



Proceedings, 113th Annual General Meeting, 2010

The 113th Annual General Meeting of The Southern African Institute of Mining and Metallurgy was held at The Country Club, Johannesburg, Napier Road, Auckland Park on Thursday, 11 August 2010.

Welcome

The President extended a special welcome to the guests and representatives of our sister institutes and other associations, and also to recipients of awards, senior members of industry, Honorary Life Fellows, past-presidents, our members and other guests, among them the following:

- F. Cawood, President, Institute of Mine Surveyors of South Africa
- O. Franks, Chief Executive Officer of ECSA
- D. T. Grobler, Immediate Past President, South African Institute of Electrical Engineers
- O. Letsholo, President, Association of Mine Resident Engineers
- G. Lok, President, South African Coal Processing Society
- P. Nex, President, The Geological Society of South Africa (GSSA)
- G. Stensil, President, SA Colliery Manager's Association

Past-presidents attending

- | | |
|----------------|--------------------|
| Richard Beck | Don Ross-Watt |
| John Cruise | Robbie Robinson |
| Roger Dixon | Dick Stacey |
| Rick Mohring | Oskar Steffen |
| Rams Ramokgopa | Willem van Niekerk |

Minutes

The minutes of the previous Annual General Meeting, which were published in the September 2009 issue of the *Journal*, and sent to all members, were confirmed.

Obituaries

The President announced the death, during the year, of the following members:

Life Fellow

J.A. Nixon

Retired Fellows

G.P. Bennett, D.J. Forder, J.D. McMorran, W. Lurie,
E.R. Rudolph, H.J. Stucke, K.W. Walpole

Retired Members

P.C.M. Bathurst, M.F. Dawson, B.J.S. Hornabrook,
M.H. Maddocks

Fellows

C.B. Pask, S.I. Malone, J.M.S. Mtonga, R.C. Espley-Jones, A. Karzulovic, G.C.P. Donoghue

Members

M. Mtonga, A. Maharaj, D.J. Rushton, J.P. McKelvey, I.J. Walton

Students

B.D. Mohoaladi, T.J. Mokgokong

In memory of the deceased and in sympathy with the bereaved, all rose and observed a moment of silence.

Honorary Fellowship

Gordon Smith: Honorary Life Fellowship is awarded by the Council to corporate members of the Institute who have rendered outstanding service to the industry or to the Institute. It is my pleasure to announce that the Council has decided to award Honorary Fellowship to:

- Rodney Jones, as an example of a member of distinction and for his outstanding service and dedication to the SAIMM over many years. Rodney was elected as a member of the SAIMM on 15 July 1988 and on 31 October 1997 as a fellow of the SAIMM. In 2003 he joined the technical programme committee for metallurgy and has chaired this committee since March 2007. Rodney chaired the organizing committee for the Pyrometallurgy (2006) and Power Crises (2008) conferences as well as assisted with several conferences, including but not limited to the Base Metals and Platinum series and the Infacon conferences. Rodney sits on the Publications committee, the IT committee and has been a member of Council since 2006. Rodney has also published several papers in the *SAIMM Journal*. It is Rodney's continuous participation in and enthusiasm for activities of the SAIMM that makes him stand out as an exemplary member of the Institute. Rodney received his award from *Joshua Ngoma*.

Brigadier Stokes Memorial Award

Gordon Smith: The Brigadier Stokes Memorial Award was instituted in 1980 to commemorate the outstanding contribution to the South African mining industry made by Brigadier R.S.G. Stokes, an Honorary Life Fellow and past-president of this Institute. The award is made to an individual for the very highest achievement in the South African mining and metallurgical industry. It gives me great pleasure to announce that the award for 2010 is to be made to Prof. Cyril O'Connor.

Gordon Smith called upon Richard Beck, to read the citation: Mr President, honoured guests, ladies and gentlemen. It gives me great pleasure to present this citation to honour Professor

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Cyril O'Connor with the Brigadier Stokes Memorial Award. It is particularly pleasing for me because I have been associated with some of the work that he has done for the minerals industry.

Cyril was born on the 4th May 1944 in Johannesburg and attended Maritz Brothers in Observatory. He trained as a school teacher and obtained his first degree with distinctions in mathematics and chemistry from UNISA. The quality of this academic performance gained him a scholarship to study for an honours at UCT, which he achieved in 1975. This was followed by a PhD in 1978, the subject of which was chemical detonators. An interesting link to the minerals Industry, but it was the thermodynamics that was important and he has taught this subject for over 30 years. He also managed to blow himself up which is another story altogether.

In 2005 he was awarded a senior doctorate in metallurgical engineering by Stellenbosch University, recognizing a life time of research excellence. He is also a Professional Engineer.

After his PhD studies he discussed a number of positions in industry with influential people at the time, both in the chemical and minerals industries: Andre Brink at Sasol and Peter Harris, Rob Dunne and Ian Corrins at NIM, now Minek. Ultimately, he decided to stay on at UCT and moved up the university ladder to professor (*ad hominem*) in 1990. He was Dean of the Faculty of Engineering and the Built Environment in 1996 and again 1998–2008 and Acting Deputy Vice-Chancellor for the period May 2008–April 2009.

Once the decision to stay on at UCT was made, he looked for research areas, with the help of the people already mentioned. This led to two areas of interest, in which he has distinguished himself, namely flotation and catalysis.

He began catalysis research in 1980 and was the founding director of the Catalysis Research Unit, which ran from 1981 to 1999, during which period it was recognized at UCT as a Centre and is now an NRF Centre of Excellence under Professor Jack Fletcher. His expertise both technical and managerial, in catalysis research, is too varied to itemise here, but include positions such as Council Member and Vice-President of the Zeolite Association and a member of international advisory boards for many International zeolite conferences.

Also in 1980, he turned his attention to flotation. To support this interest in mineral processing, he established and managed the practical training programme of chemical and metallurgical engineering students in the Gold and Uranium Division of the Anglo American Corporation of South Africa. When a student reported to him what little was expected of a potential graduates during his vacation work, Cyril recognized the lack of focused mineral processing teaching and research. To address this, he added representatives of the minerals Industry to the Chemical Engineering Advisory Board, established by the late Professor Geoff Hansford, and started research and specialist studies in mineral processing. With Jimmy Green and Professor Seddon Harrison at the University of Stellenbosch, meetings were started to which senior metallurgical consultants were invited to listen to student presentations in order to achieve feedback from industry. This became an annual event and subsequently the annual mineral processing conference held under the auspices of the Western Cape Branch of the SAIMM. This is now recognized internationally as a major event on the mineral processing calendar. The student focus remains to this day. He was behind

the formation of the Western Cape Branch of the SAIMM for which he was founding Branch Chairman and held other positions subsequently. School days to introduce the locals to the minerals industry are another activity of the Western Cape Branch. Again with Stellenbosch, he promoted mineral processing in the Western Cape through the Western Cape Mineral Processing Facility. This cooperation was, I believe, unique and involved UCT and Stellenbosch staff lecturing at each other's universities and shared pilot-plant facilities. The COM funded transport of students between universities, the development of pilot-plant facilities to avoid duplication, and supervisors for the practicals. A number of these supervisors have gone to senior academic positions. The then Cape Technikon joined this grouping and a very important source of students and research for the Minerals Industry was created.

Thus, from beginning as a small flotation research group, it is today a University-accredited Centre. The Centre for Minerals Research, enjoys a considerable global reputation, incorporating groups focused on reagents, comminution, cell design, modelling and simulation, and metal accounting. Cyril is still the director. The Centre also operates a very successful consulting arm, called MP Tech. Of great significance has been the development of the Comminution Group and the Reagent Research Facility, which was formally the Depressant Research Facility, of importance to the platinum industry.

Because of the international high regard with which minerals research at UCT was held, Cyril and his team were invited by the JKMRM (University of Queensland) to join the world's largest university based mineral processing research programme, AMIRA P9. This helped the department to grow with the assistance of THRIP funding based on increased Industry contributions to research. It is now recognized as one of the leading research groups in mineral processing in the world. Cyril's skill to use well placed funding and the right people has achieved this. His international links are numerous and the number of respected academics that come to UCT for a sabbatical testify to this. This has included the University of Zambia.

His record is indeed impressive. He has published 44 refereed papers on flotation and 86 on catalysis, with 49 refereed conference proceedings on flotation and 23 on catalysis. He has supervised 60 MSc/PhD theses and is an NRF 'A' rated researcher.

His fellowships and awards are a long list, Life Fellow UCT, Royal Society of South Africa among them and, of course, an Honorary Life Fellow of the SAIMM.

He is the chairman of the International Mineral Processing Congress (IMPC) council and was chairman of the organizing committee of the XXII IMPC in Cape Town in 2003. The position of chairman of the IMPC council has always been held by international experts in the field of mineral processing and is a highly respected and coveted position. He is recognized internationally by holding various advisory positions, including the Advisory Board of the Ian Wark Research Institute of the University of South Australia.

When the mineral industry wished to start a collaborative research venture in South Africa, it was to Cyril they turned and the South African Minerals to Metals Research institute (SAMMRI) is being developed.

A great academic career and there are other interests as well. Cyril played league cricket until he was 44. He is an

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Honorary Life Member of the Western Province Cricket Association and been on their executive for 24 years. He is Life President of Claremont Cricket Club.

With such a full life, no wonder he was what he said was a 'late starter' and has been married for only 26 years to Annette. Annette is a consultant to the Medicine Control Council that passes new drugs. She has MSc in Pharmacology.

Cyril retired from his senior positions at UCT in April last year. He has come full circle and returned to his old department to take up the new Anglo Platinum Chair of Mineral Processing in the Department of Chemical Engineering at UCT. This is one of the two endowed chairs at UCT and reflects industries' respect for the work of the group started by Cyril. It is thus an appropriate time to recognize his contribution to the Southern African minerals industry.

In conclusion, Professor Cyril O'Connor has put mineral processing research in Africa on the map. He and his team produce students of the highest calibre. It is Cyril who has made UCT a world leader in mineral processing research. He justly deserves recognition for this by the SAIMM in the form of the Brigadier Stokes Memorial Award.

Cyril O'Connor accepted his award.

Recognition of Dr Danie Krige

The SAIMM would like to take this opportunity to give recognition to Danie Krige, an esteemed member who joined the SAIMM on 9 November 1951 and who has contributed enormously to the industry.

John Cruise was called upon to say a few words:

Born in Bothaville (OFS) on the 26th August 1919, Daniel G. Krige grew up in Krugersdorp on the West Rand. He matriculated from Monument High School in Krugersdorp in 1934 at the age of 15 and graduated with a B.Sc. (Eng.) degree in mining engineering from the University of the Witwatersrand at the end of 1938 (age 19).

In 1938 he joined Anglo Transvaal where he worked on a number of gold mines until 1943, gaining a wide range of valuable practical experience in surveying, sampling and ore valuation. He then joined the Government Mining Engineer's Department where he worked for eight years during which time he participated in the uranium negotiations with the British and American authorities and designed the uranium pricing formula for the contracts which led to the establishment of South Africa's profitable uranium industry in the early 1950s. During the same period he began his pioneering work in the application of mathematical statistics to the valuation of new gold mines using a limited number of boreholes and of ore reserves for existing mines.

His early papers on the application of mathematical statistics, some republished in French, created world-wide interest that led to the development of the science and concepts that surround the spatial evaluation of mineral resources and reserves known as geostatistics. This technique has contributed to improved ore evaluation techniques as well as the reduction of the financial risks associated with investment in mining enterprises. Furthermore, it led to the recognition of his contributions to the evaluations of mineral deposits through the coining of the term 'kriging' that is used to describe a spatial mineral evaluation process known and practised in international mining circles.

He continued his work in geostatistics on his return to the industry as Group Financial Engineer of the Anglovaal Group until his retirement from this position in 1981 and afterwards for ten years as Professor of Mineral Economics at the University of the Witwatersrand. He is still active as a consultant and is a registered Professional Engineer.

He has published some 90 technical papers both locally and overseas, some in Russia, and has lectured and participated in international congresses in many countries. His contributions were recognized by the University of the Witwatersrand through the award of a D.Sc. (Eng.) degree in 1963, by three honorary degrees (from the universities of Pretoria, UNISA and Moscow State Mining University), by many awards from the South African Institute of Mining and Metallurgy, the International Association for Mathematical Geology, Die Suid Afrikaanse Akademie vir Wetenskap en Kuns, the SME of the American Institute of Mining Engineers, the International APCOM Council in 1999, the University of Antofagasta in Chile, and by the South African President (Order for Meritorious Service, Class 1, Gold).

He has served on various Government committees, notably that for State Aid for gold mines (1967/8) and designed the State Aid formula which enabled many mines to survive a period of low gold prices; also various taxation committees, and the mining mission to Iran in 1974. He is a fellow and/or honorary life member of various technical societies locally and overseas, including the Royal Society of South Africa.

The fact that decisions on new gold mines of critical importance to the State and the economy as a whole, were being taken on a limited number of drillholes without any scientific analysis of the risks of failure, stimulated him to start basic research into ore evaluation. His approach was based on the application of mathematical statistics to these problems, an approach of which very little was known worldwide at that stage but which had already been initiated in South Africa by Herbert Sichel via the lognormal frequency distribution model.

In Krige's 1951 paper published in the *Journal of the Chemical, Metallurgical and Mining Society of South Africa* he covered the statistical explanation of the conditional biases in ore block valuations and stimulated the use by several gold mines of regression corrections for routine ore reserve valuations, a technique which, in effect, was the first use on an elementary basis of what is now known as kriging. His 1952 paper introduced, inter alia, the basic geostatistical concepts of 'support', 'spatial structure', 'selective mining units' and 'grade-tonnage curves'. His 1951 paper was based on his M.Sc. (Eng.) thesis submitted in the Department of Mining Engineering to the University of the Witwatersrand, and expounded his pioneering work in geostatistics in more detail. His early research papers that had stimulated interest in several mining circles overseas, were republished in French in 1955, resulting in a major research effort by French mining engineers in this field. This, in turn, led to the establishment of the now world-renowned French school of ore evaluation in Fontainebleau, Le Centre de Geostatistique de l'Ecole des Mines de Paris.

The National Academy of Engineering, in recognition of his distinguished contributions to engineering, has elected Danie a Foreign Associate of the United States National Academy of Engineering (NAE). The induction ceremony will be held on 3 October 2010 in Washington.

Presentation of awards, medals and certificates

Gordon Smith announced the following awards, medals and certificates, which were presented by Joshua Ngoma.

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50-year Membership Awards

(with effect from 1 July 1959 to 30 June 1960)

- H.E.K. Allen, elected 13 May 1960
- D.C. Brink, elected 8 April 1960
- G.D. Louw, elected 13 November 1959
- H.A.G. Slater, elected 10 June 1960
- G.T. van Rooyen, elected 14 August 1959

Transactions published in the *Journal*

All transactions published in the *Journal* from March 2009 to February 2010 by members of the Institute were considered.

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. The following paper was awarded a gold medal.

Gold Medal

H. Kotze and C. Pistorius for their paper published in the February 2010 issue of the *Journal* entitled:

‘A heat transfer model for titania slag blocks’.

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.

Silver Medal

M. Gericke, J.W. Neale, and P.J. van Staden for their paper published in the October 2009 issue of the *Journal* entitled:

‘A Mintek perspective of the past 25 years in minerals bioleaching’.

Certificates of Merit

R.T. Jones, I.J. Geldenhuys, and Q. Reynolds for their paper published in the October 2009 issue of the *Journal* entitled:

‘Recovery of base metals and PGMs in a DC alloy-smelting furnace’.

D.B. Swanepoel and W.E. Stumpf for their paper published in the December 2009 issue of the *Journal* entitled:

‘Age hardening of the aluminium alloy EN 4017’.

Presentation of Student Prizes

Gordon Smith announced the student winners of the SAIMM Prestige Prize and *Joshua Ngoma* presented the awards to the students adjudged by their departments to be the best final-year students in 2009:

University of the Witwatersrand

Mining	Ms P. Neingo
Metallurgy	R. Couperthwaite

Best final year student in the faculty of any engineering discipline (chemical)	M. Stevenson
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Best final year student in any faculty in the discipline of mining or metallurgy	P. Mogodi
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University of Pretoria

Mining	M. Neale
Metallurgy	G. Mare
Student Dissertation	B. Steyn

University of Johannesburg

Mining	V. Eva
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The following SAIMM student prizes were presented at the Western Cape Branch AGM on 6 August 2009.

University of Cape Town

Chemical Engineering	Ms T. Chimbanga
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University of Stellenbosch

Process Engineering	C. Bailey
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Cape Peninsula University of Technology

Chemical Engineering	M.Y. Gani
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Annual Report and Accounts

John Cruise presented the financial statements.

*‘The time has come’ the Walrus said,
‘to talk of many things,
of debits, credits, inventories
of a balance sheet that sings’
‘or whether the accounts are in the red or black
or whether treasurers have wings’*

Over the past twenty years that I have had the honour of being the Honorary Treasurer of your Institute, I have seen many a president, many an accountant, many an auditor, and many a balance sheet. At the end of each financial year, the incumbent president approaches me and warily asks, ‘How have I done?’ This is the moment of power of the treasurer and each year I milk it for all it is worth.

‘Wait for the balance sheet,’ I say. ‘Wait until the auditor and I have put through our adjustments,’ is all I reply, with a poker face as inscrutable as an oriental envoy. For it is the audited balance sheet and the income statement, that record the financial health of our Institute.

The balance sheet shows that non-current assets increased to R12 368 946 (R9 038 008) and current assets increased to R7 981 978 (R7 708 485), producing a total assets increase to R20 350 924 (R16 746 493). This was achieved mainly through an increase in investments to R11 701 438 (R8 525 542). In the current assets the decrease in accounts receivable to R1 220 659 (R2 367 721) was offset by the increase in cash and cash equivalents to R6 729 829 (R5 277 771).

This turnaround was due to the stout effort put in by the staff during the year to collect outstanding debts, which reduced the debt and put money in the bank. Under liabilities we have shown income received in advance for one of our major conferences of R774 956, and whereas it is a pleasure to have that money in the bank at the year end, it really belongs to the function taking place in the coming year, and so it does not appear on the income statement of this year, but is a welcome nest egg for next year.

In last year’s income statement, we had a change in the

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reporting of revenue, which made comparisons with the previous year's figures difficult. This year the reporting of revenues is the same as last year's; thus direct comparisons can be made. Revenue from advertising and sales of books rose to R1 446 822 (R732 512), whereas revenue from conferences dropped to R5 722 989 (R9 629 853). The main reason for the drop was that no large international conference was held this year. Interest received fell to R314 515 (R460 626) and this was due in part to decreasing our cash content of our investment portfolio from 30% to 10%. Operating expenses decreased to R9 325 138 (R12 104 395), the majority of which was a drop in conference expenses, which was commensurate with the drop in conference revenue.

As a result of the above, the operating surplus decreased to R706 081 (R1 255 495).

Fair value adjustments on investments showed a swing of R3 671 414 to R1 865 016 from (-R1 806 398), resulting in an increase in the operating surplus to R2 564 365 from a deficit of R799 647 last year. The effect of this on our reserves is an increase to R20 350 924 (R16 746 493).

This year I would especially like to thank the entire staff for the efforts that they all put in to collect outstanding debts. This year it made a difference in the financial well-being of the Institute, and it shows in the financial statements. The conference department is our revenue generating section and the high standard of our conferences is well known in the industry. Keep up the good work.

To our accountant, Alf Bettoni, a special thanks for keeping the books in such meticulous order and alerting us to inconsistencies. To Dawn and Zuliakha, my thanks for getting the financial statements to print in time for the AGM each year. Thanks to Julie Dixon for keeping everything together, and finally my thanks to our auditor, Robert Kitching, who again has achieved the impossible by having audited accounts ready for the AGM.

I used to say that we should strive for seven fat years. Obviously we miners cannot count. We have seen fat years over the past decade. Since 2000 our reserves have grown from under a million rand to over twenty million rand.

I leave as your Honorary Treasurer with the Institute in good financial health.

Our balance sheet is singing.

Office bearers and Members of Council for 2010/2011

Joshua Ngoma announced the office bearers for the ensuing year, elected by the retiring Council in accordance with Clauses 3.2 and 3.3 of the Constitution:

President	G.V.R. Landman
President-elect	J.N. van der Merwe
Senior vice-president	G.L. Smith
Junior vice-president	M. Dworzanowski
Immediate past-president	J.C. Ngoma
Honorary treasurer	J.A. Cruise

In terms of the election of ordinary members of Council (bylaw 3.2.7), there is a letter from the scrutineers stating: 'We have to report that we inspected the nomination papers for members of Council for the 2010/2011 session, and have found that the ballot papers sent out to Corporate Members of the Institute were in order. As a result of our scrutiny, we find

that the following members have been elected (in alphabetical order):

C.R. Deacon	A.S. Macfarlane
A. du Plessis	M.J. Mothomogolo
J. du Plessis	J.L. Porter
P.A.P. Fouche	M.K.C. Roberts
M.F. Handley	D. Tudor
R.T. Jones	P.J. van der Plas
W. Joughin	D.J. van Niekerk

In terms of Clause 3.2.8 of the Constitution, the chairmen of the branches are as follows:

Botswana	H. Marsden
Bushveld	C.A.F. Sweet
Johannesburg	V. Duke
Namibia	B. Litana
Pretoria	O. Mothibi
Western Cape	S. Bradshaw
Zambia	S. Mulenga
Zululand	W. Erasmus
Zimbabwe	W. Kutekwatekwa

These chairmen will be ex-officio members of Council.

The following past-presidents have signified their willingness to serve on Council for the ensuing year:

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

Joshua Ngoma thanked those past-presidents, who indicated that they cannot serve on Council for the next year, for all their time, effort and dedication in the past.

He also thanked past-presidents for their continued support. He congratulated all those elected, and thanked those who agreed to serve another term of office.

Election of auditors and honorary legal advisers for 2010/2011

Joshua Ngoma proposed and it was agreed, that R.H. Kitching be reappointed as auditor for the coming year and that Van Hulsteyn, Attorneys, be reappointed as honorary legal advisers.

Induction of President

Joshua Ngoma introduced the new President, Gysbert Van Rooyen Landman, and then called upon *Gordon Smith* to read his curriculum vitae.

After graduating in 1983 from the University of Pretoria in mining engineering, Gys worked in the mining division of Iscor. Experience was gained in coal and iron ore mining, both on surface and underground. Apart from production supervision, and management, he was involved in mine planning and mechanization projects. In 1988 he moved from Iscor to the University of the Witwatersrand to lecture in mining engineering. His researches led to a PhD in Mining Engineering. He lectured and consulted in the fields of mineral economics, rock breaking, and mine design.

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Gys joined the explosives company, AEL, in 1994 as technical services manager, managing the technical group, Blast Consult. He moved to sales and marketing as business manager for underground mining, concentrating on the narrow reef gold and platinum sectors. He introduced paid service concepts such as value added blasting and successfully introduced performance related business contracts in this sector. Gys joined the board of AEL in the late nineties and in 2000 became executive director markets of AEL. His role included all markets and business operations in South Africa and the African continent.

At the beginning of 2007 Gys was appointed as the chief executive officer of DetNet, a joint venture company between AECI Ltd and Dyno Nobel Ltd. DetNet designs and supplies leading edge electronic initiation systems used worldwide by global mining houses.

Gys is married to Martie, a GP. They have three children: Willem, 22 (Final year student, Mech. Eng. at Wits), Richter, 17 (Grade 11, Michaelhouse) and Mattie, 15 (Grade 10, Roedean High School for Girls). Gys enjoys the great outdoors.

Presidential Address

Gys Landman then presented his presidential address entitled: *How electronics can release the imagination*, which is reproduced elsewhere in this edition of the *Journal*.

Vote of thanks

John Cruise, gave the vote of thanks.

General

Du Toit Grobler, Immediate Past-President of the South African Institute of Electrical Engineers stood in for the SAIEE President, Dr Angus Hay. He congratulated the outgoing President of the SAIMM, Mr Joshua Ngoma on a successful term of office, and Dr Gys Landman, the incoming President, on his election. He wished him an equally successful and challenging term of office.

Grobler stated that, for the SAIEE, 2009 was a very special year during which they celebrated their achievements during the century since the establishment of the SAIEE in June 1909. The success of the SAIEE during its first century was in no small way made possible by the continued contributions and support of fellow learned societies such as the SAIMM.

On 25 March 2010 the Centenary President and Council of the SAIEE extended their appreciation to the SAIMM for the contribution they made to the centenary celebrations of the Institute. Grobler presented a token of the SAIEE's appreciation.

Closure

The meeting closed at 18:45. ♦



Gordon Smith, master of ceremonies



Rodney Jones was awarded the Honorary Life Fellowship Award, accepting the award from Joshua Ngoma



Richard Beck reading the citation for Cyril O'Connor, recipient of the Brigadier Stokes Award



Cyril O'Connor, recipient of the Brigadier Stokes Award, receiving his Platinum Medal from Joshua Nkoma



Recognition of Danie Krige who has been elected a Foreign Associate of the United States National Academy of Engineering (NAE)

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G.D. Louw receiving his 50-year Membership lapel badge

50-year Membership Awards



D.C. Brink receiving his 50-year Membership lapel badge



H. Kotze receiving her Gold Medal Award, for her paper that was published in the *Journal*



P.J. van Staden receiving his Silver Medal Award, for the paper that was published in the *Journal*



M. Gericke receiving her award, for the paper that was published in the *Journal*



J.W. Neale receiving his award, for the paper that was published in the *Journal*



R.T. Jones receiving his Certificate of Merit, for the paper that was published in the *Journal*



Q. Reynolds receiving his Certificate of Merit, for the paper that was published in the *Journal*



P. Neingo, receiving her Student Prize



R. Couperthwaite, receiving his Student Prize



B. Steyn, receiving his Student Prize

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G. Mare, receiving his Student Prize



M. Neale, receiving his Student Prize



V. Eva, receiving his Student Prize



John Cruise, delivering a summary of his final financial report after 20 years as Honorary Treasurer



Du Toit Grobler, of the South African Institute of Electrical Engineers



Gys Landman presenting Joshua Ngoma with his Presidential plaque

Office Bearers for 2010/2011



Office Bearers for 2010/2011 – Front row (from left to right): John Cruise, Gys Landman, Joshua Ngoma, and Nielen van der Merwe; Back row (from left to right): Marek Dworzanowski, Julie Dixon (Manager), and Gordon Smith

Past presidents of the SAIMM



Front row (from left to right): Oskar Steffen (1989–1990), Richard Beck (1991–1992), Robbie Robinson (1975–1976), Andrie Garbers-Craig (2008–2009), Rams Ramokgopa (2002–2003), John Cruise (1994–1995);
Back row (from left to right): Mike Rogers (1999–2000), Rick Mohring (1997–1998), Joshua Ngoma (2009–2010), Dick Stacey (2003–2004), Roger Dixon (1998–1999)

Council members and Branch Chairmen of the SAIMM



Council members for 2010/2011 —Front row (from left to right): Wynand Erasmus, Rodney Jones, Paul van der Plas, Bertha Litana, Alex du Plessis, and Jacob Mothomogolo;
Back row (from left to right): Charles Deacon, Sixtus Mulenga, Jim Porter, Vaughn Duke, Steve Bradshaw, William Joughin, Dirk van Niekerk, Wence Kutekwatekwa, Henry Zimba, Paul Fouche, and Dave Tudor

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Members and their guests at the cocktail party



Roger Dixon, Du Toit Grobler and Rick Mohring



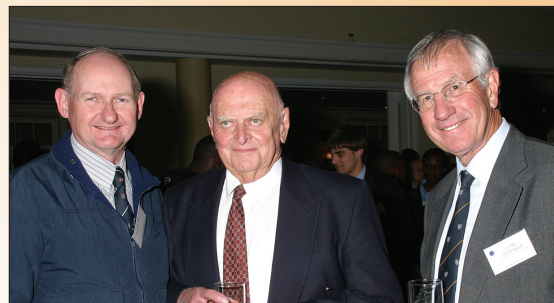
Rodney Jones and Quinn Reynolds



Frikkie Fourie and Ronny Webber-Youngman



Paul Nex, Judith Kinnaird and Andy Clay



Roger Paul, Robbie Robinson and Cyril O'Connor



Oskar Steffen, Mike Woodhall and John Luckmann



Danie and Ansie Krige



Wynand Marx and Wolter De Graaf



University students enjoying the cocktail party after the AGM