symposia and conferences to subsidize the running cost of the Institute. Having said that, we have had our most successful year financially with colloquia, symposia and conferences providing the entire record surplus of over R1,5 million. For this the highest kudos must be given to the hard-working technical committees and the secretariat.

We can now establish funds to achieve our stated purpose in education and dissemination of technical knowledge for the advancement of our professions. However, in the current euphoria of the financial success of the past two years, one must bear in mind that the financial situation can turn quickly. It has happened in the past and, as sure as night follows day, it will happen in the future. In order for the Institute to remain viable we must ensure that the 'seven fat years' should cater for the 'seven lean years' yet to come.

After that Cassandrian note, it gives me great pleasure to summarize the year's finances.

Company affiliate subscriptions increased in line with inflation R252 632 (R225 964) and individual membership showed a modest increase R800 508 (R708 328). Thus, income from subscriptions not only tops R1 million for the first time at R1 053 140 (R934 292) but matches expenditure less depreciation at R1 055 427 (R1 033 430).

Conferences, colloquia and schools brought in a surplus of R1 508 337 (R914 337), whilst interest and dividends increased to R164 953 (R89 839).

Income has therefore, increased substantially to R2 729 641 (R1 958 090).

Expenditure was maintained at R1 072 860 (1 048 817). *Journal* costs rose to R851 310 (R598 650) and this was due mainly to an increase in the number of *Journals* and number of pages in each *Journal*. This was partly offset by an increase in the advertising revenue R418 055 (333 386) and sales R174 573 (R115 291). Subscriptions written off decreased R54 246 (R75 295).

As an indication of our intent with regard to use of the surplus, R1 million has been put into our Education Fund, the P.W.J. van Rensburg Fund, and R400 000 into our Book Publication Fund, the Prof. R.E. Robinson Fund.

A new item in our list of funds is the Gold Medal Awards. The old Chamber of Mines Gold Medal Awards have been replaced with the SAIMM Gold Medal Awards for the Universities of Pretoria and the Witwatersrand. We are the custodian of funds donated by the major mining houses and are honoured to give our name to the awards.

Finally, I would like to thank the secretariat who have contained costs, our accountant Mrs Winning who produced our detailed monthly management reports for Council and our auditors KPMG who have timously rendered the audited financial statements and for their advice during the year.

Annual report

Addendum

New Members

Fellows

D.J. Arnold, J.S. Carr, F.H. Coetzee, M.R. Mortlock, J. Schweitzer, N.W. Searle, F.J.V. van Wyk, D.J.R. Vermaak, D.M. Walters.

Members

R.S. Abrahams, F.J. Agenbag, C.J.M. Baltus, I. Canbulat, F.C. Delabbio, J. Els, S.R. Flatman, M.J. Fox-Martin, L.A. Freeman, M.J. Freer, B. Genc, M. Greyling, M.H.G. Heyns, W.H. Kotze, S. Lambert, H.B. Lewis, M. Mcwha, M.J. Mothomogolo, M.R. Mpooyo, H. Mtegha, T.C. Mtshali, C-T. Mutale, M.D. Mwema, B. Mwila, J. Pocock, G.N. Polley, T. Pongweni, G.M. Rapson, D.P. Roberts, W. Roper, C.S. Sambo, D.J. Shell, B.J. Smith, M.A. Smith, A.P. Taylor, D.S.D.T. van den Bergh, K. van der Merwe, D.T. van der Mescht, F.J. van Zyl, A.D. Wulfse, L. Zindi.

Associates

D.K. Anderson, N. Anthony, M. Dry, M.T. Duddy, A-M. Fauconnier, T. Keating, T. Kgogo, R.J. Khoanyane, A. Maharaj, A.N. Mainza, K.V. Mannion, K. Mapasa, R.V.M. Mbhele, N.N. Mthanti, K. Mukuka, L. Munsamy, J.J.J.P. Pretorius, J.T. Rajan, D.S. Smit, Z. Smith, B.J. Souter, J.A. Sweet, J.N. Tshimange, W. van Drunick, T.C. van Schalkwyk, M.K.G. Vermaak.

Students

O.H. Bowers, P.N. Bungu, B.M. Buthelezi, M. Coetzer, U.A. Curle, T.H.M. de Almeida P.J. Fourie, B.M. Fraser, J.d.C. Grobler, J.C. Grobler, P.B. Hlatshwayo, J.C. Human, J. Jacobs, J.T. Jordaan, M.H.S. Lehobye, P.E. Lihaba, I.G. Lute, S. Maplanka, L.I. Marumole, E. K. Molete, K.T. Mote, M.H. Mothiba, D.T. Mukongo, A. Mulaudzi, J.J. Naude, I.J. Neethling, J.F.G. Nel, F. Nematswerani, J.M. Nesongozwi, L.W. Netshikulwe, E.T. Ngwenya, S.S. Nkosi, L.M. Nkuna, J.M.d.W. Roos, J.J. Rossouw, A.N. Serero, R. Visser.

Company Affiliates

ABB South Africa
McKinsey & Co
Osborn Engineering Products SA (Pty) Ltd
Paul Wurth International SA
SNC Lavalin South Africa (Pty) Ltd
Time Mining.

Resignations

Life Fellow

C.D. Storrar.

Fellows

R.W. Chadwick, P.H.O. Cooper, J.D. du Plessis, R.J. Fisher, A.K. Haines, R.V.R. Handfield-Jones, J.A. Holmes, F.K. Letowski, V.C. Liddiard, A.C. Naude, G. Pienaar, J.C. Sutherland, J.F. van der Colff, H.B. van der Walt, J.J. Versluis.

Retired Fellows

D.W. Bulmer, A.G. de Beer, V.J. Moore, D.L. Taylor, P.T. Wedepohl.

Members

F.C. Berndt, M.J. Daniel, W.J. de Maar, D.I. Fiddes, P.E. Grobler, P.G. Henderson, G.D. Kletz, W.J. Louw, R.A. McCallum, D.A. Norval, A.G. Pavlides, K.B. Perel, I.N. Ridley, J.A. Robertson.

Retired Member

A.V.S. Meyer.

Associates

L.R. Alexander, M.S. Bedford, C. Coetzee, R. Coetzee, J.C.K. de Beer, W.H.J. de Villiers, J.C. du Plooy, A.L. Ebersohn, G.H. Feldtmann, S.J.D.W. Fourie, R.G. Helberg, P. Language, J.K. Maepa, D.J. Markus, B.A. Muller, P.J.C. Myburgh, N.A. Quagraine, C.D. Ross, A. Ruskovich, A.M. Smit, W.S.B. van Beek, W.F. van der Vyver, A.J. van Rooyen, A.A. van Wyk, P. Vermeulen, K.J. Wollhaf.

Students

G.C. Breet, K. Goss-Ross, D. Jansen van Rensburg, J. Scheepers, W.I. Swanepoel, E. Vinken.

Company Affiliates

Komatsu Southern Africa (Pty) Ltd
Lurgi South Africa (Pty) Limited

Members Transferred to Higher Grade

Transfer from Member to Fellow

P.A. Noble, D.J. Arnold, P. Andersson, O.G. Lilford, R.D. Elvish, S.F. Burks.

Transfer from Associate to Fellow

W. Marais.

Transfer from Associate to Member

F.P. Guilherme, J. Els, R.S. Abrahams, M.F.P. Carlisle, S.M. Rupprecht.

Automatic Transfer to Associate

C.C. Ballot, D.F. Maseko, M.P. Motlana, Z. Nzimande, T.P. van den Berg, L.B. Mkhize, M.V. Moseki, T. van der Linde, A. Ferreira, R.D. Hull, T.P. Zulu, C.J. Horn, S. Mndebele, W. van Drunick, A.G. Mthombeni, J.L. Steyn, M.S. Zulu, J.J. Kleynhans, R.E. Mthembi, B.E. Siko, A.A. van Jaarsveld, J.M.F. McHive, A.T. Morena.

Members who retired

Retired Fellows

I.J. Corrans, A.M. Edwards, W. Lurie, H. Scott-Russell, H.J. Smith.

Annual report

Retired Members

G.R. Jennery, J.A. Ryder, J.M.P. Viviers, R.B. Wiggill.

Retired Associates

S.I. du Preez, J.R. Forbes.

Deceased

Honorary Life Fellow

M.G. Atmore.

Life Fellows

J.F. Curtis, T.L. Gibbs, E.R.C. O'Connor, L.J. Prince, B.M. Roberts, D.J. Rogers.

Fellow

A. Ball.

Retired Fellows

R.E. Burnton, N.Z. Goldblatt, G. Hitchcock, U. Visser, P.B. Weehuizen.

Member

H.J. Marais.

Retired Member

C.J. Engelbrecht.

Associates

S.B. Khumalo, T.G. Wilson.

Members who were reinstated

Reinstated as a Member

L.A.E. Carter, E.J. de Jager, C. Kujawa, P.B. McCreddie, K.J. Richardson.

Reinstated as Associates

D.A. Christie, E. de Villiers, M.V. Moseki, P.M. Cook, S.B. Sampson.

Reinstated as a Student

S.J. Sekhukhune. ♦

AngloGold begins transacting on Quadrem*

Global eMarketplace Provides Full Procure-To-Pay Solution to Gold Company Dallas, TX, and Johannesburg, SA, July 10, 2002—AngloGold has completed its integration projects with Quadrem in the South African region and is now transacting with sellers, as announced today by the global mining, minerals and metals eMarketplace.

Commenting on AngloGold's eProcurement strategy, Malcolm Farrell, manager of Group Procurement, has this to say: 'This is a milestone achievement in terms of our beginning to realize the value that Quadrem can deliver to both our organization and the suppliers with whom we transact'. He adds, 'The support provided to the AngloGold team as well as our integration partners by the Quadrem teams in Dallas and South Africa has been invaluable in reaching this milestone'.

'Quadrem is pleased to see AngloGold begin transacting via the Marketplace, and we congratulate them in completing this eCommerce milestone,' explains Mike Efting, Quadrem CEO. 'Every week more and more of our buying participants begin transacting—a commitment we appreciate and value. With the ongoing support of our buyers and sellers, Quadrem's value as a complete procure-to-pay solution will deliver the benefits anticipated by all.'

Directed from its headquarters in Johannesburg, AngloGold (www.anglogold.com) is a global gold company. Its production base spans four continents with a combination of underground and open-pit operations in

Argentina, Australia, Brazil, Mali, Namibia, South Africa, Tanzania and the United States of America. AngloGold has extensive, focused exploration programmes in 10 countries. Formed in June 1998 through the merger of the gold interests of Anglo American and its associated companies, the company is listed on the Johannesburg (ANG), London (79LK), New York (AU) and Australia (AGG) stock exchanges and the Brussels (ANG BB) and Paris (VAFP) bourses.

Quadrem (www.quadrem.com) is the eMarketplace for the global mining, minerals and metals industries that is revolutionizing supply-chain processes and offering unrivalled benefits for sellers and buyers. It has been developed as a one-stop solution to meet the needs of this industry. Many of the world's leading resource companies, and their supply partners, are now integrating this Internet-based electronic transaction platform to implement their long-term eCommerce strategies. ♦

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Consensus sought to solve 'value tracking' conundrum*

Managing the mining process to track the value of a resource through its transformations from the ground to its point of sale is the focal point for the AusIMM Value Tracking Symposium being held in Brisbane, Australia from 7–8 October 2002.

Symposium co-chairmen, mining engineer Andrew Scott and metallurgist Rob Morrison are concerned that there are no generally accepted procedures or 'best practices' defined to evaluate the efficiency of mining and minerals processing operations.

'It's difficult for an operation to fairly assess its own performance, or to compare operating performance between mines, or across different mineral sectors without such procedures in place on an industry-wide basis,' Dr Morrison said.

'Those involved in evaluating orebodies had made a significant contribution over the past thirty years by developing and implementing codes such as JORC and VALMIN.

'Now we need to see if we can achieve consensus on how the exploitation of a deposit can be evaluated.'

He said the Value Tracking Symposium is not really about evaluating reserves, it's more about evaluating how good a job you are doing of exploiting the reserves, which are two quite different challenges.

Mr Scott said there was a conundrum in that the mining industry is becoming much better equipped with tools, theories, instruments, computing and communications technology to tackle these tasks.

'On paper we should be able to manage the mining and beneficiation of orebodies quite well, but nobody seems to achieve this to the potential that these tools offer.'

He said a significant frustration in trying to implement new technology in mining is that unless you can demonstrate and measure the difference that a change creates, management will be reluctant to adopt it.

'Current production monitoring and management systems are not good enough to assess the impact of many of the changes that are needed, even though the underlying benefits could be quite significant,' Mr Scott said.

He said that the adage 'we tried that but we didn't see a difference' has been the death of many good ideas.

'With many of those ideas the problem was in the measurement, not in the concept.'

Dr Morrison said the symposium provided an opportunity to get people together to talk about existing tools and commonly used procedures to identify gaps between the industry's current and required future capability in these areas.

He said that the key enabling technology required is the ability to understand and track the physical processes involved in a mining business.

'As you better appreciate cause and effect throughout the process, previously hidden opportunities for improvement become apparent.'

He said that opportunities for improvement have been identified from a number of metallurgical accounting exercises and Mine to Mill optimization studies and that these often became obvious once the 'tracking' process is better defined.

In relation to metallurgical accounting and production

reporting, Mr Scott said much of this was done for accounting purposes and was not always generated in a form suited to the routine management of the operation.

There is a need for consistency between business, financial and governance requirements, and operational measures required to manage the process so these often separate streams are not seen as additional 'pain in the neck' processes just merely added on.

There is anecdotal evidence in the industry that points to the need for a consistent and streamlined approach to quantify and communicate the performance of the mining and processing activities required to convert a geological reserve into a saleable product.

Dr Morrison said that until now the industry had devoted much of its time to discussion on sampling and date analysis, which are important elements of the value tracking issue.

'This symposium shifts the focus from these technologies to the underlying requirements for these processes to be managed efficiently.'

Mr Scott said the symposium organizers were optimistic that an outcome from the two-day event would be agreement on an approach towards best practice in these areas.

'The symposium provides an opportunity for all presenters and delegates to contribute to this process.'

He said the structure and organization of the Value Tracking Symposium is focused on outcomes, not inputs, so workshop sessions will be recorded, summarized and published along with speaker's papers on a CD.

Dr Morrison said that while the acknowledged 'gurus' in their respective fields would be presenting at the symposium, it was vitally important to capture viewpoints from all operational levels across the industry.

'The symposium's long-term goal is about identifying opportunities that will improve the performance of a mining business and creating an environment in which such innovations can be successfully implemented.'

Since the symposium was first proposed at the end of last year, Rob Morrison and Andrew Scott have fielded enquiries from across the globe about the value tracking concept and the event coming up this October.

Mr Scott said there had been particular interest from South Africa and Canada, as well as from throughout Australia.

'There is no difference in the nature of the problem or the potential solution in any of those places as the challenges involved in tracking value cross all commodities, all mine styles and types—it's an entirely generic problem.'

Sponsors for the AusIMM Value Tracking Symposium include JKMRM, JKTech Pty Ltd, Golder Associates and Mineman Systems.

To register for the Value Tracking Symposium on-line, go to www.ausimm.com.au ◆

* *Contact: David Goeldner, email: d.goeldner@mailbox.uq.edu.au, Phone +61 7 3365 5848 or Rob Morrison, email: r.morrison@ktech.com.au Phone +61 7 3365 5843 or Andrew Scott, email: ascott@gil.com.au, Phone +61 7 3378 4618.*