



**UNIVERSITY OF
KWAZULU-NATAL**

GRADUATION CEREMONY

FACULTY OF ENGINEERING

FRIDAY, 18 APRIL 2008

10h00

**SPORTS CENTRE
(WESTVILLE CAMPUS)**

OFFICERS

Chancellor	Dr FN Ginwala LLB(London), Barrister at Law(Inner Temple), DPhil(Oxon), LLD(honoris causa)(Natal), LLD(honoris causa)(Rhodes)
Vice-Chancellor and Principal	Professor MW Makgoba MBChB(Natal), DPhil(Oxon), FRCP(Lond), FRSSAf, MASSAf, AMP(INSEAD)
Chairman of Council	Dr TV Maphai BA, BAHons(Unisa), BPhil, MPhil(University of Leuven), DPhil (Natal) Advanced Management Program (Harvard)
Deputy Vice-Chancellor (<i>Administration and Corporate Governance</i>)	To be appointed
Deputy Vice-Chancellor (<i>Research, Knowledge Production and Partnerships</i>)	Professor JU Jacobs BA(Pret), BA (Hons)(UNISA), MPhil, PhD (Columbia), THED, Research Fellow
Deputy Vice-Chancellor (<i>Teaching & Learning</i>)	To be appointed
Deputy Vice-Chancellor and Head of College (<i>Agriculture, Engineering and Science</i>)	Professor PJK Zacharias BScAgric MScAgric(Natal), DSc (UFH) M.G.S.S.A.
Deputy Vice-Chancellor and Head of College (<i>Health Sciences</i>)	Professor LR Uys BCur(Pret), MSocSc(Psychiatric Nursing and Nursing Education)(UOFS) DSocSc (Nursing Science)(UOFS)
Deputy Vice-Chancellor and Head of College (<i>Humanities</i>)	Professor FNM Mazibuko BASocWk, BASocWkHons(UZ), BACommuni- cations(Unisa), MSocSc(Natal), PhD(UIC) Registered Social Worker
Deputy Vice-Chancellor and Head of College (<i>Law and Management Studies</i>)	Professor JC Mubangizi Dip.Ed LLB(Makerere), Dip.L.P (LDC), LLM (Cape Town), LLD (Durban-Westville)
Acting Registrar	Professor JJ Meyerowitz BSc Comp Sc., MSc (Natal)
President of Convocation	Mr AD Young BAdmin, BAdmin(Hons)(UDW)

ENGINEERING

Dean **Professor NM Ijumba**

PrEng, CEng, REng (Kenya and Tanzania), BSc
(Hons)Eng (Dar-es-Salaam), MSc (Salford),
PhD (Strathclyde), MIET, MIEEE

Deputy Dean **Professor E Eitelberg**

PrEng, Dipl.-Ing., Dr.-Ing., Dr.-Ing. Habil
(Karlsruhe), LL(M)(UDW), LL(D)(UKZN),
SMSAIMC

ORDER OF PROCEEDINGS

The Academic Procession enters the Hall

The Acting Chancellor constitutes the Congregation

Welcome to Guests

Professor JPK Zacharias

*Deputy Vice-Chancellor & Head of College:
Agriculture, Engineering and Science*

Congratulatory Remarks

Students' Representative Council

Presentation of Doctoral Graduands

Dean of the Faculty

Introduction of Guest speaker

Orator – Professor FNM Mazibuko

Address

Mr Trueman Goba

Musical Interlude

Presentation of Graduands

Dean and Deputy Dean of the Faculty

The Acting Chancellor dissolves the Congregation

National Anthem

The Congregation is invited to join in the singing of the National Anthem

The Academic Procession leaves the Hall

Key to symbols

- + Passes with distinction in major subject / programme
- * Degree awarded *cum laude*
- α Degree awarded *summa cum laude*
- # Diploma awarded with distinction

Awards of Degrees in the Faculty of Engineering

DOCTORAL DEGREES

Doctor of Philosophy

Akol, Roseline Nyongarwizi, *BScEng (Makerere), MScEng Electronic Engineering*
Thesis: Residue number system coded differential space-time-frequency coding
Supervisor: Professor F Takawira

MASTERS DEGREES

Master of Science in Engineering

Allen, Nicholas Peter, *BScEng Electronic Engineering*
Dissertation: Investigating the combined appearance model for statistical modeling of facial images
Supervisors: Mr B Naidoo and Mr S McDonald

* **Andrew**, Jerome Edward, *BTech (ML Sultan) Chemical Engineering*
Dissertation: Impact of hexenuronic acid on the physical and chemical properties of Eucalyptus clonal pulps during ECF bleaching
Supervisor: Mr I Kerr

* **Appelcryn**, Anton, *BTech (Pretoria), BCom (Unisa) Environmental Engineering*
Dissertation and coursework: Environmental impacts of the construction phase of an intensive development project on coastal forest wetland. Case study: Seaward Estates – Ballito
Supervisor: Professor C Trois

Asah, Miranda Kahndi, *BScHons (Buea)* *Environmental Engineering*
 Dissertation and coursework: Influence of the degree of waste pre-treatment on carbon emissions' production and nature
 Supervisor: Professor C Trois

Chetty, Manogaran, *NatDipEng (ML Sultan)*, *PGDipBusMngt* *Electrical Engineering*
 Dissertation and coursework: Reliability analysis of power transformers
 Supervisors: Professor N M Ijumba and Mr S Govender

* **George**, Salvannes, *BScEng* *Chemical Engineering*
 Dissertation: Determination of activity coefficients at infinite dilution using the inert gas stripping technique
 Supervisors: Professor D Ramjugernath, Professor J D Raal and Dr P Naidoo

Gounder, Prelan, *BScEng* *Chemical Engineering*
 Dissertation: Modeling the effects of textile dyestuffs on the performance of municipal treatment works
 Supervisors: Professor C A Buckley and Mr C J Brouckaert

Greaves, Kevin Robert, *BScEng* *Agricultural Engineering*
 Dissertation: Quantifying and benchmarking irrigation performance with water balances and performance indicators
 Supervisors: Professor N L Lecler and Professor J C Smithers

Groenewald, Abraham Johannes Smit, *BScEng* *Electrical Engineering*
 Dissertation and coursework: A probabilistic based application design guide for the use of tubular conductors in the design of high voltage substations
 Supervisors: Professor N M Ijumba and Mr W C Van der Merwe

Griffiths, Brent Adrian Kenn, *BScEng* *Agricultural Engineering*
 Dissertation: In-field evaluation of irrigation system performance in the South-East lowveld of Zimbabwe
 Supervisors: Professor N L Lecler and Professor J C Smithers

Hirawan, Ranjeetha, *BScEng* *Chemical Engineering*
 Dissertation: Study of thermodynamic models for the accurate representation of the 1-Hexene purification plant
 Supervisors: Professor D Ramjugernath and Professor J D Raal

Johakimu, Jonas Kalebe, *BScEng (Dar-es-Salaam)* *Chemical Engineering*
 Dissertation: Investigation of potential to develop high pulp strength from high yield kraft pulp made from *Pinus Patula*
 Supervisor: Mr I Kerr

- Kennedy, Graham Stuart, BScEng** *Mechanical Engineering*
Dissertation: Experimental and numerical study of heat transfer on turbine blades
Supervisor: Professor S Govender
- Lekganyane, Mokwape Johannah, BScEng** *Electrical Engineering*
Dissertation and coursework: A study of HVDC transmission line audible noise and corona loss in an indoor corona cage
Supervisors: Professor N M Ijumba and Professor A C Britten
- Matshidza, Rhulani Daphney, BTech (Pretoria)** *Electrical Engineering*
Dissertation and coursework: Improved transmission line protection performance concerning high resistance faults
Supervisors: Professor N M Ijumba and Professor R Zivanovic
- Mbolekwa, Zukiswa, BScHons (Fort Hare)** *Chemical Engineering*
Dissertation: Removal of reactive dyes from dye liquor using activated carbon for the reuse of salt water and energy
Supervisor: Professor C A Buckley
- Moller, Bruce Colin, BScEng** *Chemical Engineering*
Dissertation: Development of a group contribution method for the prediction of vapour pressures of organic compounds
Supervisors: Professor D Ramjugernath and Professor J Rarey
- Mouatcho Moualeu, Jules Merlin, BScEng** *Electronic Engineering*
Dissertation: Repeat-punctured turbo coded co-operation
Supervisors: Dr H Xu and Professor F Takawira
- Naidoo, Kribashnee, BScEng** *Electronic Engineering*
Dissertation and coursework: Extending WiFi access for rural reach
Supervisor: Mr R Sewsunker
- * **Naidoo, Thishendren, BScEng** *Chemical Engineering*
Dissertation: Application of a non-linear transformation to the surface fraction of the UNIQUAC model and the performance analysis of the subsequent model (FlexQUAC-Q)
Supervisors: Professor D Ramjugernath and Professor J Rarey
- Parak, Mohamed, BScEng** *Civil Engineering*
Dissertation: Flood estimation for roads, bridges and dams
Supervisor: Professor G G S Pegram

Persadh, Ajith Koowarlall, BTech (DUT) *Electrical Engineering*
 Dissertation and coursework: A study of pole top fires on 22kV wooden pole power lines in KwaZulu-Natal
 Supervisors: Professor A C Britten and Professor N M Ijumba

* **Pillay, Anand, BScEng** *Electrical Engineering*
 Dissertation: A DSP-based digital controller for a thyristor controlled series capacitor
 Supervisor: Professor B Rigby

* **Pisano, Giulia, BScEng (Cagliari)** *Environmental Engineering*
 Dissertation and coursework: Nitrate removal using compost and pine bark as a carbon source
 Supervisor: Professor C Trois

Ramlakhan, Niven Bhimraj, BScEng *Electronic Engineering*
 Dissertation: Downlink call admission control in mixed service DCMA cellular networks
 Supervisor: Professor F Takawira

Reddy, Ravichandran, BScEng *Electrical Engineering*
 Dissertation and coursework: The use of an auxiliary spark gap placed across the surge arrester of a medium voltage transformer
 Supervisor: Dr D Hoch

Shaik, Ahmed Asif, BScEng *Electronic Engineering*
 Dissertation: Sensor system for flex-picker and multi-axis automated machinery
 Supervisor: Professor G Bright

Simelane, Oscar Thamsanqa, BScEng *Civil Engineering*
 Dissertation: Study of the long term emissions from pre-treated waste using test cells
 Supervisor: Professor C Trois

Singh, Ashma, BScEng *Chemical Engineering*
 Dissertation: Applications of teeter bed separators
 Supervisor: Dr J Pocock

Singh, Verosha, BScEng *Electronic Engineering*
 Dissertation and coursework: Performance evaluation of WiMAX for rural backhaul
 Supervisor: Mr R Sewsunker

Sookai, Suren, BScEng *Chemical Engineering*
 Dissertation: The effect of particle properties on fluidized bed hydrodynamics and entrainment
 Supervisor: Professor M Carsky

Master of Science in Construction Project Management

Harinarain, Nishani, *BScQS*

Dissertation and coursework: Identification, quantification and classification of risks pertaining to building contractors in the JBCC (Principal Building Agreement)

Supervisor: Dr A A E Othman

Master of Science in Leadership and Innovation

Modipa, Matome Edmund, *BCom*

Dissertation and coursework: Sustainable socio-economic development and poverty alleviation strategies for communities: a review of the Royal Bafokeng nation initiative

Supervisor: Mr S Bodhanya

Master of Science in Water and Environmental Management

Moodley, Ubendra, *BScEng*

Dissertation and coursework: The influence of turbidity on chlorine disinfection

Supervisor: Professor C Trois

BACHELORS DEGREES

Bachelor of Science in Engineering

(Agricultural Engineering)

Baier, Trevor James Arthur

Boote, Darran Nelson

Dlamini, Gwalisile Sifiso

(Chemical Engineering)

Aboobaker, Nishad
Adam, Farhaad
Ali, Shamsheera
Bhagirathi, Sheekal
Botha, Martin Francis
Bugwandeem, Natasha
Clarke, Stephen Armour
Dokie, Prasheen
Ganas, Amanda Lee
George, Tanusha Deborah
Govender, Chantal Anneline
Govindsamy, Neeven
Groom, Louise Jane
Gurney, Ronelle
Hariparsad, Sanjay, *BSc(UNISA)*
Hayes, Warwick Neville
Jardine, Siraj
Kanhaye, Shiv
Kee, Alan Andrew
Ludwig, Heidrun Astrid
Mabizela, Bentize Buhlebuyeza
Madlala, Sakhamuzi Gift
Maharaj, Remeeta
Maharaj, Saksha
Maharaj, Tasmeena
Maharajh, Subal
Maharajh, Yashveer
Mandri, Yolan Arthur
Mkhize, Ntandoyenkosi Malusi
Mohun, Nithesh Dhanishwar
Moodley, Kershnee
Motala, Tasneem
Mottay, Roxanne Ragini
Mudaly, Sylvester
Myeza, Linda Norman
Nagessar, Natasha
Naicker, Denzil
Naicker, Kershin
Naicker, Vishen
Naidoo, Aveshan

Naidoo, Lavisha
Naidoo, Nevlin
Naidoo, Reagan
Naidoo, Sarvashen
Naidoo, Terry
Naidoo, Thamandri
Naidu, Charvinia
Naiken, Suriakanthi
Naiker, Yagashinie
Nkosi, Martin Bongokuhle
Nzuza, Malibongwe Cristian
Panday, Yathin
Pillay, Jayendren
Pillay, Mahesh
Pillay, Ronald Ralston
Pillay, Seshni
Ramdayal, Dhiren
Ramdeo, Naveeth
Ramdhial, Dipika
Ramparsad, Pariksha
Ramsunkar, Charlene
Reddy, Clinton
Reddy, Kamendra Ganesh Varadaraj
Reddy, Naven
Sardiwalla, Irshaad Ismail
Seebran, Neantha
Sheochand, Yastheel
Sikhondze, Samkelo Samkeliso
Mahhoyane
Singh, Niksha
Singh, Raneel Mansingh
Singh, Shaneel Partab
Somaru, Thanusha
 α **Soo**, Chien Bin
Thevan, Sudeshen
Tshimanga, Mukadi Joseph
Udayar, Tresha
Valayathum Pillay, Preola
Van Der Merwe, Derek Anthony
Zondi, Nomvula Beryl

(Civil Engineering)

Bale, Frans Roller
Bhikha, Nikita Chandrakant
Boyce, Stacey Jane Wentworth
De Sousa, Craig Martinho
Govender, Suranjan
Gumede, Silondiwe Nontuthuko
Gwala, Quinton Ricardo
Ivasen, Rosanne Simone
Keloneilwe, De Graaf
Khan, Naufal
Khashole, Mpho Caroline
Khojane, Nthoana Jeanett
Khumalo, Khanyisile Happy-Eve
Mc Neill, Scott Roy
Mondon, Richard Joseph
Mostert, Johan Wilhelm Christiaan

Mthethwa, Mmangaliso Dumoluhle
Mucambe, Edson Silva David
Mutandanyi, Maanea Mpho
Nageng, Tshepho Itseng
Nel, Reudebaker Bryan
Ngcobo, Zandile Ntombintathu Purity
Pillay, Yolan
Ramchund, Jeshika
Ramlucken, Shivana
Sebonego, Benjamin
Sewmungal, Ashley
Sneddon, Jeffrey
Soobramoney, Yoshina
α **Timol**, Shamima
Tivane, Virgilio Maria Jose

(Computer Engineering)

Dlamini, Sabelo Velemseni
Keadibele, Kagelelo Charles
Mahangi, Avinash
Mangwala, Mmoloki

Pather, Emily Ann
Ramphal, Shekhar
Sigweni, Boyce Balekani
Wilmans, Jared

(Electrical Engineering)

Brayshaw, Richard Bertram Maclear
Coulson, Guy Stewart
Dumakude, Thabile Sylvia
Govender, Dayalan
Magcaba, Sindisiwe Octavia
Mailula, Katudi Oupa
Malima, Abel
Malope, Caslet Isaac
Manto, Tyne Andrea
Mpanza, Zanele Angel
Mqadi, Dumusani Nicholas
Nchabeleng, Lebogang Mante
Ndlovu, Virginia Bawinile

Ntombela, Phaphamani Mthokozisi
Pahaladh, Nivesh
* **Palhad**, Chenal
Pratt, Richard Craig
Punwassi, Vikesh
Rasekaba, Tsholofelo Mmamokgele
Ratsibi, Vusani Portia
Samjowan, Cintesh Debipersadh
Sebela, Petrus Mokgoko
Senosi, Keabetswe Paul
Sibiya, Mlungisi Brian
Singh, Bradley
Soni, Monde

(Electronic Engineering)

Akoob, Fayyaz
Bhownath, Rinel
Bissell, Darren
Chang, Ta-Wei
Chetty, Prenishlin
Coetzee, Vaughn
Dales, Andrew Maxwell
Devnarain, Jesche
Ferris, Mark Howard
Fiddler, Adam Joseph
Gopal, Bhavesh Kishore
Govindasamy, Ramana
Gumede, Wiseman Sibonelo
Hedin, Andrew Lars
Jagdaw, Kashveer
Juggernath, Shahil
Kalayakgosi, Gaokgakala
Kistensamy, Clinton Jathaniel
Konar, Karmini
Lebeko, Mpai
Luyo Sanchez, Robert Felix
Mabika, Thembinkosi Norman
Maharaj, Avind Surendranath
Maritz, Marko Justine
Meyerowitz, Andrew Eric
Mhlongo, Abednego Nsizwa
Moodley, Sheridan
Mountford, Gregory Allan
Mpanza, Mpumelelo Neo
Mthethwa, Bhekisizwe Mzimkhulu

Mungar, Shikar
Naidoo, Krishna
Naidoo, Nathaniel Jonathan
Naidoo, Shrikant Virendra
Nayager, Seeralin
Newalani, Shamir
Owthar, Sudhir
Panday, Vitesh Rajhan
Papaphotis, Michael Alexandro
* Pauck, Simon James
Perumal, Srinivasan
Peters, Lynton Llewellyn
Ramadeen, Priaash
Ramjan, Arshaad
Ramjathan, Keshir
Ridl, Tomas Jeremy
Roux, Sean Calvin
Sanderson, Daniel
Sebajoa, Motutse Alexis
Sekoere, Tseliso
Sewruttan, Kavish
Sibisi, Sinothi
Singh, Shivan Royith
Smythe, Matthew Michael
Soni, Jaymal Himet
Speirs, Bruce Alexander
Vahed, Anwar
Vather, Eveshen
Whyte, Aldaine

(Mechanical Engineering)

Abdul, Suraya
Abrahams, Oliver Steven
Amarlal, Rikesh
Amojee, Daoud Mahomed
Baksh, Mahomed Suhale
Bohlken, Isaac
Bontsi, Gosalamang
Buthelezi, Zakhele Goodnough
Carter, Wayne Richard
Chirambo, Victor Stephen
Coles, Bevan Damon
Cowley, Wesley Gordon
Cronje, Reuben Pierre
Dlamini, Msindazwe
Ebrahim, Hassan
* Garach, Darshik Vinay
Govender, Devendren
Govender, Karl Lloyd
* Grace, Jeremy John
Hassan, Nazmier
Heath, Clinton Clyde
* Jugroop, Pavan Rajan Ramrajh
Khomu, Vusumuzi Aurelius
* Kimble, Tyron Luke
Krause, Herman Friedrich
Limbada, Junaid
Maharaj, Binay Kevin
Malevu, Mbongiseni Cyril
Manley, Neill Reiken
Matakanya, Nkhumeleni Nhlanhla
Mia, Zia-Ur-Rahman
Mkhabela, Sipho Ziphozonke Theophelus
Mkhize, Mhleli Nkosinathi
Mogale, Patience Kagiso
Moodley, Deva Kumaran
Moodley, Devlin
Moola, Majeda
Mordehay, Yaniv
Mzondo, Lester Luvuyo
Nagesar, Shavin
Naidoo, Francois
Naidoo, Keagan
Naidoo, Keegan
* Naidoo, Mogantheran
Naidoo, Rayen
Naidoo, Uresen
Ngozo, Mhabuhlangeni Richard, BSc
(UNISWA)
Nhlabatsi, President Vusie
Nhlapo, Wiseman Siphon
Nxumalo, Samukelisiwe Edith
Padayachee, Jared
Pather, Deeven
Peer, Khalid
Perry, Michael James
Pillay, Kevin
Pillay, Meshanthan
Pillay, Prineven
Rabikrisson, Nitesh
Reddy, Prishaun
Reeves, James Christopher
Roberts, Bradley
Robins, Mark
Schreiner, Buchan Deneys Jeremy
Sibisi, Lindiwe Primrose
Singh, Ashrant
Slabbert, Richard Peter
Smith, Dylan Rodney
Spaull, William Tilbury
Sublal, Gandhi
Sukdeo, Shirish
Sukool, Yashiv
Thaver, Meshantha
Tootla, Zakir Mohammed
Vaughan, Bernard John
Whiting, David Garfield

Bachelor of Science in Land Surveying

Coulthard, Shane
Hangula, Nathanael
Molefe, Thembuyise Wiseman

Mosiane, Thabo Joseph
Nxumalo, Mandla Andrias
Tafa, Tapiwa Tibathu

Bachelor of Science Honours in Property Development (Construction Management)

Bowden, James Jeffery, *BSc(PropDev)*
Duma, Thandeka Princess, *BSc(PropDev)*
Mlotshwa, Dumisani Petros, *BSc(PropDev)*
Mthalane, Dumisile Ntombiyenkosi, *BSc(PropDev)*
O'Connor, Ross, *BSc(PropDev)*

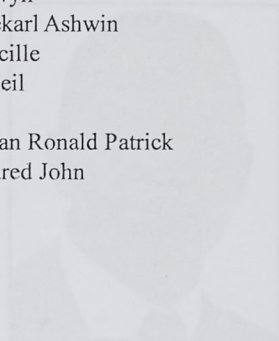
Bachelor of Science Honours in Property Development (Quantity Surveying)

Bissessor, Shevira, *BSc(PropDev)*
Charles, Serica Sanchia, *BSc(PropDev)*
Gabada, Mzuyanda, *BSc(PropDev)*
Maphanga, Tenina, *BSc(PropDev)*
*** Mia, Basheera, *BSc(PropDev)***
Mohale, Tanki, *BSc(PropDev)*
Monkhi, Mphokoana Meriam, *BSc(PropDev)*
Motsa, Nelisiwe Takitsi, *BSc(PropDev)*
Mpanza, Nontuthuko Qhawekazi, *BScQuanSur(Pretoria)*
Peer, Muhammad Khalelur Razzack, *BSc(PropDev)*
Qhobosheane, Rethabile Jane Cecilia, *BSc(PropDev)*
Ramchub, Varoon, *BSc(PropDev)*
Rieseberg, Wayne, *BSc(PropDev)*
Wilson, Grant Langley, *BSc(PropDev)*

Bachelor of Science in Property Development

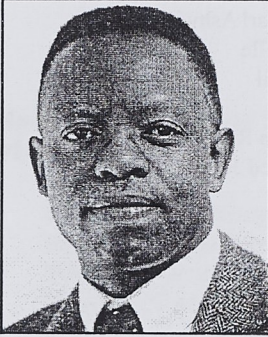
Conrads, Stefan Mathias
D'Aubrey, Simon Christopher
Gabriel, Shalayne Channelle
Gcumisa, Hazel Thembeke
Govender, Mazlan
Hare, Ryan Hank Alexander
Kilburn, Wade Harris
Lebona, Lelecha
Mabin, Stephen George
Malebanye, Nthatisi Bernice
Maliehe, Motselisi Geanett
Manson, Graeme

Mbambo, Mluleki Ronald
Paruk, Mahomed
Pillay, Mayuri
Purchase, Michael Richard
Ramiah, Kalwyn
Sanichur, Mekarl Ashwin
Sarabjiet, Lucille
Sirbadhoo, Neil
Toyisi, Uvile
Weyers, Declan Ronald Patrick
Wilkinson, Jared John



**GUEST SPEAKER
OF THE UNIVERSITY OF KWAZULU-NATAL**

Mr Trueman Goba



Trueman Tandabantu Goba epitomises inspiration, innovation, pursuance of excellence and success in civil engineering. Throughout his career, he has distinguished himself in geotechnical investigations, structural design, hydraulics, portable water supplies and sanitation and social infrastructure for rural communities.

The successes of his engineering practice in several award winning projects in SA, including the Nelson Mandela Bridge, the N4 Platinum Toll Freeway in North West, the Berg River Dam at Franschhoek, Western Cape, the Durban Harbour Tunnel as well as the Tsitsa River Bridge in Eastern Cape are testimony of innovation and entrepreneurship.

An engineer with a strong social conscience, he successfully undertakes major complex professional technical engineering projects as well as community-based ones with honour, ingenuity and success.

He is the President of the Engineering Council of SA (ECSA), Executive Chairman of Goba (Pty) Ltd Consulting Engineers and Project Managers, Fellow and Past President of the SA Institution of Civil Engineering, Fellow of the SA Academy of Engineering, Out-going Member of the Construction Industry Development Board (CIDB). He chairs the International Affairs Committee of Engineering Council of SA and serves on numerous voluntary associations.

Trueman Goba graduated with a Bachelor of Science in civil engineering at the University of Natal in 1979. He studied fluid mechanics and obtained a Masters of Civil Engineering at Cornell University in Ithaca New York, qualified in Public Policy and Development Administration at the University of Witwatersrand.

He received the Dr E G Malherbe Award for outstanding contribution to Education, Science and Industry from the Convocation of University of Natal in 2002.

IHELE

Obani labo?
Baphi?
Ngibona beza beyikazela
Bathwel' ongiyane
Bavela kuphi na?
Obani labo?
Ongqondongqondo, oSibakhulu
Yibo Laba
Yini na leyo
Ihele, ihele lezingwazi zakithi
Udwendwe lwezingwele zakithi
Nant' ihele loNgqondongqondo
Nant' ihele loSibakhulu
Udwendwe lwezingwele zakithi
Dedani bangene; kodwa nathi siyeza
Dedani badlule; nathi siyalandela
Sithi: halala, halala
Halala maqhawe esizwe sethu
Unwel' olude, inkonzo enhle
Sithi: halala!

Phelelani Mnomiya

GAUDEAMUS IGITUR

Gaudeamus igitur, juvenes dum sumus;
Gaudeamus igitur, juvenes dum sumus;
Post jucundam juventutem,
Post molestam senectutem,
Nos habebit humus, nos habebit humus.

Ubi sunt qui ante nos in mundo fuere?
Ubi sunt qui ante nos in mundo fuere?
Vadite ad superos, transite ad inferos,
Ubi jam fuere, ubi jam fuere.

Vita nostra brevis est, brevi finietur;
Vita nostra brevis est, brevi finietur;
Venit mors velociter, rapit nos atrociter,
Nemini parcetur, nemini parcetur.

Vivat Academia, vivant Professores,
Vivat Academia, vivant Professores,
Vivat membrum quodlibet,
Vivant membra quaelibet,
Semper sint in flore, semper sint in flore.

NATIONAL ANTHEM

Nkosi sikelel' iAfrika
Maluphakanyisw' uphondo lwayo
Yizwa imithandazo yethu
Nkosi sikelela
Thina lusapholwayo.

Morena boloka
Setjhaba saheso
Ofedise dintwa lematshwenyeho.

O se boloke, O se boloke
Setjhaba saheso
Setjhaba sa, South Afrika,
South Afrika.

Uit die blou van onse hemel
Uit die diepte van ons see
Oor ons ewige gebergtes
Waar die kranse antwoord gee
Sounds the call to come together
And united we shall stand
Let us live and strive for freedom
In South Africa our land.

NATIONAL ANTHROPOLOGY

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