

Ceremony 8

**Faculty of Engineering, the Built Environment and
Information Technology**

▪ **School of the Built Environment**

Friday, 7 April 2017, 09:30

Vodacom NMMU Indoor Sports Centre, South Campus, Summerstrand

CONGRATULATORY MESSAGE

Graduation is a momentous occasion, representing the crowning moment of all your hard work and the many sacrifices that you and your loved ones have made to reach this milestone.

For us, graduation is the highlight of the university calendar as we witness successful students cross the stage to be capped and enter a new chapter in their lives. Each of you has a unique story to tell.

We salute and applaud your achievement and wish you all the best in your future endeavours. Your time here at the Nelson Mandela Metropolitan University (NMMU) was but a stepping stone towards your future.

We trust that NMMU has equipped you not only with an excellent academic qualification for the many challenges of life and work, but also with life-changing experiences to shape your future.

It is our wish that you will leave here today as proud NMMU graduates who will continue to champion social justice and equality, and be change agents in building a better society and a better world.

Thank you for offering us the privilege of making NMMU a part of your life. Your success is our success, and as NMMU alumni, we look forward to watching your story unfold.

Congratulations!

Ms Santie Botha
Chancellor



Prof Derrick Swartz
Vice-Chancellor



ABOUT NMMU

Nelson Mandela Metropolitan University (NMMU) is a new generation university, distinguished by a wide range of study options and access routes open to students. With 450 programmes from certificate through to doctoral level across 130 different career fields, NMMU truly is a comprehensive university.

Founded on more than a century of quality higher education, NMMU nurtures innovation, fosters creativity, embraces technology and develops people to meet the challenges of tomorrow. NMMU is a product of a merger of the University of Port Elizabeth and the PE Technikon in 2005. Prior to such a merger, the Vista University campus of Port Elizabeth was incorporated into the former University of Port Elizabeth. The university has a strong track record of research, working extensively in partnership with business and industry, making NMMU a valued contributor to the socioeconomic development of the region and beyond.

This year (2017), the university has 24530 students and close to 4100 permanent and contract staff, based on seven campuses in Nelson Mandela Bay and George.

Leaders

NMMU's Vice-Chancellor is Professor Derrick Swartz, the Chancellor is Ms Santie Botha and the Chair of Council is Judge Ronnie Pillay.

Location

Six of NMMU's campuses are in Nelson Mandela Bay and one is in George on the Garden Route. The seven campuses are:

- South Campus in Summerstrand (within a 720-hectare private nature reserve)
- North Campus in Summerstrand
- Second Avenue Campus, home to the new "green" Business School, in Summerstrand
- Bird Street Campus which will be a new postgraduate arts hub in Central
- Missionvale Campus in Missionvale
- George Campus in George
- The Ocean Sciences Campus (recently purchased from CSIR)

Facilities and supportive teaching and learning environment

NMMU is privileged to have outstanding facilities. All students have access to well-equipped laboratories, some of which are open 24/7, and free Wi-Fi throughout all its campuses. All the lecture halls are equipped with the latest technology and students have the opportunity of using additional e-learning tools online. The campus libraries and information services network offers a state-of-the-art integrated online system. There are cafeterias, food courts and coffee shops.

A range of opportunities are provided to enhance the academic success of students. These include a first-year orientation programme, peer-facilitated learning opportunities (eg, Supplemental Instruction, e-PAL, tutorials, practicals, mentor programmes, 'Keys to Success' workshops and online resources). NMMU also promotes both in and outside of the class learning to enhance holistic student development. To recognise the learning that takes place outside of the class, NMMU has developed an innovative, electronic co-curricular record system.

The University also offers the finest sporting facilities in the Eastern Cape and numerous venues for conferences, meetings and other special events.

Faculties

NMMU has seven faculties. They are:

- Arts
- Business and Economic Sciences
- Education
- Engineering, the Built Environment and Information Technology
- Health Sciences
- Law
- Science

Academic focus areas

Though NMMU prides itself on its vast range of programme offerings, it has a number of strategic areas in terms of its core business of teaching and learning, research and engagement. They are:

- Health and wellness
- Economic and business development with a focus on job creation and entrepreneurship
- Materials and process development for industry and manufacturing
- Emerging information and communications technology for development
- Environmental and natural resource management
- Culture, communication and language
- Leadership, governance, democracy and justice
- Educational development in support of excellence in teaching, learning and curriculum
- Infrastructure and human settlement development

Strategic research areas

- Biodiversity conservation and restoration
- Coastal marine and shallow water ecosystems
- Cyber citizenship
- Democratisation, conflict and poverty
- Earth Stewardship Science
- Health and wellbeing
- Humanising pedagogies
- Manufacturing technology and engineering
- Nanoscale characterisation and development of strategic materials
- Science, Mathematics and Technology Education for Society
- Strategic energy technologies
- Sustainable human settlement development and management
- Sustainable local economic development

Research and Engagement entities

NMMU has 31 focused faculty based and 7 institution-wide entities (institutes, centres and units) that exist over and above the formal academic structures that are aimed at promoting engagement, research, technology transfer and innovation. They include the likes of InnoVenton; NMMU's Institute for Chemical Technology and Downstream Chemicals; eNtisa, an institute that focuses on seeking solutions through engineering; Earth Stewardship Science Research Institute (ESSRI); and Institute for Coastal and Marine Research. Many are award-winning entities.

'Green' endeavours

In line with its value of respect for the natural environment, NMMU is involved in a large number of "green" initiatives that will not only reduce its own carbon footprint but is also assisting others in seeking renewable energy resource solutions. The university's new Business School, for example, was the first in the country to be awarded four-star "green" accreditation for a public and education building by the Green Building Council of South Africa in 2013. The "green" agenda is supported by the Centre for Renewable Energy, which is recognised as a research leader in the field.

International links

Just over 8% of NMMU's student body comes from 64 different countries outside of South Africa. The Office for International Education fosters relationships and manages inter-institutional linkages to enrich both NMMU staff and students. These partnerships also foster our growing research. NMMU regularly sends students for study abroad opportunities.

Reasons to be proud:

- NMMU's diversity and multiculturalism. Our African students alone come from 34 countries on the continent.
- The High Resolution Transmission Electron Microscopy (HRTEM) Centre, which opened in 2011, is the only place in Africa where scientists can view atoms in line with NMMU's growing prominence for nanoscience.
- More than 40% of NMMU academic staff have doctoral degrees when compared to the national average of 33%.
- New infrastructure like the iconic Engineering block on North Campus and the new Human Movement Science Building complete with a 100m research sprint track on South Campus.
- NMMU has excellent links with industry and business, particularly within the pharmacy, tourism and automotive industries.
- NMMU's ongoing education partnership with Fifa, as one of only two presenters in Africa of an international sports management programme through the Centre International d'Etude du Sport (CIES).
- The success of being the first student racing team from Africa to successfully compete in the Formula Student event in Germany. NMMU students designed and built a racing car to exacting specifications.
- The university was selected in 2012 to facilitate the country's first electric e-mobility programme and technical centre, called the uYilo e-mobility programme.
- NMMU has extensive expertise within the field of friction processing which has resulted in numerous national awards for the patented technology, WeldCore®. This technology has also aligned the strategic partnership between NMMU and Eskom.
- NMMU's accounting and pharmacy students who continue to produce top results in their national external examinations.
- NMMU's international award-winning choir which continues to perform around the globe to wide acclaim.

ACADEMIC DRESS

Special academic attire was designed for office bearers at Nelson Mandela Metropolitan University to be worn at prestigious academic events like graduation.

Each outfit – from that of the Chancellor and Vice-Chancellor to those of the Executive Deans – has been especially selected to signify a particular office, in keeping with attire worn by academics at leading universities throughout the world.

The gowns, caps and hoods of NMMU graduates were similarly inspired and are explained in detail below.

Academic dress for graduates at NMMU is as follows:

Doctoral degrees

Gown: Cardinal red polyester cashmere gown with long pointed sleeves pleated up with blue cord and button and lined with blue satin with 125mm facings and a blue collar.

Hood: Full shape hood in cardinal red polyester cashmere lined with faculty colour satin and edged around the cowl with 75mm faculty colour ribbon with 15mm blue ribbon overlaid central. 50mm wide straight neckband in cardinal red polyester cashmere, 25mm faculty colour ribbon in centre of neckband with 15mm blue ribbon overlaid central to faculty ribbon.

Cap: Round doctor's bonnet in black velvet with faculty colour cord and tassel.

Master's degrees

Gown: Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail is used.

Hood: Full shape blue hood lined faculty colour satin and edged around the outside of the cowl with 75mm faculty colour with ribbon. 50mm straight neckband in blue with 25mm faculty colour ribbon centred.

Cap: Black mortarboard with blue tassel.

Postgraduate diplomas

Gown: Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail.

Hood: Blue simple shape hood lined silver grey satin. Straight neckband with 15mm faculty ribbon on top edge of neckband and around cowl. 15mm silver grey ribbon on bottom edge of neckband and around cowl spaced 20mm away from the faculty colour.

Cap: Black mortarboard with blue tassel.

Bachelor honours degrees

Gown: Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail.

Hood: Blue simple shape hood lined silver grey satin with 50mm wide straight neckband in faculty colour. Cowl edged 75mm faculty colour ribbon on the outside. 15mm silver grey ribbon runs along the outer edge of the cowl, overlaid on faculty ribbon and on top edge of neckband.

Cap: Black mortarboard with blue tassel.

Four-year bachelor's degrees (including Bachelor of Technology degrees)

Gown: Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail.

Hood: Blue simple shape hood lined silver grey satin with 50mm wide straight neckband in faculty colour. Cowl edged 75mm faculty colour ribbon on the outside. Silver grey cord runs along the outer edge of the cowl, overlaid on faculty ribbon and on top edge of neckband.

Cap: Black mortarboard with blue tassel.

Three-year bachelor's degrees

Gown: Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail.

Hood: Blue simple shape hood lined with silver grey satin with 50mm wide straight neckband in faculty colour. Cowl edged 75mm faculty colour ribbon on the outside.

Cap: Black mortarboard with blue tassel.

Advanced diploma

Gown: Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail.

Hood: Blue simple shape hood lined with silver grey satin with 50mm wide straight neckband. 15mm faculty colour ribbon on top and bottom of neckband around cowl.

Cap: Black mortarboard with blue tassel.

Diploma

Gown: Black gown, long pointed sleeves pleated up with blue twisted double cord and button. Similar cord detail.

Hood: Blue simple shape hood with 50mm wide straight neckband. 25mm faculty colour ribbon on centre of neckband.

Cap: Black mortarboard with blue tassel.

Faculty colours

Arts:	Yellow
Business & Economic Sciences:	Plum
Health Sciences:	Apple green
Law:	Grey blue
Education:	Orange
Science:	Dark green
Engineering, the Built Environment and Information Technology:	Light blue
Business School	Black and magenta

Messrs T. Birch & Co (Pty) Ltd and its subsidiary, Croft Magill & Watson (Pty) Ltd, have been appointed as official robemakers to the University and as contracted suppliers of choice to students for graduation academic attire.

The Image Factor has been appointed as the official photographer of the University.

2017 AUTUMN GRADUATION CEREMONIES APRIL 2017

Friday, 31 March 2017		
Ceremony 1	09:30	George Campus All Programmes
Tuesday, 4 April 2017		
Ceremony 2	09:30	Faculty of Arts (School of Architecture; School of Music, Art & Design and School of Language, Media & Culture)
Ceremony 3	14:30	Faculty of Education
Wednesday, 5 April 2017		
Ceremony 4	09:30	Faculty of Business and Economic Sciences (School of Management Sciences - excluding Undergraduate Diploma qualifications)
Ceremony 5	14:30	Faculty of Arts (School of Governmental & Social Sciences)
Thursday, 6 April 2017		
Ceremony 6	09:30	Faculty of Business and Economic Sciences (School of Economics, Development & Tourism)
Ceremony 7	14:30	Faculty of Business and Economic Sciences (School of Industrial Psychology & Human Resources, Graduate School and others)
Friday, 7 April 2017		
Ceremony 8	09:30	Faculty of Engineering, the Built Environment and Information Technology (School of the Built Environment)
Ceremony 9	14:30	Faculty of Engineering, the Built Environment and Information Technology (School of Engineering)
Saturday, 8 April 2017		
Ceremony 10	09:30	Faculty of Engineering, the Built Environment and Information Technology (School of Information & Communication Technology)
Ceremony 11	14:30	Faculty of Science (School of Computing Sciences, Mathematics, Physics & Statistics and School of Biomolecular & Chemical Sciences)
Monday, 10 April 2017		
Ceremony 12	09:30	Faculty of Science (School of Environmental Sciences)
Ceremony 13	14:30	Faculty of Law Faculty of Business and Economic Sciences (School of Accounting, Postgraduate qualifications including Bachelor of Technology degrees)
Tuesday, 11 April 2017		
Ceremony 14	09:30	Faculty of Health Sciences (School of Clinical Care Sciences and School of Medicinal Sciences)
Ceremony 15	14:30	Faculty of Health Sciences (School of Behavioural Sciences and School of Lifestyle Sciences)
Wednesday, 12 April 2017		
Ceremony 16	09:30	Faculty of Business and Economic Sciences (School of Accounting – Undergraduate qualifications)
Ceremony 17	14:30	Faculty of Business and Economic Sciences (School of Management Sciences – Undergraduate Diploma qualifications)

OFFICE-BEARERS OF THE UNIVERSITY

CHANCELLOR

MS S BOTHA: BEcon, BEconHons(US)

CHAIRPERSON OF COUNCIL

JUSTICE R PILLAY: BA, LLB(UDW)

VICE-CHANCELLOR

PROF DI SWARTZ: BA(UWC), MA, DPhil, Doctor in Human Rights Law (hc)(Essex University, UK)

DEPUTY VICE-CHANCELLOR: INSTITUTIONAL SUPPORT

DR SW MUTHWA: BA(SW)(Fort Hare), BA(SW)Hons(Wits), MSc, PhD(London University, UK)

DEPUTY VICE-CHANCELLOR: RESEARCH AND ENGAGEMENT

PROF AWR LEITCH: BSc, BScHons, MSc, PhD(UPE)

DEPUTY VICE-CHANCELLOR: TEACHING AND LEARNING

PROF DM ZINN: BA, BAHons, HDE(UCT), MEd, DEd(Harvard University, USA)

EXECUTIVE DIRECTOR: FINANCE

MR MR MONAGHAN: BCom(UPE), BComHons(UNISA), Professional Accountant(SA)

EXECUTIVE DIRECTOR: HUMAN RESOURCES

MS VN BAM: BSocSc(UCT), PGDip(UFH), MBL(UNISA)

REGISTRAR

DR F GOOLAM: BSc, HDE, BEd, MEd(UDW), PhD(UP)

PRESIDENT OF ALUMNI ASSOCIATION

DR R JONAS: BA(UWC), HDE, BAHons(Unisa), MA(UPE), PhD(NMMU)

EXECUTIVE DEANS OF FACULTIES:

ARTS

PROF MJR BOSWELL: BSocSc, BSocScHons, MSocSc(UCT), PhD(Vrije Universiteit, Netherlands)

BUSINESS AND ECONOMIC SCIENCES

DR I LAGARDIEN: PGDip, MSc(London School of Economics), PhD(University of Wales)

EDUCATION

DR SF MOENG: BA, HDE, BEdHons(UPE), MSc(St Cloud State University, USA), DEd(NMMU)

ENGINEERING, THE BUILT ENVIRONMENT AND INFORMATION TECHNOLOGY

DR OSW FRANKS: BSc MechEng, MInd Admin(UCT), Hons (B&A)(US), PhD (Engineering Science)(USF - USA), Pr Eng

HEALTH SCIENCES

PROF L PEPETA: MBChB (Unitra), FCPAED(SA), DCH(SA), MMed (Wits)

LAW

PROF A GOVINDJEE: BA, LLB(RU), LLM(UPE), LLD(NMMU)

SCIENCE

PROF A MURONGA: BSc, UED(UNIVEN), BScHons, MSc(UCT), PhD (University of Minnesota, USA)

DEAN OF TEACHING AND LEARNING

PROF CD FOXCROFT: BA, BAHons, MA, DPhil(UPE)

DEAN OF STUDENTS

MR LP JACK: NDip(PMA)(EC Technikon), BTech(PM)(PET), BAPhil(US), MCom(UKZN)

ORDER OF PROCEEDINGS

ENTRANCE OF ACADEMIC PROCESSION

(The congregation is requested to rise while the academic procession enters the hall)

MOMENT OF SILENCE

Director: Marketing and Corporate Relations
(The congregation is requested to remain standing)

CONSTITUTION OF CONGREGATION AND WELCOME

Vice-Chancellor
(The congregation is requested to be seated)

AWARDING OF QUALIFICATIONS

Vice-Chancellor

DISSOLUTION OF CONGREGATION

Vice-Chancellor

NATIONAL ANTHEM

(The congregation is requested to stand for the singing of the National Anthem)

DEPARTURE OF ACADEMIC PROCESSION

(The congregation is requested to remain standing until the academic procession has left the hall)

INFORMATION TO MEMBERS OF THE CONGREGATION

Members of the congregation are requested:

- *To rise and remain standing while the academic procession enters and leaves the hall.*
- *Not to leave the hall before the end of the ceremony.*
- *To switch off cellular phones or turn them on silent mode.*
- *Not to move around in the hall.*
- *Not to eat and drink in the hall.*
- *Not to get up and take photographs during the ceremony.*
- *To limit cheering and ululating to a minimum.*



The words **Cum Laude** indicates in the text below that the diploma or degree is awarded with distinction to the candidate/s listed.

NATIONAL DIPLOMA: BUILDING

AINSLEY, Kyle Davied
ANDROLIAKOS, Christopher Devlin
BARNARD, Reuben Johan
BARNWELL, Claudia Paige
BOKUVA, Lwandile
CHILDS, Jonathan James Manning
COETZEE, Riaan Sharl
CUBUNGU, Aphiwe
DE KLERK, Darren Charles
DE LAUWERE, Jean Rene
DLAMINI, Bulelwa Kym
DU PLOOY, Armandt
DU TOIT, Christiaan
EVANS, Bashira
FANG, Chih-Hung
FIHLA, Athenkosi Dalindyebo
FUNANI, Ncumusa Ntombizanele
GALAWE, Mondli Lucky
GCORA, Sihle
GREWE, Robin Nicky
GUGUSHE, Athi Hlokoma
HASSIM, Mohamed Jubail
HLALUKANA, Zinwe-Zenkosi
KOMPELE, Coceka
LANDMAN, Christiaan
LAWANA, Kwakho
LE ROUX, Gawie Jean-Pierre
LECHE, Evaristus
LOTZ, Jared David
MAHANJANA, Samelangolwazi
MAHOKOTO, Ayabulela
MAILA, Ipeleng
MAKAULA, Lakheni
MARALA, Thabo
MAVODSE, Vutlhari Harmony
MBHALATI, Rirhandzu Seda
MEISE, Jarryd Albert
METISO, Samuel

MOELA, Sethakge Kaizer
MOKONENYANE, Tau
MQELE, Zandisiwe Wendy
MUKHEIBIR, Cameron William
MZWAKALI, Sifanele
NJAJULA, Siviwe
NJOMBA, Busisiwe
NKAYITSHANA, Sinelizwi Funeka
NONKWALI, Ezile
NTSHOBANE, Noniko
OLWAGEN, Marnus
OOSTHUIZEN, Johan Hendrik
PAKKIES, Luvo
PIETERSEN, Rouchelle
PILISO, Zhane Mary-Ann
PRETORIUS, Wandile Walter
SEBUSI, Kagisho
SHARE, Tiaan
SHIBAMBU, Gift
SHWENI, Asive
SITHOLE, Ndalwenhle
SOGCWAYI, Aviwe Nomvuyiso Princess
TAPULA, Yanga
TILESE, Neliswa Jessica
TONJENI, Akuthi
TSHANGANA, Sifungo Maxwell
VAN DER WESTHUIZEN, Estian Josias
VAN JAARVELD, Osmond Renier
WATKINS, Jaime
ZINGELWA, Nomfusi

CUM LAUDE

DU PREEZ, Gabriella
LEKOMA, Onalenna
MQONGWANA, Vuyolwethu
NTSHIBA, Peliwe Lizeka
SMITH, Shani

BACHELOR OF SCIENCE IN CONSTRUCTION ECONOMICS

DE KLERK, Matthew Kyle
FERREIRA, Ruan Christo
GOLIGHTLY, Wade Philip
GREWAR, John William
GROBLER, Michael-John
GROOM, Kurt Alex
KAKEMBO, Kevin Catherine
KHOSA, Musa Pleasure
KONZEKA, Khayakazi Ruth
KRIEL, Jakobus Andre
LAMPRECHT, Marnewecke Johannes
MAIFALA, Lethabo Mathukhu
MAJOVA, Atenkosi Atandile Nande
MALUSI, Mlungiseleli
MARSHALL, Gary Brian
MDUDO, Sanelisiwe
MFUKELI, Nomphele

MOKONENYANE, Thabo Bulumko
MORGAN, Craig John
NAMDARKHAN, Yaasiin Ishrafil Waseem Khan
POTGIETER, Regardt Johan
ROACH, Bradley William
STUART-WHITE, Douglas Alastair
TAJE, Thato Stephen
TSHIPUKE, Livhuwani Rodney
TYAMZASHE, Nangamso
WITBOOI, Tsepo Constance
XULABA, Sibulelokuhle

CUM LAUDE

BRADLEY, Nicholas Gawith
HEMPEL, Candice Angelique
LABUSCHAGNE, Wade

BACHELOR OF SCIENCE IN CONSTRUCTION STUDIES

BUCHNER, Lafras
DZOMBE, Jean Rumbidzaishe
GOLIATH, Marsha Eleanor
HOWARD, Luke Anthony
HOWARD, Thomas James

KALI, Kanyisa Lavela
KHOZA, Thulani Nicolas
KLOPPER, Evan John
MAHLANGU, Sibusiso Simon
MASEKELA, Thato Lekau

MFUBESI, Lonwabo Tsepo
MIENIE, Jacobus Willem
MTHUPHA, Fikeveni
MULLER, Lehan
MZIMBA, Uwakhe Visani
NQETO, Phikolomzi
STEENEKAMP, Sarel Johannes
SWANEPOEL, Fritz

VISSER, Herculaas Jacobus
XANYWA, Loyisokazi Aphiwe Shellian

CUM LAUDE

BRADFIELD, Kelvin
GEORGE, Mandisi

BACHELOR OF TECHNOLOGY: CONSTRUCTION MANAGEMENT

BUBB, Donnovin Ernest
CALVERLEY, Wesley
CAPTAIN, Siphenkosi Michelle
DYALIVANE, Zingisa
EKSTEEN, Justin Clive
FEKADE, Chulumanco
GANGQA, Viwe
GREY, Luyanda Benson
HOPGOOD, Ross Cuyler
JAFTA, Aseza
JONKER, Juan-Pierre
KWEBA, Xola
MAGIDA, Siyalizwa
MAJIKIJA, Cosmus Cuma
MBAMBALALA, Litha Msa
MEY, Herman
MHLANA, Putuma Sheilla
MLAMLELI, Unathi
MQOLOMBENI, Gloria Nonyaniso
MYBURGH, Isabel Cynthia
NDLOVU, Chuma Phikiso
NDZINGO, Buyiswa

NGQOLA, Siphosethu
NGUDLE, Sihle
NYANDENI, Lethaba Ziningi
QADI, Dumisani
QUNTA, Zifikile
RALA, Sizwe
ROLS, Noluvo
SHUDE, Aphiwe Sive Lunga
SIBISI, Siphamandla
SIBOTO, Nobubele Ncumisa
SONO, Voninga Prudence
SOWAZI, Lumphumlo Luyolo
TERBLANCHE, Erhard
TSHEFU, Bomkazi
ZOTHE, Asandile

CUM LAUDE

BOOI, Bonga Sivuyisiwe
MAPUKATA, Phumela
MBANGA, Abulele Zakhe

BACHELOR OF TECHNOLOGY: QUANTITY SURVEYING

BOOI, Ziyanda Anelisa
BOUWER, Leslie Cornelius Wessel
BRITS, Gustav Johan
BURGER, Shannon Damian
CAMPBELL, Joshua
COX, Dane River
DANISO, Athi
GUZANA, Sibabalwe
GWENXANE, Zimkita
HANSFORD, Thomas John
HAYWARD, Ruan
JACOBS, Wandisa
JOYI, Yanga
KRATSHI, Sipiwe
KUFA, Msawenkosi
MAC LACHLAN, Rick Anton
MACHANE, Olwethu Andile
MANYATELA, Anam
MAQUNGO, Buntu Chuma
MARAQANA, Nkosinathi Emmanuel
MATINISE, Sisipho Thubelihle
MCCAY, Warren
MHAMBI, Asavela
MILLER, Oscar John
MNDELA, Oko
MSONGELWA, Mphumzi
MVANYASHE, Sipiwo

NGQOTSHO, Oyama
NJAMENI, Avile
NKAYI, Mbaso
NKAYI, Sidanga
NTONGANA, Nwabisa
PEPETA, Anele Dugmore
POTWANA, Avela
PRINSLOO, Nicholas
SIGIDI, Sinotando
STRYDOM, Damien
TATANI, Zuko
TONGO, Zuziwe Lauren
TSHAKA, Lutho
TSHANGASE, Samkelo Siyambonga
TURNER, Henry-Hugh
VAN NIEKERK, Igre
WESTCOTT, Byron Matthew
WILLIAMS, Nomakhakha
XOSEN, Qaqamba Sinovuyo
YAKO, Sizwe
ZOZI, Thabisa
ZWELIBANZI, Lwazi

CUM LAUDE

KUBULI, Samkelo

BACHELOR OF SCIENCE HONOURS IN CONSTRUCTION MANAGEMENT

BEUKMAN, Shaun
BOTHAM, Nicholas Reece
CUNNINGHAM, Brandon Murray
DUKU, Leju
GOVENDER, Kerushan Haveshan
HEINE, Timothy Kurt
MADIKANE, Wanda
MARAQANA, Mafa Hallowmas
MLELE, Thandile

MUSHAYI, Tafadzwa
MUSHAYI, Vincent
NDEMA, Satshosanda
NDWANDWA, Siyamthanda
NETHERCOTT, Brett Alec
PAGEL, Luke Theodore
SEOPA, Sebo Sharon
TSITA, Hlaluso
ZULU, Silindile

BACHELOR OF SCIENCE HONOURS IN QUANTITY SURVEYING

BEST, Rudi Alexander
BROWN, James
DICKS, Matthew Langford
ESMERALDO, Keanu Jerome Barrionuevo
FERGUSON, Tyrone Peter
GCWABAZA, Lungelo Fortune
GERARD, Celine Myriam Marie
GOSSOW, Jessica
HINANA, Ondluhlanga Luthando
KRETMANN, Luke Chad
MABOVU, Lunga
MADUNA, Dineo Zonke
MOFFITT, Matthew Jon
MULLER, Marcus Du Preez

NOTYAWWE, Anje
PASIWE, Lwandile
RASMENI, Chuma Lunga
SABBAGH, Darren Michael
SIKO, Sonwabile
TUMEDI, Gaenametse Nonette
VAN DEN HEEVER, Coenraad Johannes
VISSER, Stephanus
WOON SEK LAW, David

CUM LAUDE

MABALA, Khanyisa

MASTER OF SCIENCE IN THE BUILT ENVIRONMENT (COURSEWORK)

AYESU-KORANTENG, Emma
(*Project Management*)

Title of treatise:

THE EFFECTIVENESS OF HEALTH AND SAFETY SERVICE PROVIDERS' RELATIVE TO CONSTRUCTION

Supervisor: Dr FL Geminiani

BAVU, Sonwabile
(*Property Economics and Valuation*)

Title of treatise:

PROPERTY DEVELOPMENT IN MTHATHA: AN INTERACTIVE FRAMEWORK

Supervisor: Prof B Botha

LUDIDI, Daniel Dumisa
(*Property Economics and Valuation*)

Title of treatise:

HOME OWNERSHIP IN THE GAP HOUSING MARKET IN SOUTH AFRICA

Supervisor: Mr JP Bekker

MARTIN, Monica
(*Project Management*)

Title of treatise:

THE DEVELOPMENT OF A GOOD GOVERNED COSTING MANAGEMENT MODEL FOR MANDELA BAY DEVELOPMENT AGENCY PROJECTS WITHIN THE NELSON MANDELA BAY MUNICIPAL BOUNDARIES

Supervisor: Prof CM Adendorff

MTHI, Vuyolwethu Feza Pilisa
(*Project Management*)

Title of treatise:

QUALITY MANAGEMENT SYSTEMS AS A STRATEGIC PERFORMANCE ENHANCING TOOL: A CASE STUDY OF BAY WEST CITY MALL

Supervisor: Mr CJ Allen

NTAKANA, Khululekani
(*Property Economics and Valuation*)

Title of treatise:

FACTORS THAT WOULD DETERMINE URBAN RESILIENCE WITH SPECIFIC REFERENCE TO EAST LONDON IN BUFFALO CITY METROPOLITAN MUNICIPALITY

Supervisor: Prof SL Mbanga

ROSSOUW, Jeanne Jacques
(*Project Management*)

Title of treatise:

EFFECTIVE COMMUNICATION PLANNING FOR HIGH PERFORMANCE CIVIL ENGINEERING PROJECT TEAMS

Supervisor: Prof GJ Crafford

SONGELWA, Thuthuka Siphumezile
(*Project Management*)

Title of treatise:

AN EVALUATION OF GOVERNMENT HOUSING PROJECTS AGAINST THE BREAKING NEW GROUND PRINCIPLES

Supervisor: Mr JP Bekker

MASTER OF SCIENCE: CONSTRUCTION ECONOMICS (RESEARCH)

DENT, Sharon Peta
(*Construction Economics*)

Title of dissertation:

THROUGHPUT RATES OF QUANTITY SURVEYING STUDENTS: A COHORT ANALYSIS

Supervisor: Prof GJ Crafford

MASTER OF TECHNOLOGY: QUANTITY SURVEYING (RESEARCH)

LOOCK, Morne

Title of dissertation:

THE RISK OF BORROWED CAPITAL FOR COMMERCIAL, INDUSTRIAL AND RESIDENTIAL PROPERTY DEVELOPERS

Supervisor: Prof B Botha

MOLLO, Lesiba George – **Cum Laude**

Title of dissertation:

CONCRETE WORK DECISION ANALYSIS IN BLOEMFONTEIN

Supervisor: Dr FL Geminiani
Co-supervisor: Prof FA Emuze

DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

AMOAH, Christopher

Title of thesis:

PUBLIC PROCUREMENT REFORMS IN GHANA: IMPACT ON THE GROWTH OF THE LOCAL CONSTRUCTION INDUSTRY

Supervisor: Prof WWM Shakantu

ANUGWO, Iruka Chijindu

Title of thesis:

THE SUSTAINABILITY OF SOUTH AFRICAN CONSTRUCTION SMALL, MEDIUM AND MICRO ENTERPRISES

Supervisor: Prof WWM Shakantu

BEKKER, Jakobus Petrus

Title of thesis:

IMPROVING THE SUPPLY OF SUBSIDISED HOUSING IN SOUTH AFRICA

Supervisor: Prof JJ Smallwood

MALI-SWELINDAWO, Bongwi Lorreta

Title of thesis:

SOUTH AFRICAN PUBLIC SECTOR PROPERTY MANAGEMENT: A PERFORMANCE MODEL

Supervisor: Prof B Botha
Co-supervisors: Drs OSW Franks and B Yan

DOCTORAL DEGREE CITATIONS

THE DEGREE OF DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

CHRISTOPHER AMOAH

Previous qualifications:

1995 Senior Secondary school Certificate

St Augustine's College

2004 Bachelor of Science Land Economy

Kwame Nkrumah University of Science and

Technology

2011 Master of Science in Project Management

University of Pretoria

Thesis:

PUBLIC PROCUREMENT REFORMS IN GHANA: IMPACT ON THE GROWTH OF THE LOCAL CONSTRUCTION INDUSTRY

Ghana has undertaken several reforms in her public procurement systems – in an attempt to address the weaknesses of the past procurement practices. However, the effectiveness of these reforms in promoting the local construction firms has not been investigated. This research, therefore, has investigated how the various procurement reforms instituted by the government of Ghana have impacted the growth of the Ghanaian construction sector.

The findings of the research show that; even though public procurement reforms have been able to improve the procurement practices, they have failed to significantly impact the growth of the local construction industry. It was also discovered that local contractors only execute minor works devoid of complexities; and that they are mainly engaged as sub-contractors to foreign firms on major government projects.

The findings also revealed that government has so far not instituted any radical laws in the procurement systems to protect the local construction firms. The research has produced a tender-evaluation template with improved and increased local content mechanisms – with the aim of protecting the local construction industry. The research has also produced tender evaluation formulas for calculating points for bidders; and how the successful bidder should be arrived at.

The study provides recommendations to all the stakeholders in the Ghanaian construction industry; and it proposes that the evaluation criteria produced by this study be used in the public procurement system, in order to help grow the indigenous construction industry.

THE DEGREE OF DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

IRUKA CHIJINDU ANUGWO

Previous qualifications:

2007	BTech (Project Management Technology)	Federal University of Technology Owerri
2014	MSc (Built Environment: Project Management)	Nelson Mandela Metropolitan University

Thesis:

THE SUSTAINABILITY OF SOUTH AFRICAN CONSTRUCTION SMALL, MEDIUM AND MICRO ENTERPRISES

The construction industry is one of the prime sectors that engender the economic sustainability and competitiveness of any nation. The majority of firms in the construction industry are small, medium and micro-enterprises (SMME's). In the South African context, SMMEs account for 95% of the business entities in the construction market. This segment of the South African construction industry faces the threat of chronic business failure, with up to 80% of firms prematurely exiting the market within their first five years of operation. This is of major concern to economic planners; because it impedes sustainability and transformation.

Thus, this study's primary aim was to conduct an in-depth investigation aimed at developing a base level of understanding of the in-process operational elements of surviving SMMEs, who have succeeded beyond their first five (5) years of business operation in South Africa, and developed a model for sustainability. A qualitative-research approach, rooted in the phenomenological paradigm and utilising the in-depth interviewing method, was used for conducting the research.

Thirty-four (34) construction organisations in Grades 4-6 of the CIDB register of contractors were purposively selected and interviewed.

The empirical findings showed that the SMME contractors who had survived the first 5 years of operation possess the following qualities: "Fundamental educational qualifications"; "experience and knowledge of construction works"; "a clear understanding of competitive-business strategies and characteristics"; "critical skills and multi-skills (functional-project teams)"; and "reliance on strategic resources, competencies and capabilities.

A host of strategic drivers, all of which significantly impact on the success, growth and development, as well as the sustainability and survival of SMME contractors, were also identified. Based on these findings, the study developed and recommended a business-survival strategy and a model for SMME contractors in the South African construction industry.

THE DEGREE OF DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

JAKOBUS PETRUS BEKKER

Previous qualifications:

1990	National Diploma (Building Surveying)	Port Elizabeth Technikon
1991	National Higher Diploma (Building Surveying)	Port Elizabeth Technikon
2004	Magister Scientiae in the Built Environment (Construction Management)	University of Port Elizabeth

Thesis:

IMPROVING THE SUPPLY OF SUBSIDISED HOUSING IN SOUTH AFRICA

Despite South African citizens' constitutional right to adequate housing, Government's housing delivery has been described as a multi-stakeholder, multi-phase problem, exacerbated by political interference, as well as corruption. Accordingly, housing delivery is ideologically and politically designed and executed, which means that certain practicalities relative to the construction process are not even considered. Policy and construction-practice incompatibility, therefore, seem to be a major obstacle to government subsidised-housing (GSH) construction. It was, therefore, important to assess whether the current housing policy is sufficiently responsive to contractors' ability to supply GSH.

The research considered the effect of Government's housing-procurement policy relative to quality houses, contractor capability, and government's systemic and administrative capacity, inhibiting the construction sector's ability to supply housing – and impacting on recipients' satisfaction.

The study adopted a post-positivist philosophy, embracing a quantitative approach, which allowed for an in-depth analysis of the differences in terms of GSH stakeholders' perspectives relative to the effect that GSH policy has on the ability of the construction sector to supply GSH.

The research findings indicated that the respondents generally disagreed with the notion that government policy practices do not impact the construction of GSH. It was concluded that government housing-procurement policies are inappropriate for application in the GSH sector; and that any undue influence on the construction sector would influence a contractor's ability to supply GSH.

It was recommended that the South African government critically reassess its current housing-procurement policy, to ensure that it is sufficiently responsive to the needs of the construction sector, by introducing the proposed-results framework for improving GSH supply, and thereby delivering maximum benefit to the GSH.

The study makes a significant contribution to the GSH body of knowledge and construction in South Africa – by presenting a construction-sector perspective to GSH; product-quality dimensions as measurable-quality characteristics for standard GSH, using the South African housing code, and a proposed framework for an alternative result-driven-management tool to improve the supply of GSH in South Africa.

THE DEGREE OF DOCTOR OF PHILOSOPHY IN CONSTRUCTION MANAGEMENT

BONGIWE LORRETA MALI-SWELINDAWO

Previous qualifications:

2012	MTech: Quality (<i>cum laude</i>)	Cape Peninsula University of Technology
2002	BTech: Quality	Peninsula Technikon
2001	PGD: Human Resource Management	Peninsula Technikon
1999	ND: Commercial Administration	Peninsula Technikon

Thesis:

SOUTH AFRICAN PUBLIC SECTOR PROPERTY MANAGEMENT: A PERFORMANCE MODEL

The primary objective of this research study was to develop a performance model deemed necessary – and also to serve as a Best-Practice model for the effective management of Public Sector properties in SA. The study was, therefore, conducted within the South African municipal environment – with the specific purpose of alleviating South African municipalities of the problems associated with overall poor operational performance, dissatisfied Public Sector property stakeholders, and inadequacies in global and competitiveness alignment.

The developed conceptual model identified constructed variables that emanated from an extensive literature review addressing the focus of the research. The variables were operationalised as part of the validity of the quantitative research approach. The statistical procedure deemed appropriate for this intrigued research was Structural-Equation Modelling (SEM). The major empirical findings/constructs of the newly developed performance model for Public Sector Property Management comprise obsolescence and strategic factors, global alignment, finance cost and control, PESTEL impact, transformation and sustainability, monitoring, measurement and control, as well as leadership governance.

The implementation of the Mali-Swelindawo performance model, coupled with recommendations stemming from this research, would rapidly result in higher quality and continual improvement of the South African public sector Property-Management practice. Since a performance model for the effective management of Public Sector properties was not existent before conducting this study, Mali-Swelindawo's research is original, ground-breaking and cutting-edge – in the sense that the knowledge will add new and significant value to the identified area. Consequently, Mali-Swelindawo's research provides a significant contribution to Public Sector Property Management in South Africa. This constitutes a major fiscal role player in the management of State assets.



VISION

To be a dynamic African university, recognised for its leadership in generating cutting-edge knowledge for a sustainable future.

MISSION

To offer a diverse range of quality educational opportunities that will make a critical and constructive contribution to regional, national and global sustainability.

To achieve our vision and mission, we will ensure that:

- Our values inform and define our institutional ethos and distinctive educational purpose and philosophy.
- We are committed to promoting equity of access and opportunities so as to give students the best chance of success in their pursuit of lifelong learning and diverse educational goals.
- We provide a vibrant, stimulating and richly diverse environment that enables staff and students to reach their full potential.
- We develop graduates and diplomates to be responsible global citizens capable of critical reasoning, innovation, and adaptability.
- We create and sustain an environment that encourages and supports a vibrant research, scholarship and innovation culture.
- We engage in mutually beneficial partnerships locally, nationally and globally to enhance social, economic, and ecological sustainability.

VALUES

i. Respect for diversity

- We reflect and serve diverse regional, national and global communities
- We promote an open society where critical scholarship and the expression of a multiplicity of opinions and experiences are actively encouraged
- We foster an environment in which diversity is appreciated, respected and celebrated
- We are committed to accessibility, inclusivity and social justice

ii. Excellence

- We promote, recognise and reward excellence in our teaching, learning, research and engagement
- We promote, recognise and reward excellent service delivery to all our stakeholders
- We provide a supportive and affirming environment that enables students and staff to reach their full potential
- We adopt innovative approaches to promote excellence in our institutional policies, structures, processes and systems

iii. Ubuntu

- We are a people-centred university
- We respect the dignity of others
- We recognise our mutual interdependence
- We promote compassionate and responsible citizenship

iv. Integrity

- We act with integrity and accept responsibility for our actions
- We behave in an ethical and professional manner
- We conduct our activities in an accountable and transparent manner
- We ensure the integrity of our information, systems and processes

v. Respect for the natural environment

- We care about the environment and recognise our responsibility to conserve, protect and properly manage natural resources for ourselves and future generations
- We promote the integration of sustainability principles into our academic practices, institutional operations and design of physical infrastructure
- We encourage mutually beneficial and sustainable approaches to community service and engagement
- We inspire students and staff to embrace environmentally friendly practices

vi. Taking responsibility

- We acknowledge our personal responsibility for ethical behaviour towards others
- We assume responsibility for the achievement of personal and institutional goals
- We accept responsibility for our actions and the consequences thereof
- We provide an environment that encourages students and staff to take responsibility for their academic and professional endeavours

EDUCATIONAL PURPOSE AND PHILOSOPHY

- We provide transformational leadership in the service of society through our teaching and learning, research and engagement activities.
 - To achieve this we are committed to developing the human potential of our staff and students in the full spectrum of its cognitive, economic, social, cultural, aesthetic and personal dimensions in the pursuit of democratic citizenship.
- We adopt a humanising pedagogical approach that respects and acknowledges diverse knowledge traditions and engages them in critical dialogue in order to nurture a participative approach to problem-posing and -solving, and the ability to contribute to a multi-cultural society.
- We inspire our stakeholders to be passionate about and respectful of an ecologically diverse and sustainable natural environment.
- We will be known for our people-centred, caring, values-driven organisational culture that will allow all members of the university community to contribute optimally to its life.

CONGRATULATORY MESSAGE FROM THE ALUMNI ASSOCIATION

Congratulations on your achievement! You are now an alumnus of NMMU. We would like to take this opportunity to introduce you to the NMMU Alumni Association.

Once you have obtained your NMMU certificate, diploma or degree you become an alumnus of the university and a member of the NMMU Alumni Association. The Association is recognised by the NMMU Council as a structure of the University. The Association supports and enhances the realisation of the University's vision and mission through maintaining and expanding positive relationships with its members.

The University can be supported in a variety of ways including sharing news, expertise, skills, networks and contributions in cash and kind. Cash donations to the Alumni Fund are used to fund bursaries, projects and the NMMU Capital and Endowment Campaign. Every contribution makes a difference. Donations can be made online as well.

Join our existing alumni chapters nationally and internationally or help establish new ones to maintain and build our networks. We encourage you to remain active NMMU ambassadors.

The role of the Alumni Relations Office

The Alumni Relations Office is responsible for the day-to-day management and running of the Alumni Association, the University Shop and all matters related to alumni relationship building.

We kindly request all alumni to ensure that we have your latest contact details to invite you to chapter socials and networking events as well as provide you with information regarding alumni and NMMU achievements. You are also requested to send us news regarding your or fellow alumni achievements and interesting experiences for publication in our newsletters and on the website.

Please visit our website for more information <http://alumni.nmmu.ac.za> or e-mail us at alumni@nmmu.ac.za or join our Facebook page **NMMU Alumni**. Other contact details include tel. +27 41 504 3935 and fax +27 41 504 1417. You are also most welcome to visit the Alumni Relations Centre on the North Campus in Port Elizabeth.

Remember to buy your memorabilia from the University Shop during graduation.

We look forward to hearing from you. Stay connected to your *alma mater!*

NATIONAL ANTHEM

**Nkosi Sikelel'i-Afrika,
Maluphakanyisw'uphondo lwayo,
Yizwa imithandazo yethu,
Nkosi Sikelela, thina lusapho lwayo.**

**Morena boloka setjhaba sa heso,
O fedise dintwa le matshwenyeho.
O se boloke, O se boloke setjhaba sa heso,
Setjhaba sa South Africa.**

South Africa.

**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.**