PROGRAMME FOR THE SEVENTH CEREMONY
THE FACULTIES OF THEOLOGY AND ENGINEERING

To help ensure that the proceedings run their course without disruption, will all those present kindly keep their cell phones switched off, and refrain from leaving the hall, while the ceremony is in progress.

1. Entrance of academic procession into the hall. You are requested to stand while it enters, and then to remain standing for the singing of the National Anthem.
2. Singing of the National Anthem (see inside back cover). Thereafter, please be seated.
3. Congregation formally constituted by the Vice-Chancellor.
4. Welcome by the Vice-Chancellor and Dr N Cezula.
5. Presentation of candidates receiving qualifications by the deans of the respective faculties and conferment of qualifications by the Vice-Chancellor.
6. Introduction of candidates for Chancellor’s Awards and presentation of awards by the Vice-Chancellor.
7. Closing by the Vice-Chancellor.
8. The academic procession leaves the stage.

Those present are requested to remain standing until the entire academic procession has left the hall.
## Fakulteit Teologie
### Faculty of Theology
### IFakhalthi yezeNkolo

**PhD**

**CHO, Anna (Systematic Theology)**

Christian ethical implications of the presence of the kingdom as God’s performative action in the light of Speech Act Theory

The candidate’s research engages some of the ethical implications related to the theological concept of the presence of the kingdom as God's performative action in history by reconsidering the role of the linguistic character of the Biblical text from the perspective of Speech Act Theory. In this regard, Christian ethics is not to be viewed simply as relating to the norms of human behaviour, or moral principles that are extrapolated from the Biblical text. Rather, the performance of ethics can be considered from the perspective of God’s action and intent in history (illocutionary force) in relation to the Biblical text.

**Supervisor:** Dr DA Forster

### CONRADIE, Jacobus Petrus (Nuwe Testament)

Die interpretasie van die vervullingsitate in Matteus aan die hand van ironie as pragmatiese taalkomponent

Die studie het die voorkoms van narratiewe, dramatiese en Sokratiese ironie in twaalf vervullingsitate van die Matteus-evangelie vanuit die perspektief van die pragmatiek bestudeer. Ironie kom daarin voor wanneer die veronderstelde leser daarvan oor meer inligting as die karaktere daarin beskik. Die voorkoms daarvan in Matteus se vervullingsitate is belangryk omdat dit in meerbare besleists as die letterlike daarin na vore bring. Die studie toon aan hoe ironie in die vervullingsitate in Matteus se geboorteverhaal, in aansluiting by dié daarstelling, funksioneer as ‘n indirekte diskursiewe spreuklike wat die karaktere en taak van die Messias ingrypend herdefinieer vir sy leiers.

**Promotor:** Prof MJ Nel

### KASSA, Friday Sule (Old Testament)

Hospitality and its ironic inversion in Genesis 18 and 19: a theological-ethical study

This dissertation breaks new exegetical ground by identifying irony as a rhetorical technique to interpret the references to hospitality in Genesis 18 and 19. This ironic reading critiques the traditional link between hospitality and kinship that exists in the Old Testament and in many African cultures. It challenges the reader to be held accountable towards the vulnerable “other” (going beyond kinship) and to shoulder the responsibility to establish justice for all strangers, migrants and so-called aliens in the midst of both communities who often struggle to rid themselves of exclusive kinship concerns.

**Supervisor:** Prof HL Bosman

### KIM, Pilkyun (Missiology)

Christian discipleship as power encounter with South Korean indigenous leaders: an interculture theological study

Intergroup relations and power dynamics between indigenous Korean leaders and Christians have influenced cultural and religious practices and religious transformations positively and negatively in South Korea. The dissertation explores how the dynamics have shaped an ethos and practice of mutual rejection, but also mutual acceptance, learning and critique of Christians and indigenous leaders. The intercultural theological framework develops “life-together” and relationality (kenosis) in indigenous religion and self-emptying (kenosis) in Christianity to integrate religious and social dimensions of the ethos. It reconstructs and applies “power encounter” to assess a Christian practice of transformational discipleship which includes particularities of both indigenous and Christian healing and rituals.

**Promotor:** Prof DX Simon

### OOSTHUIZEN, Johannes Jacobus (Practical Theology)

Restoring the circle of courage in the lives of youth at risk through mentoring

This study addresses the lack of effective intervention programmes for youth at risk, especially in South Africa. The objective was to evaluate the implementation of an intervention programme that utilized the circle of courage theory as basis. According to the circle of courage theory, the relationship-building is key to facilitate the healthy development of young people. Such relationships are often lacking in the lives of youth at risk and therefore the candidate argues that mentoring should be a core element in intervention programmes. Several youth ministry models were evaluated and the incarnational model was suggested as more suitable to minister to youth at risk.

**Promotor:** Prof A Cloete
PAULO, Bonifacio (Old Testament)
The centralisation of the worship of Yahweh according to the Jewish and Samaritan Pentateuch: a textual and theological study

The candidate examined the different views on the centralisation of Yahweh worship in Deuteronomy 12 as reflected in the Jewish and Samaritan Pentateuch traditions. In contrast to the Jewish Pentateuch’s claim of Jerusalem as central place of worship and the priority of the Davidic line of election, the Samaritan Pentateuch claims this honour for the sanctuary on Mount Gerizim near Shechem, and argues in favour of the Mosaic tradition. The candidate investigated the historical, literary and theological motivations behind these different wanderings, and concluded how these differences can be accommodated in Bible translation projects.

Supervisor: Prof LC Jonker
External Co-supervisor: Prof GR Kotze (External)

ROJAS YAURI, Benjamin (New Testament)
Cosmogonic presuppositions in Hebrews and its first-century philosophical context

This multi-methodological research comprising historical-grammatical, socio-historical and context analysis considers the relationship between Hebrews’ cosmogonic presuppositions and its first-century philosophical context. The cosmogonic presuppositions present in first-century philosophy focused on four main aspects: literary components, Creator, procedure of creating, and creation itself. The main finding is that Hebrews embraces a new cosmogonic perspective for its time, built on coherent presuppositions developed mostly in its reading of Jewish literature, among which the Scriptures of Israel, and particularly Genesis 1-3, takes a predominant place. This new perspective stands apart from first-century cosmogonic presuppositions which were a diverse mixture of ideas.

Supervisor: Prof J Punt.

VAN TONDER, Helené (Ecclesiology)
Recollection and confession: the Heidelberg Catechism as a site of memory in the Dutch Reformed Church, 1862-1963

This dissertation provides an in-depth analysis of how the Heidelberg Catechism – an influential 16th-century Reformed confessional document – functioned as a site of memory in the Dutch Reformed Church from 1862 to 1963. By drawing in part on insights from memory studies, the inquiry highlights the dynamic entanglement of recollection and confession in processes of identity construction. With reference to various pivotal episodes in which the Heidelberg Catechism was remembered (and forgotten), the study examines and explicates the characteristics and effects of the entanglement of recollection and confession on the identity of the Dutch Reformed Church during the stated period.

Supervisor: Prof RR Vosloo
External Supervisor: Prof G Harrick
External Co-supervisor: Prof WL van der Merwe

WIEGAND, Heinrich Johann (Praktiese Teologie)
Evangelisasie deur sport- en rekreasiebediening: in praktiese-teologiese onderzoek

Die uitvoering van die missie ekklesia (Matt 28:16–20), wat Christus aan die kerk toevertrou het, word weens die kerk se gebrek aan evangelisasie aan bande geë. Weens dié rede behoeft die aanwending van sport- en rekreasie-aktiviteite as evangelisasie-metodes onderzoek te word. Die Suid-Afrikaanse sport- en rekreasiebediening, Sport vir Christus Akte Suid-Afrika (SCAS), is die onderwerp van hierdie studie. Die studie stel ’n praktise-teologiese onderzoek identief die studie vier benaderings tot sport- en rekreasiebediening, te wende die sleutel-, medium-, aflos- en platform-benaderings, wat tot die bevordering van evangelisasie kan hydra.

Promotor: Prof IA Nell
Medepromotor: Prof M Nel

Fakulteit Ingenieurswese
Faculty of Engineering
Ifakhalithi yezobuNjineli

PhD
AKURU, Udochukwu Bola (Electrical Engineering)
Design optimisation and performance evaluation of flux switching machines for geared medium-speed wind generator drives

The study proposed a novel approach for the multi-objective design optimisation of geared medium-speed flux switching wind generators, with the major emphasis on rare-earth-free designs for industrial-scale applications. Based on finite element analyses, whereby torque density, torque ripple and power factor were prioritised, multiple design options are provided for the designer to make informed selections. Generally, as the power level shifts from 10 kW to 3 MW, improvements in terms of increased torque density and reduced torque ripple were obtained for the machines considered in the study. A 10 kW prototype was manufactured and tested, thereby confirming the finite element calculations.

Supervisor: Prof PJ Kapfer

APMIHAYA, Lilian Linusie (Electrical Engineering)
Design and optimisation of direct-driven PM variable-flux synchronous generators for directly grid-connected slip-synchronous wind turbines

In this study a novel variable-flux permanent magnet synchronous generator topology for direct-drive wind turbine applications was developed. This generator topology allows for variable-flux capability as well as reduced active mass. A unique optimisation procedure was developed to design the permanent magnet to produce the main flux and the rotor field coils to produce the necessary flux for grid compliance. This design topology is a first to be demonstrated in a direct-connected grid-compliant wind generator system. The study showed through analysis and tests that the deep-buried permanent magnet design with rotor field coils is a viable hybrid solution for grid-connected generators.

Supervisor: Prof PJJ Kapfer

BEYERS, Wilhelm André (Mechanical Engineering)
Predicting structural behaviour of pressure vessels using large-scale multi-modeling applied to plug type heat exchanger header boxes

Plug type header boxes are predominantly designed according to the ASME’s Boiler and Pressure Vessel Code, which is widely known to be
conservative. In this study a less conservative analysis tool was developed, in the form of a meta-model. The tool provides designers with real-time predictions of the stresses in a header box, with an accuracy similar to a detailed finite element analysis. Designers can use this model to search for optimal designs and identify what the structural effects are when individual header box dimensions are changed in order to promote a better understanding of these structures.

Supervisor: Prof G Venter

HOWARD, Edan (Electrical Engineering)

Design optimisation of reluctance-synchronous machines: a motor and generator study

The study focused on the design optimisation of reluctance-synchronous electrical machines for motor and generator drive applications. The study proposes techniques that can be implemented in the design process to minimise or remove the inherent weaknesses of the machine. Some of the machines designed using these techniques were manufactured and tested, to validate the proposed design methodology. The study also focussed on the design of reluctance-synchronous machines in the high power range for wind generator applications. It was found that this type of machine can be used in high power applications with competitive efficiency and power factor performance.

Supervisor: Prof MJ Kemp

KENNION, Druol (Industrial Engineering)

Towards an anti-fragile South African SME

Small and medium enterprises contribute substantially to the South African economy. However, they are exposed to highly volatile environments, which threaten their survival. Systems respond to stressors in one of three ways: by being fragile, resilient/robust or, as an alternative, anti-fragile. Anti-fragility is the response through which small and medium enterprises can prosper in times of volatility. The study sees an enterprise as a complex adaptive system, which is comprised of subsystems and components that align to fulfil the enterprise’s purpose. A framework is proposed, which guides the enterprise on how to organise itself for improved anti-fragility.

Supervisor: Prof CSL Schutte
Co-supervisor: Mr KH von Leipzig

KRAUSE, Willie (Industrial Engineering)

An approach to enable and advance open innovation for small and medium-sized enterprises

Available research shows that, for small and medium-sized enterprises (SMEs), there are benefits to using open innovation. However, current open innovation practices tend to be ad hoc in nature and are usually not managed as a formalised approach. This study developed an approach that SMEs can use for the implementation, execution and improvement of open innovation within their organisations. The approach consists of an open-innovation life cycle framework, as well as design propositions with detailed descriptions filling out the framework and a toolkit of templates that help users better interact with the content of the approach.

Supervisor: Prof CSL Schutte

LOOTS, Erik (Industrial Engineering)

Employee incentives engineering: towards a decision support system

Recognising that the performance of organisations is adversely affected by employees who are not appropriately incentivised, and that existing research is extensive yet difficult to use, this research contemplated how organisations could use the existing literature to enhance organisational performance. This was addressed through the development of a decision support system (DSS) that can be used to improve an organisation's employee incentive practices. The DSS was built around the thirteen Primary Incentive Plan Design Considerations (PICs). The PICs are a unique amalgamation from influential research papers that deal with incentives and motivation from various disciplines.

Supervisor: Prof CSL Schutte

MOLTENO, Matthew Robert (Mechanical Engineering)

Measuring fracture properties using digital image and volume correlation: deconstructing the J-integral for mixed mode parameters

Materials’ resistance to brittle fracture is widely used to estimate safe operating parameters for mechanical structures. Non-contact measurements using digital image correlation allow the extraction of these parameters from structures in situ, accounting for their complex geometry and loading, which is not possible with standard fracture toughness tests. The developed framework extracts the fracture toughness from 3D image reconstructions of the surface, and X-ray image reconstructions in the volume, in the separate opening, sliding and shear fracture modes required for structural integrity evaluations. The work aims to supplement standard testing procedures, and accelerate the use of full-field optical measurements in South African industries.

Supervisor: Dr TH Becker

PRETORIUS, Gerhardus Dirk Peterus (Industrial Engineering)

An interactive supply framework to improve the successful outcome of the acquisition of a complex weapon system

This study investigated the contribution of various enabling human factors to the success of a project to order a complex weapon system, during the acquisition phase, and when interacting with a customer. An interactive supply framework was developed and successfully applied in a case study that investigated six different projects. These projects supplied military vehicles to international armed forces during a ten-year period in three countries. The insights gained from the study will assist practitioners involved in similar projects to improve client interactions and nurture proactive relationship strategies. The success rate of a project will thus be increased or accelerated.

Supervisor: Prof ND du Preez
Co-supervisor: Dr-L Louw

SMPUEHI, Sabu Sitwala Joseph (Civil Engineering)

Project management strategy: an integrated model of managing large projects

This dissertation investigated how time and cost overruns develop in large infrastructure projects. Previously, overruns were thought to be caused by independent causes in the project environment. In this research, it was established that the root cause originates from the external and extended to the organisation and project environments.
implying that a solution should include the management of the external and organisation environments. The novel solution is to establish a project implementation organisation, and a project risk management agency, to increase the project management role in the client organisation, and to improve the concept formulation process in the project environment.

Supervisor: Prof Ja Wun

SOGDRAGER, Albert Johan (Electrical Engineering)

Design of line-start permanent magnet synchronous machines using the Taguchi method

This study focused on the development of a comprehensive design optimisation framework for line-start permanent magnet synchronous machines (LS PMSM), which could effectively consider both steady-state and transient synchronisation performance objectives. The use of the Taguchi method for robust design was adopted and improvements were implemented to enable its use in an iterative optimisation process. An analytical synchronisation criterion was formulated and used as a quantifiable performance objective in the design optimisation. It has been shown that the proposed framework can effectively realise a balanced and robust design for the most commonly used LS PMSM rotor topologies.

Supervisor: Prof R.J. Wang
External Co-supervisor: Dr A.J. Grobler

TERBLANCHE, Stephanus Eeza (Industrial Engineering)

Resource-constrained project scheduling models and algorithms applied to underground mining

In this dissertation, the challenges of underground mine planning were addressed by employing resource-constrained project scheduling models and algorithms. Modifications to an existing resource-flow formulation were proposed in order to accommodate mining-specific modelling requirements. A Benders decomposition approach was followed for the purpose of improving the computation of feasible solutions when considering large problem instances. Separation sub-routines and a primal heuristic were proposed to facilitate the decomposition within a branch-and-cut framework. Computational results, based on randomly generated data and real data from a South African underground mine, demonstrated the superior scalability of the newly proposed algorithmic approaches.

Supervisor: Prof JH van Vuuren

VAN DER MEWE, Michael David (Industrial Engineering)

The base of the pyramid: a growth framework for SMME action

The base of the pyramid (BOP) is a term that denotes the poorest socio-economic segment of a population. Profitable small and micro-sized enterprise (SMME) action at the BOP is widely accepted as an ideal route to inclusive development since this view the BOP as customers, co-creators, clients and employees. Further, an association has been shown between high enterprise growth and specific enterprise attributes, behaviours, strategies and decisions, i.e. growth factors. A framework was designed by determining, amending and amalgamating these factors within the BOP context to promote enterprise action, which results in improved growth and sustainable poverty alleviation.

Supervisor: Prof CSL Schutte
Co-supervisors: Mr KH van Lep ing and Prof SS Grobbelaar

WEYERS, Morne Alfred (Industrial Engineering)

An investigation into the application of the supply chain operations reference model for the service supply chain for standardised back office services

The service industry has grown tremendously, drawing more attention to services and optimal service management practices. Despite its importance, limited research has been conducted on service supply chain management (SSCM). Previous research suggests that this concept may not apply easily to services. This study makes a novel contribution by developing a new service classification framework, as well as showing that a supply chain model (SCM) can be successfully adapted and applied from manufacturing by using a structured approach. This will enable practitioners to gain access to mature SCMs from manufacturing and better apply them to services, specifically standardised back-office services.

Supervisor: Dr L Louw

ZERANKA, Stephanus (Civil Engineering)

Steel fibre-reinforced concrete: multiscale characterization towards numerical modeling

Steel fibre-reinforced concrete (SFRC) applications have increased in quantity and variety. Methods for material characterisation constitutive modelling and design must be improved in order to facilitate this demand. Limited literature is available on the direct shear response of SFRC and even fewer investigations attempt to link the transverse pull-out behaviour of individual fibres to the composite response. This dissertation designs, fabricates and executes experimental tests to characterise the Mode I and Mode II fracture at the micro- and meso-scale of observation. A material model was developed and validated numerically. An empirical model reconciled the fibre component with the Mode II meso-scale response.

Supervisor: Prof G.P.A. van Zijl

DEng

DAVIDSON, David Bruce (Electronic Engineering)

Contributions to engineering electromagnetics

This dissertation presents an overview of the publications of the candidate and his research group on engineering electromagnetics, in particular computational electromagnetics (CEM). This included pioneering work on high performance computing in CEM using transputers; work on the theory and application of finite difference and finite element methods, focusing especially on higher-order solutions, error estimation in numerical solutions, applications to radio astronomy instrumentation design and development; and recent work on near-field antenna metrology and wave propagation. The candidate’s research significantly advanced the field of engineering electromagnetics and has significantly impacted on local and international industry via the contributions to new simulation software.

Supervisor: Prof P Meyer
ANDER KWALIFIKASIES
OTHER QUALIFICATIONS

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MDARANE, Leboeuf Philea (Elektries en Elektronies)
MEIK, Ruw Katheriae (Chemies)
MERING, Zander (Meganies)
MEYER, Jacobus Elias (Elektries en Elektronies)
MEYER, Markus Wilmie (Siviel)
MEYER, Tamara Elizabeth Catherine (Meganies)
MEYER, Thomas Oliver (Meganies)
MILES, Salinda (Bedryfsingenieurswese)
MOODLEY, Theesheen (Chemies)
MOOLMAN, Pieter Lafras (Meganies)
MORRISON, Storm Diane (Chemies)
MORTON, Daniel Deneburgh (Bedryfsingenieurswese)
MOUTON, Christiaan Jacobus (Meganies)
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MULLER, Johannes David Jordan (Siviel)
MULLER, Michiel (Siviel)
MULLER, Robert (Bedryfsingenieurswese)
MULLIN, Matthew Tilbury (Elektries en Elektronies)
MURUGAN, Kalyvanan (Meganies)
MWAMB, Herve Makenza (Megatronies)
MWAMPE, Humphrey Vincent (Meganies)
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NAIDOO, Omashan (Chemies)
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NAUDE, Ashley Kandel (Elektries en Elektronies)
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NOTING, Christian Wolffang (Meganies)
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CAGENG, Thobokholo (Siviel)
OLIVER, Jacques (Chemies)
OSTHUIZEN, George le Roux Eastland (Siviel)
OSTHUIZEN, Helgard le Grand (Elektries en Elektronies)
OPERMAN, Michael (Bedryfsingenieurswese)
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PALMER, Lauren (Elektries en Elektronies)
PASTELUDES, Storme George (Elektries en Elektronies)
PAULS, Gareth Craig (Chemies)
PEACH, Dan Samuel (Meganies)
PEARCE, David Anthony (Meganies)
PICKHAM, Jason Jack (Siviel)
PERAY, Tyler Saul (Chemies)
PESCH, Heno (Chemies)
PETERMANN, Hakon (Elektries en Elektronies)
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KANSELIERSTOEKENNINGS / CHANCELLOR’S AWARDS / AMABHASO KATSHANSILA

Departement Elektriese en Elektroniese Ingenieurswese
Department of Electrical and Electronic Engineering
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PROF MJ KAMPER

P rof Maarten Kamper, voorstander van die Departement Elektriese en Elektroniese Ingenieurswese, het oor dekades naam gemaak as deskundige van formaat op die gebied van elektriese masjiene en motore. Sy navorsing oor releksiegedragende ontwerp en die beheer van reuktei-, permanente-magneet- en induksie-elektriese motore geniet aansienlike nasionale en internasionale erkenning, soos sy B-rating van die Nasionale Navorsingstigting ook toon. Ook op volhoubareheidsgebied lewer hy ’n belangrike bydrae deur sy kundigheid vir hernuurbare-energietoepassings in te span. Met ’n impak veel wyer as die Universiteit Stellenbosch, is Kamper ook ‘n hoog aangeskrewe medewerker van die bedryf, waaronder die prosese- en nywerheidsoutomatiseringsgigant ABB in Swede, associate editor van IEEE Transactions on Industry Applications, en reguulêre artikelskrywer vir die voorste internasionale vaktydskrifte.

PROF AEJ MOUTON

P rofessor Elna Mouton is ’n ware baanbreker: Sy is die eerste vrouedosent in die Fakulteit Teologie, en die eerste en, tot dusver, enigste vrouedekaan van ’n teologiefakulteit in Suid-Afrika. Sy onderskei haar ook as uitsonderlike dosent en ontvang deurgaans uitmuntende evaluerings van studente wat geraak word deur haar passie, haar vakkundigheid en haar vermoe om hulle te laat floreer. Boonop is Mouton se werk as mederedakteur en medewerker in 2016 beloon met die Andrew Murray-Desmond Tutu-prys vir Liveng With Dignity, ’n innoverende projek wat geslaggeelyheid en waardigheid in Afrika op bekwaame wyse uit die oogpunt van meer as 20 teoloë van oor die hele wêreld onderzoek. Haar loopbaan getuig van ’n onverbricker verbintenis tot onderrig en die bevordering van gelykheid en waardigheid vir almal.