

STELLENBOSCH UNIVERSITY

RESEARCH REPORT 2004

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FOREWORD

The 2004 Research Report provides a comprehensive record of the University's research outputs. In addition to this overall survey of research at the institution, perspectives are provided on the performance of individual faculties and departments. Further statistical perspectives on research output and the nature of research activities are presented in other publications of the Division of Research Development, i.e. *Research @ Stellenbosch*; and *Perspectives of Stellenbosch University*.

As in the past, a variety of persons and organizations contributed to the University's research programme. Stellenbosch University wishes to express particular recognition to the statutory research councils and commissions, government departments, private enterprises, foundations and individuals for their continued support of our research.

As far as research funding is concerned, researchers at South African universities are increasingly dependent upon new sources for research funding. This includes national and international opportunities alike. Stellenbosch University therefore attaches great value to regional cooperation and substantive scientific agreements with other universities local and abroad, and to bilateral research and development agreements between South Africa and other countries.

Apart from the active support of research by the University's management, a variety of internal support services provide assistance to researchers. These include the library and information services, capacity building workshops, information technology, infrastructure, the maintenance of laboratories and equipment, central analytical services, and support from the administrative and financial divisions, without which it would be impossible to conduct research of this calibre.

We acknowledge with appreciation the dedication and excellent contributions made by Stellenbosch University staff members to the institution's research output. Thanks are due to the staff of the academic departments for the input of data into the system, and to the personnel of the Division of Research Development involved in preparation of the Report. Special recognition is due to Daléne Pieterse, Lindie le Roux and personnel of SunMedia for the compilation and lay-out of the Report.

Prof Piet Steyn
Acting Senior Director: Research

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FACULTY OF AGRICULTURE AND FORESTRY SCIENCE

AGRICULTURAL ECONOMICS

Journal articles

1. ADRIAEN D, KLEYNHANS TE, TOLLENS E. A comparison between South African agricultural exports to the European Union and those other selected southern hemisphere countries. *Agrekon* 2004; **43**(2): 184-201.
2. MKHABELA TS. Estimates of the increase in milk production due to the introduction of maize silage to a dairy farm in KwaZulu-Natal: A time series approach. *Agrekon* 2004; **43**(1): 484-491.
3. MKHABELA TS. Substitution of fertilizer with poultry manure: Is this economically viable? *Agrekon* 2004; **43**(3): 347-356.
4. MOSOMA KPW. Agricultural competitiveness and supply chain integration: South Africa, Argentina and Australia. *Agrekon* 2004; **43**(1): 132-144.
5. VAN DIJK T, KLEYNHANS TE. An evaluation of the environmental care orientation of deciduous fruit producers in the Western Cape. *Agrekon* 2004; **43**(3): 317-330.
6. VINK N. Patience running out. *World Today* 2004; **60**: 21-23.
7. VINK N. The influence of policy on the roles of agriculture in Southern Africa. *Development Southern Africa* 2004; **21**(1): 155-177.
8. VINK N, KIRSTEN JF, WOERMANN C. South Africa's Consumer Price Index for Food (CPIF): A comparative historical view. *Agrekon* 2004; **43**(2): 217-227.

Research reports

1. ACKRON J, VINK N. *Property rating of agricultural land in the Western Cape: Towards a guideline framework*. 2004: 33 pp.
2. KARAAN ASM. *Western Cape microeconomic strategy project: Agricultural, fishing and aquaculture sector studies*. 2004: 120 pp.
3. KLEYNHANS TE. *Proposed Cederberg mega-reserve economic pre-feasibility study: Findings and recommendations*. 2004: 190 pp.
4. KLEYNHANS TE. *Proposed Gouritz mega-reserve: Economic pre-feasibility study: Findings and recommendations*. 2004: 200 pp.

Master's completed

1. FUNDIRA T. *Analysis of the South African fruit supply chain*. MAgriAdmin, 2004. 82 pp. Supervisor: Dr ASM Karaan.
2. GERBER WH. *The competitiveness of the South African abalone industry*. MAgriAdmin, 2004. 137 pp. Supervisor: Dr ASM Karaan.
3. GREWLICH J. *International trade in wine and geographical indications: Common interests between the EU and South Africa*. MAgriAdmin, 2004. 112 pp. Promoter: Prof NVink.
4. KOOY ZW. *An institutional economic analysis of empowerment in land reform share schemes*. MComm, 2004. 190 pp. Promoter: Dr ASM Karaan.
5. MOSOMA KPW. *Internasionale vergelyking van landbou-uitvoere: Suid-Afrika en die Cairnsgroep*. MScAgric, 2004. 124 pp. Supervisor: Prof N Vink.

AGRONOMY

Journal articles

1. BARNARD RJ, COMBRINK NJJ. Potato mini tuber production affected by a short-term calcium deficiency. *South African Journal of Plant and Soil* 2004; **21**(3): 200-202.

2 FACULTY OF AGRICULTURE AND FORESTRY SCIENCE

2. BARNARD RJ, COMBRINK NJJ. Reaction of potatoes to calcium and phosphate levels as affected by wind. *South African Journal of Plant and Soil* 2004; **21**(3): 196-199.
3. BECKAARDT CR, PIETERSE PJ, COETZEE JH, AGENBAG GA. The breaking of seed dormancy of guayule (*Parthenium argentatum Gray.*) by treatment with gibberellic acid and smoke water solution. *South African Journal of Plant and Soil* 2004; **21**(2): 114-116.
4. CHIULELE RM, AGENBAG GA. Plant water relations and proline accumulation on two cowpea (*Vigna unguiculata (L.) Walp.*) cultivars as a response to water stress. *South African Journal of Plant and Soil* 2004; **21**(2): 109-113.
5. MAALI SH, AGENBAG GA. Effect of soil tillage, crop rotation and nitrogen application rates on plant-N content of spring wheat (*Triticum aestivum L.*) in the Swartland wheat-producing area of the Republic of South Africa. *South African Journal of Plant and Soil* 2004; **21**(4): 255-260.
6. MANOTO MM, FERREIRA MI, AGENBAG GA. The effect of temperature on the germination of six selected weed species. *South African Journal of Plant and Soil* 2004; **21**(4): 214-219.
7. SMIT JN, COMBRINK NJJ. The effect of boron levels in nutrient solutions on fruit production and quality of greenhouse tomatoes. *South African Journal of Plant and Soil* 2004; **21**(3): 188-191.
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1. LANGENHOVEN P. *Yield and quality response of hydroponically grown tomatoes (Lycopersicon esculentum Mill.) to nitrogen source and growth medium*. PhD (Agric), 2004. 211 pp. Promoter: Prof GA Agenbag.
2. OWOEYE LG. *Evaluation of selected legumes for sustainable weed ecology soil fertility livestock management interactions in crop-livestock systems of the moist savannah of Nigeria*. PhD (Agric), 2004. 235 pp. Promoter: Dr PJ Pieterse.

Master's completed

1. DE VILLIERS R. *The influence of chemical seed treatment on germination, seedling survival and yield of canola*. MScAgric, 2004. 78 pp. Supervisor: Prof GA Agenbag.

ANIMAL SCIENCES

Journal articles

1. BRAND TS, BRANDT DA, CRUYWAGEN CW. Chemical composition, true metabolisable energy content and amino acid availability of grain legumes for poultry. *South African Journal of Animal Science* 2004; **34**: 116-122.
2. CLOETE JJE, HOFFMAN LC, CLOETE SWP, FOURIE JE. A comparison between the body composition, carcass characteristics and retail cuts of South African Mutton Merino and Dormer sheep. *South African Journal of Animal Science* 2004; **34**: 44-51.
3. CLOETE SWP, BUNTER KL, BRAND Z, LAMBRECHTS H. (Co)variances for reproduction, egg weight and chick weight in ostriches. *South African Journal of Animal Science* 2004; **34**(2): 17-19.
4. CLOETE SWP, CLOETE JJE, HERSELMAN MJ, HOFFMAN LC. Relative performance and efficiency of five Merino and Merino-tup dam lines in a terminal crossbreeding system with Dormer or Suffolk sires. *South African Journal of Animal Science* 2004; **34**: 135-143.
5. CLOETE SWP, CLOETE JJE, HOFFMAN LC, FOURIE JE. Slaughter traits of Merino sheep divergently selected for multiple rearing ability. *South African Journal of Animal Science* 2004; **34**: 189-196.
6. CLOETE SWP, VAN SCHALKWYK SJ, HOFFMAN LC, MEYER A. Effects of age on leather and skin traits of slaughter ostriches. *South African Journal of Animal Science* 2004; **34**: 80-86.
7. CRAFTFORD K, HOFFMAN LC, MULLER M, SCHUTTE DE W. The retail of South African game meat: Current trade and marketing trends. *South African Journal of Wildlife Research* 2004; **34**(2): 123-134.
8. CRUYWAGEN CW, BUNGE G. The effect of supplemental biotin in dairy cow diets on fibre fermentation patterns as measured by *in vitro* gas production. *South African Journal of Animal Science* 2004; **34**(6): 68-70.
9. CRUYWAGEN CW, GOOSEN L. Effect of an exogenous fibrolytic enzyme on growth rate, feed intake and feed conversion ratio in growing lambs. *South African Journal of Animal Science* 2004; **34**(6): 71-73.
10. DE WET L, VRANKEN E, CHEDAD A, AERTS J-M, BERCKMANS D. Computer-assisted image analysis to quantify daily growth rates of broiler chickens. *British Poultry Science* 2003; **44**(4): 524-532.

11. DEMEKE S, NESER FWC, SCHOEMAN SJ. Early growth performance of *Bos taurus* x *Bos indicus* cattle crosses in Ethiopia: Evaluation of different crossbreeding models. *Journal of Animal Breeding and Genetics - Zeitschrift für Tierzucht und Zuchtungsbiologie* 2003; **120**: 39-50.
12. DICKS LMT, MELLETT FD, HOFFMAN LC. Use of bacteriocin-producing starter cultures of *Lactobacillus plantarum* and *Lactobacillus curvatus* in production of ostrich meat salami. *Meat Science* 2004; **66**: 703-708.
13. DU PLESSIS I, HOFFMAN LC. Effect of chronological age of beef steers of different maturity types on their growth and carcass characteristics when finished on natural pastures in the arid sub-tropics of South Africa. *South African Journal of Animal Science* 2004; **34**: 1-12.
14. FERREIRA AV, THORNTON JD. Feed intake and growth of Saanen kids weaned at 42 and 70 days of age. *South African Journal of Animal Science* 2004; **34**(1): 49-51.
15. FERREIRA AV, THORNTON JD. The effect of dietary protein degradability on production characteristics of lactating Saanen does. *South African Journal of Animal Science* 2004; **34**(1): 52-54.
16. FERREIRA AV. Essential amino acid requirements of meat and milk goats. *South African Journal of Animal Science* 2004; **34**(1): 46-48.
17. FERREIRA AV. Nutritive value of red vine husks and pips for sheep. *South African Journal of Animal Science* 2004; **34**(2): 23-25.
18. HOFFMAN LC, FERREIRA AV. Chemical composition of two muscles of the common duiker (*Sylvicapra grimmia*). *Journal of the Science of Food and Agriculture* 2004; **84**(12): 1541-1544.
19. HOFFMAN LC, NKHABUTLANE P, SCHUTTE DE W, VOSLOO C. Factors affecting the purchasing of rabbit meat: A study of ethnic groups in the Western Cape. *Journal of Family Ecology and Consumer Sciences* (formerly *Journal of Dietetics and Home Economics*) 2004; **32**: 26-35.
20. HOFFMAN LC. Post-mortem changes in the physical meat quality characteristics of refrigerated impala *m. Longissimus dorsi*. *South African Journal of Animal Science* 2004; **34**: 26-28.
21. MALECKI IA, CLOETE SWP, GERTENBACH WD, MARTIN GB. Sperm storage and duration of fertility in female ostriches (*Struthio camelus*). *South African Journal of Animal Science* 2004; **34**: 158-165.
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23. NOLTE JVE, FERREIRA AV. Body, protein and essential amino acid composition of male Merino and Döhne Merino lambs. *South African Journal of Animal Science* 2004; **34**(6): 80-82.
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27. RUST T, VAN DER WESTHUIZEN J, SCHOEMAN SJ, VAN WYK JB. Variance component estimation for reproductive merit of beef cattle using linear and non-linear models. *South African Journal of Animal Science* 2004; **34**: 59-61.
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29. VAN DE VYVER WFJ, DAWSON KA, CASEY NH, TRICARICO JM. Effect of glycosylation on the stability of fungal xylanase exposed to proteases or rumen fluid in vitro. *Animal Feed Science and Technology* 2004; **116**: 259-269.
30. VAN DER WESTHUIZEN RR, VAN DER WESTHUIZEN J, SCHOEMAN SJ. Genetic variance components for residual feed intake and feed conversion ratio and their correlations with other production traits in beef bulls. *South African Journal of Animal Science* 2004; **34**(4): 257-264.
31. VAN ZYL L, FERREIRA AV. Physical and chemical carcass composition of springbok (*Antidorcas marsupialis*), blesbok (*Damaliscus melampus*). *Small Ruminant Research* 2004; **53**: 103-109.
32. WEIDEMAN H, SCHOEMAN SJ, JORDAAN GF. A genetic analysis of epistaxis as associated with EIPH in the South African thoroughbred. *South African Journal of Animal Science* 2004; **34**(4): 274-281.
33. WEIDEMAN H, SCHOEMAN SJ, JORDAAN GF. The inheritance of liability to epistaxis in the Southern African thoroughbred. *Journal of the South African Veterinary Association* 2004; **75**: 158-162.

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1. WEIDEMAN H. *A genetic analysis of the occurrence of pulmonary haemorrhage in racing thoroughbreds in Southern Africa*. PhD (Agric), 2004. 65 pp. Promoter: Prof SJ Schoeman.

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1. GOOSEN L. *The application of exogenous fibrolytic enzymes in ruminant nutrition*. MScAgric, 2004. 97 pp. Supervisor: Prof CW Cruywagen.
2. GRIFFITHS J. *The effect of extrusion of protein sources on ruminal degradability*. MScAgric, 2004. 80 pp. Supervisor: Prof CW Cruywagen.

ENTOMOLOGY AND NEMATOTOLOGY

Journal articles

1. DAANE KM, MALAKAR-KUENEN RD, WALTON VM. Temperature-dependent development of *Anagyrus pseudococci* (Hymenoptera: Encyrtidae) as a parasitoid of the vine mealybug, *Planococcus ficus* (Homoptera: Pseudococcidae). *Biological Control* 2004; **31**: 123-132.
2. ENGELBRECHT R, HOLZ G, PRINGLE KL. Occurrence of fruit-decaying fungi on adult male Mediterranean fruit flies (*Ceratitidis capitata*) captured in orchards and adjacent vineyards. *South African Journal of Enology and Viticulture* 2004; **25**(2): 48-53.
3. GEERTSEMA H. Micropyle and chorion structure of the eggs of some South African hepialoid moths (*Lepidoptera: Prototheoridae: Hepialidae*). *African Entomology* 2004; **12**(1): 147-153.
4. SAMWAYS MJ. Critical species of Odonata in southern Africa. *International Journal of Odonatology* 2004; **7**(2): 255-262.
5. SAMWAYS MJ. Monopodding in *Lestiniogomphus angustus* Martin (Anisoptera: Gomphidae). *Odonatologica* 2004; **33**: 443-444.
6. SAMWAYS MJ, TAYLOR S. Impacts of invasive alien plants on Red-Listed South African dragonflies (*Odonata*). *South African Journal of Science* 2004; **100**: 78-80.
7. TADELE T, PRINGLE KL. Mortality and maize leaf consumption of *Chilo partellus* (Lepidoptera: Pyralidae) larvae treated with *Beauveria bassiana* and *Metarhizium anisopliae*. *International Journal of Pest Management* 2004; **50**(1): 29-34.
8. VAN DIJK DE, GEERTSEMA H. A new genus of Permian Plecoptera (*Afroperla*) from KwaZulu-Natal, South Africa. *African Entomology* 2004; **12**(2): 268-270.
9. WALTON VM, DAANE KM, PRINGLE KL. Monitoring *Planococcus ficus* in South African vineyards with sex pheromone baited traps. *Crop Protection* 2004; **23**: 1089-1096.
10. WALTON VM, PRINGLE KL. A survey of mealybugs and associated natural enemies in vineyards in the Western Cape Province, South Africa. *South African Journal of Enology and Viticulture* 2004; **25**(1): 23-25.
11. WALTON VM, PRINGLE KL. Vine mealybug, *Planococcus ficus* (Signoret) (Homoptera: Pseudococcidae), a key pest in South African vineyards. A review. *South African Journal of Enology and Viticulture* 2004; **25**(2): 54-62.
12. WITT ABR, GILIOME JH, GEERTSEMA H. The impact of an invasive ant, *Linepithema humile* (Mayr) (Hymenoptera: Formicidae), on the dispersal of the elaiosome-bearing seeds of six plant species. *African Entomology* 2004; **12**(2): 223-230.
13. WITT ABR, GILIOME JH. The impact of an invasive ant, *Linepithema humile* (Mayr), on the dispersal of *Phylla pubescens* Aiton seeds in South Africa. *African Entomology* 2004; **12**(2): 179-185.
14. WITT ABR, SAMWAYS MJ. Influence of agricultural land transformation and pest management practices on the arthropod diversity of a biodiversity hotspot, the Cape Floristic region, South Africa. *African Entomology* 2004; **12**(1): 89-95.

Master's completed

1. BALL J. *Approaches towards a critical evaluation and update of the Red Data List of South African butterflies*. MSc, 2004. 221 pp. Supervisor: Prof H Geertsema.
2. GRANT PBC. *Conservation ecology of dragonflies (Odonata) in the Kogelberg Biosphere Reserve, a global biodiversity hotspot*. MSc, 2004. 240 pp. Supervisor/co-supervisor: Prof MJ Samways/Prof H Geertsema.
3. PRYKE JS. *Source and identity of insect contaminants in export consignments of table grapes*. MSc, 2004. 223 pp. Supervisor: Prof MJ Samways.

FOOD SCIENCE

Journal articles

1. DE BEER D, HARBERTSON JF, KILMARTIN PA, ROGINSKY V, BARSUKOVA T, ADAMS DO, WATERHOUSE ALW. Phenolics: A comparison of diverse analytical methods. *American Journal of Enology and Viticulture* 2004; **55**(4): 389-400.
2. GARBERS I-M, BRITZ TJ, WITTHUHN RC. PCR-based DGGE typification and identification of the microbial consortium present in Kefir grains. *World Journal of Microbiology and Biotechnology* 2004; **20**(7): 687-693.
3. JOUBERT E, WINTERTON P, BRITZ TJ, FERREIRA D. Superoxide anion and alpha, alpha-diphenyl-beta-picrylhydrazyl radical scavenging capacity of rooibos (*Aspalathus linearis*) aqueous extracts, crude phenolic fractions, tannin and flavonoids. *Food Research International* 2004; **37**(2004): 133-138.
4. NIEUWOUDT HH, PRIOR BA, PRETORIUS IS, MANLEY M, BAUER FF. Principal component analysis applied to Fourier Transform Infrared Spectroscopy for the design of calibration sets for glycerol prediction models in wine and for the detection and classification of outlier samples. *Journal of Agricultural and Food Chemistry* 2004; **52**(12): 3726-3735.
5. THEUNISSEN J, WITTHUHN RC. Probiotic content: Truth or fiction? *South African Food Review* 2004; **31**(5): 15-17.
6. VAN DER MERWE IR, BAUER R, BRITZ TJ, DICKS LMT. Characterization of thoeniicin 447, a bacteriocin isolated from *Propionibacterium thoenii* strain 447. *International Journal of Food Microbiology* 2004; **92**(2004): 153-160.
7. WITTHUHN RC, SCHOEMAN T, BRITZ TJ. Isolation and characterization of the microbial population of different South African kefir grains. *International Journal of Dairy Technology* 2004; **57**(1): 33-37.

Proceedings international

1. ELS ER, VAN ZYL PJ, BRITZ TJ. *Bioreactor for mass culturing of UASB granules in twenty days*. Anaerobic Digestion 10th World Congress. Montreal, Canada, 2004: 1920-1923.
2. MANLEY M, DE BRUYN N, DOWNEY G. *Classification of three-year old, unblended South African brandy with near infrared spectroscopy*. Near Infrared Spectroscopy: Proceedings of the 11th International Conference. Chichester, United Kingdom, 2004: 563-567.
3. MANLEY M, GRAY BR, JOUBERT E, SCHULZ H. *NIRS: An invaluable tool for the quality control of Devil's Claw (Harpagophytum procumbens)*. Near Infrared Spectroscopy: Proceedings of the 11th International Conference. Chichester, United Kingdom, 2004: 879-882.
4. MYBURGH L, MANLEY M, JOUBERT E, LOTZ E. *Non-destructive evaluation of storage potential of clingstone peaches by NIRS using PCA and SIMCA*. Near Infrared Spectroscopy: Proceedings of the 11th International Conference. Chichester, United Kingdom, 2004: 367-372.
5. SIGGE GO, BRITZ TJ, FOURIE PC, BARNARDT CA. *The efficacy of ozone as a pre- and post-treatment option for UASB treated food processing waste waters*. Anaerobic Digestion 10th World Congress. Montreal, Canada, 2004: 1022-1027.

Chapters in books

1. BRITZ TJ, LAMPRECHT C, HUNG Y-T. Treatment of dairy processing waste waters. In: Lawrence K Wang (Ed.). *Handbook of Industrial and Hazardous Waste Treatment*. Marcel Dekker, Inc. New York, USA, 2004: 13.

Doctoral completed

1. SIGGE GO. *Integration of anaerobic biological and advanced chemical oxidation processes to facilitate biodegradation of fruit canning and winery waste waters*. PhD (Food Science), 2004. 150 pp. Promoter/co-promoter: Prof TJ Britz./Dr PC Fourie.

Master's completed

1. BOTHA SSTC. *The effects of hot-deboning on the physical quality characteristics of ostrich (struthio camelus) muscularis gastrocnemius, pars interna and muscularis iliofibularis*. MSc Food Science, 2004. 152 pp. Supervisor/co-supervisor: Prof LC Hoffman/Prof TJ Britz.
2. DUMALISILE P. *Impact of pasteurisation temperatures on survival of bacterial contaminants from milk*. MSc Food Science, 2004. 84 pp. Supervisor/co-supervisor: Prof TJ Britz/Dr RC Witthuhn.
3. KOHRS A. *Preservation of red meat with natural antimicrobial peptides from lactic acid bacteria*. MSc Food Science, 2004. 116 pp. Supervisor/co-supervisors: Prof LC Hoffman/Proff LMT Dicks and TJ Britz.

4. KROUCAMP M. *Determination and quantification of factors that influence the meat quality of Springbok*. MSc Food Science, 2004. 121 pp. Supervisor/co-supervisor: Prof LC Hoffman/Dr M Manley.
5. LATSKY A. *Lab-scale optimisation of the Kefir beverage production from mass-cultured and freeze-dried Kefir grains*. MSc Food Science, 2004. 92 pp. Supervisor/co-supervisor: Dr RC Witthuhn/Prof TJ Britz.
6. McLACHLAN T. *Integration of a combined UASB-ozonation treatment system for cellar effluent degradation*. MSc Food Science, 2004. 129 pp. Supervisor/co-supervisor: Mr GO Sigge/Prof TJ Britz.
7. ROELF C. *Categorisation of bycatch and fish waste and the nutritional value thereof*. MSc Food Science, 2004. 208 pp. Supervisor/co-supervisors: Prof LC Hoffman/Dr M Manley and A Dalton.
8. SADIE L. *Identification and characterisation of glassiness in commercially processed French fried potatoes*. MSc Food Science, 2004. 101 pp. Supervisor/co-supervisors: Dr RC Witthuhn/Dr A Dalton and M Manley.
9. THEUNISSEN J. *Identification of probiotic microbes from South African products using PCR-based DGGE analyses*. MSc Food Science, 2004. 71 pp. Supervisor/co-supervisor: Dr RC Witthuhn/Prof TJ Britz.
10. VAN DER MERWE JD. *Antimutagenicity of Cyclopa spp against aflatoxin B1*. MSc Food Science, 2004. 212 pp. Supervisor/co-supervisors: Dr E Joubert/Dr M Manley and WCA Gelderblom.
11. VAN SCHALKWYK N. *The combination of UASB and ozone technology in the treatment of a pectin containing wastewater from the apple juice processing industry*. MSc Food Science, 2004. 108 pp. Supervisor/co-supervisor: Mr GO Sigge/Prof TJ Britz.

FORESTRY SCIENCE

Journal articles

1. ACKERMAN P, PULKKI RE. Shorthaul transport of roundwood pulpwood in South Africa. A network analysis case study. *Southern African Forestry Journal* 2004; **201**: 43-51.
2. HENGARI SN, VALENTINE AJ, THERON JM. The effect of the colonisation extent of arbuscular mycorrhizal fungi on the growth of pot grown *Pterocarpus angolensis* seedlings. *Southern African Forestry Journal* 2004; **202**: 13-20.
3. LAENGIN DW, ACKERMAN P, LEWARK S. Internet based learning in higher forestry education. *Unasylva* 216 2004; **55**(1): 5.
4. THERON JM, VAN LAAR A, KUNNEKE A, BREDEKAMP BV. A preliminary assessment of utilizable biomass in invading *Acacia* stands on the Cape coastal plains. *South African Journal of Science* 2004; **100**: 123-125.
5. VAN LAAR A, THERON JM. Equations for predicting the biomass of *Acacia cyclops* and *Acacia saligna* in the western and eastern Cape regions of South Africa. Part 1: Tree-level models. *Southern African Forestry Journal* 2004; **201**: 25-34.
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1. ACKERMAN PA, PULKKI RE, NICHOLLS S. *Provincial road condition and round wood transport in South Africa*. Forest Engineering: New Technologies, Techniques and the Environment. IUFRO Eastern European Conference. Ukrainian State University, Lviv, Ukraine, 2004: 437-449.
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2. THERON JM, BREDEKAMP BV. Stand density and stocking in plantations. In: Burley J, Evans J, Youngquist JA (Eds). *Encyclopedia of Forest Sciences*. Elsevier Ltd, Oxford, United Kingdom, 2004: 829-836.

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1. NICHOLLS S. *The effect of South African provincial road condition on the efficiency of forest road transport*. MScForest, 2004. 111 pp. Supervisor: Mr PA Ackerman.
2. ROSS T. *Fuel load characterisation and quantification for the development of fuel models for Pinus patula in South Africa*. MScForest, 2004. 130 pp. Supervisor: Dr JM Theron.

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1. BESTER AE, SLABBERT R, D'AMATO ME. Isolation and characterization of microsatellite markers in the South African abalone (*Haliotis midae*). *Molecular Ecology* 2004; **4**(4): 618-619.
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3. ENGELBRECHT J, GEBHARDT GS, HILLERMANN-REBELLO R, HALL DR. Collection of fetal cells in cervical secretions without ultrasound guidance. *Journal of Obstetrics and Gynaecology* 2004; **24**(6): 662-663.
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5. HOAL EG, LEWIS L-A, JAMIESON SE, TANZER F, ROSSOUW M, VICTOR TC, HILLERMANN-REBELLO R, BEYERS N, BLACKWELL JM, VAN HELDEN PD. *NRAMP1 (SLC11A1)* but not *NRAMP2 (SLC11A2)* polymorphisms are associated with susceptibility to tuberculosis in a high incidence community in South Africa. *International Journal of Tuberculosis and Lung Disease* 2004; **8**(12): 1464-1471.
6. JACOBS JA, HANEKOM L, MARAIS AS, MARAIS GF. Development of SCAR markers for a *Thiopyrum distichum* chromosome that appears to be involved in salt tolerance. *South African Journal of Plant and Soil* 2004; **21**: 236-239.
7. KOTZÉ MJ, DE VILLIERS JNP, BOUWENS CSH, WARNICH L, ZAAHL MG, VAN DER MERWE S, OBERKANINS C. Molecular diagnosis of hereditary haemochromatosis: Application of a newly-developed reverse-hybridization assay in the South African population. *Clinical Genetics* 2004; **65**: 317-321.
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10. SNYMAN JE, PRETORIUS ZA, KLOPPERS FJ, MARAIS GF. Detection of adult-plant resistance to *Puccinia triticina* in a collection of wild *Triticum* species. *Genetic Resources and Crop Evolution* 2004; **51**: 591-597.
11. ZAAHL MG, DU PLESSIS L, WARNICH L, KOTZÉ MJ, MOORE SW. Significance of novel endothelin-B-receptor gene polymorphisms in Hirschsprung's disease: Predominance of a novel variant (561C/T) in patients with co-existing Down's syndrome. *Molecular and Cellular Probes* 2003; **17**: 49-54.
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1. BRINK D. *Genetic improvement of growth rate in rainbow trout* (*Onchorhynchus mykiss*). PhD (Agric), 2004. 150 pp. Promoter/co-promoter: Dr JH Louw/Prof LCH Hoffman.

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1. DE BEER M. *Induction of Triploidy in the South African abalone, Haliotis midae, by method of hydrostatic pressure*. MScAgric, 2004. 150 pp. Supervisor/co-supervisor: Mr D Brink/Dr R Roodt-Wilding.
2. LOUBSER D. *Molecular tagging of *Thinopyrum distichum* chromosomes involved in salt tolerance*. MSc, 2004. 99 pp. Supervisor: Prof GF Marais.
3. ROSE BA. *The characterisation and partial sequencing of the grapevine chloroplast genome*. MSc, 2004. 113 pp. Supervisor: Prof JT Burger.
4. SLABBERT R. *Molecular analysis of genetic variation and relationships within the population of abalone (*Haliotis midae*) at the sea plant products abalone hatchery*. MSc, 2004. 210 pp. Supervisor/co-supervisor: Mr ME D'Amato/Mr D Brink.
5. VAN EEDEN C. *The construction of gene silencing transformation vectors for the introduction of multiple virus resistance in grapevine*. MSc, 2004. 119 pp. Supervisor: Prof JT Burger.
6. WHITEHEAD CB. *Molecular analysis of GJB2 (connexin 26) and GJB6 (connexin 30) mutations in non-syndromic hereditary deafness in South Africa*. MSc, 2004. 161 pp. Supervisor/co-supervisors: Prof L Warnich/Dr G de Jong and MJ Kotzé.

HORTICULTURAL SCIENCE**Journal articles**

1. ANDERSON D, WUSTENBERGHS H, COOK NC, KEULEMANS J. Effect of contamination by viruses on vegetative and reproductive growth of sour cherry on F12/1 and Damil Rootstocks. *Acta Horticulturae* 2004; **658**: 379-385.
2. BARRY GH, CASTLE WS. Rootstocks and plant water relations affect sugar accumulation of 'Valencia' sweet orange via osmotic adjustment. *Acta Horticulturae* 2004; **632**: 159-165.
3. BARRY GH, CASTLE WS, DAVIES FS. Juice quality of 'Valencia' sweet oranges borne on different inflorescence types. *Hortscience* 2004; **39**(1): 33-35.
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7. COSTA C, STASSEN PJC, MUDZUNGA J. Chemical rest breaking agents for the South African pome and stone fruit industry. *Acta Horticulturae* 2004; **636**: 295-302.
8. CRONJE PJR, JACOBS G, COOK NC. Pruning affects of development of correlative phenomena among lateral shoots in dormant two-year-old 'Royal Gala' apple branches. *Hortscience* 2004; **39**(5): 965-968.
9. LE GRANGE M, WAND SJE, THERON KI. Effect of kaolin applications on apple fruit quality and gas exchange of apple leaves. *Acta Horticulturae* 2004; **636**: 545-550.
10. LÖTZE E, BERGH O. Early prediction of harvest fruit size distribution of an apple and pear cultivar. *Scientia Horticulturae* 2004; **101**: 281-290.
11. LÖTZE E, BERGH O. Summary of the quality prediction project results for 2003/04 for pome fruit. *SA Fruit Journal* 2004; **Sept/Oct**: 9-10.
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13. PRETORIUS JJB, WAND SJE, THERON KI. Fruit and shoot growth following combined girdling and thinning of 'Royal Gala' apple trees. *Acta Horticulturae* 2004; **636**: 401-407.
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15. STEYN WJ, HOLCROFT DM, WAND SJE, JACOBS G. Regulation of pear color development in relation to activity of flavonoid enzymes. *Journal of the American Society for Horticultural Science* 2004; **129**(1): 6-12.
16. VERREYNNE S, RABE E, THERON KI. Effect of bearing position on fruit quality of mandarin types. *South African Journal of Plant and Soil* 2004; **21**(1): 1-6.
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18. WAND SJE. Ninth International Symposium on pear growing. *South African Fruit Journal* 2004; **3**(4): 32-33.
19. WAND SJE, MIDGLEY GF. Effects of atmospheric CO₂ concentration and defoliation on the growth of *Themeda triandra*. *Grass and Forage Science* 2004; **59**: 215-226.
20. YESHITELA T, ROBBERTSE PJ, STASSEN PJC. Effects of various inductive periods and chemicals on flowering and vegetative growth of 'Tommy Atkins' and 'Keitt' mango (*Mangifera indica*) cultivars. *New Zealand Journal of Crop and Horticultural Science* 2004; **32**: 209-215.
21. YESHITELA T, ROBBERTSE PJ, STASSEN PJC. Paclobutrazol suppressed vegetative growth and improved yield as well as fruit quality of 'Tommy Atkins' mango (*Mangifera indica*) in Ethiopia. *New Zealand Journal of Crop and Horticultural Science* 2004; **32**: 281-293.

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1. MEINTJES JJ. *Advanced evaluation of prohexadione-calcium as growth regulator on deciduous fruit trees*. MScAgric, 2004. 76 pp. Promoter: Prof KI Theron.
2. PIETERSE WM. *A study on dormancy and chilling requirement of peaches and nectarines*. MScAgric, 2004. 84 pp. Promoter: Prof KI Theron.
3. REYNOLDS LP. *Reproductive bud development in pears*. MScAgric, 2004. 64 pp. Promoter: Prof KI Theron.
4. VAN HOORN AT. *Optimisation of blueberry postharvest handling and storage*. MScAgric, 2004. 147 pp. Promoter: Dr M Huysamer.
5. VAN WYK AA. *Time-temperature interaction on postharvest rind colour development in citrus*. MScAgric, 2004. 133 pp. Promoter: Dr GH Barry.

NATURE CONSERVATION

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2. CHOWN SL, KLOK CJ, McGEOCH MA. Weather to go out: Activity of *Bothrometopus brevis* at Heard Island. *Polar Biology* 2004; **27**: 217-221.
3. HUGO AE, McGEOCH MA, MARSHALL DJ, CHOWN SL. Fine scale variation in microarthropod communities inhabiting the keystone species *Azorella selago* on Marion Island. *Polar Biology* 2004; **27**: 466-473.
4. HUI C, YUE D. Niche construction and polymorphism maintenance in metapopulations. *Ecological Research* 2004; **10**: 1440-1703.
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6. LE ROUX P, McGEOCH MA. The use of size as an estimator of age in the subantarctic cushion plant, *Azorella selago* (Apiaceae). *Arctic, Antarctic and Alpine Research* 2004; **36**(4): 608-616.
7. MATTHEE S, KRECEK RC, McGEOCH MA. A comparison of the intestinal helminth communities of equidae in South Africa. *Journal of Parasitology* 2004; **90**: 1263-1273.
8. MATTHEE S, McGEOCH MA. Helminths in horses: Use of selective treatment for the control of strongyles. *Journal of the South African Veterinary Association* 2004; **75**(3): 129-136.
9. McGEOCH MA, PRICE PW. Spatial abundance structures in an assemblage of gall-forming sawflies. *Journal of Animal Ecology* 2004; **73**: 506-516.
10. MILTON SJ. Grasses as invasive alien plants in South Africa. *South African Journal of Science* 2004; **100**: 69-75.
11. OR K, WARD DM. The effects of seed quality and pipecolic and dienkolic acids on bruchid beetle infestation in water deficit-stressed Acacia trees. *Journal of Chemical Ecology* 2004; **30**(11): 2291-2301.
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13. SCHURR FM, BOSSDORF OB, MILTON SJ, SCHUMACHER JS. Spatial pattern formation in semi-arid shrubland: A priori predicted versus observed pattern characteristics. *Plant Ecology* 2004; **173**: 271-282.
14. VELDTMAN R, McGEOCH MA. Spatially explicit analyses unveil density dependence. *Proceedings of the Royal Society of London Series B – Biological Sciences* 2004; **271**: 2439-2444.
15. VELDTMAN R, SCHOLTZ CH, McGEOCH MA. Parasitoids of southern African wild silk moths (Lepidoptera). *African Entomology* 2004; **12**(1): 117-122.
16. VOLIS S, MEDLINGER S, WARD DM. Demography and role of the seed bank in Mediterranean and desert populations of wild barley. *Basic and Applied Ecology* 2004; **5**: 53-64.
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20. WARD DM, SALTZ D, NGAIRORUE BT. Spatio-temporal rainfall variation and stock management in arid Namibia. *Journal of Range Management* 2004; **57**: 130-140.
21. WIEGAND K, JELTSCH F, WARD D. Minimum recruitment frequency in plants with episodic recruitment. *Oecologia* 2004; **141**: 363-372.
22. YUE D, HUI C, LI Z. Niche construction for desert plants in individual and population scales: Theoretical analysis and evidences from saksaul (*Haloxylon ammodendron*) forests. *Israel Journal of Plant Sciences* 2004; **52**: 235-244.

Books

1. KRUG CB. *Peanut and the puff adder*. Juta Gariep (Pty) Ltd, Cape Town, South Africa, 2004. 32 pp.
2. MILTON SJ. *A very busy world*. Juta Gariep (Pty) Ltd, Stellenbosch, South Africa, 2004. 48 pp.

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1. VELDTMAN R. *The ecology of southern African wild silk moths (Gonometa species, Lepidoptera: Lasiocampidae): Consequences for their sustainable use*. PhD, 2004. 50 pp. Supervisor/co-supervisor: Prof CH Scholtz (University of Pretoria)/Prof MA McGeoch.

Master's completed

1. MIDOKO-IPONGA D. *Influence of herbivory and competition by grasses on establishment of shrub species on grazing lawns in Lowland Renosterveld*. MSc, 2004. 50 pp. Supervisor/co-supervisor: Prof SJ Milton/Dr CB Krug.

PLANT PATHOLOGY

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1. DENMAN S, CROUS PW, SADIE A, WINGFIELD MJ. Evaluation of fungicides for the control of *Botryosphaeria protearum* on *Protea magnifica* in the Western Cape Province of South Africa. *Australasian Plant Pathology* 2004; **33**: 97-102.
2. ENGELBRECHT R, HOLZ G, PRINGLE KL. Occurrence of fruit-decaying fungi on adult male Mediterranean fruit flies (*Ceratitis capitata*) captured in orchards and adjacent vineyards. *South African Journal of Enology and Viticulture* 2004; **25**(2): 48-53.
3. FOURIE PH, HALLEEN F. Occurrence of grapevine trunk disease pathogens in rootstock mother plants in South Africa. *Australasian Plant Pathology* 2004; **33**: 313-315.
4. FOURIE PH, HALLEEN F. Proactive control of petri disease of grapevine through treatment of propagation material. *Plant Disease* 2004; **88**(11): 1241-1245.
5. FOURIE PH. Metalaxyl sensitivity status of downy mildew populations in Western Cape vineyards. *South African Journal of Enology and Viticulture* 2004; **25**(1): 19-22.
6. HALLEEN F, SCHROERS H-F, GROENEWALD JZ, CROUS PW. Novel species of *Cylindrocarpon* (*Neonectria*) and *Campylocarpon* gen. nov. associated with black foot disease of grapevines (*Vitis* spp.). *Studies in Mycology* 2004; **50**: 431-455.

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8. LEE S, MEL'NIK V, TAYLOR JE, CROUS PW. Diversity of saprobic hyphomycetes on *Proteaceae* and *Restionaceae* from South Africa. *Fungal Diversity* 2004; **17**: 91-114.
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10. MEL'NIK V, LEE S, GROENEWALD JZ, CROUS PW. New hyphomycetes from *Restionaceae* in fynbos: *Parasarcopodium ceratocaryi* gen. et sp. nov. and *Rhexodenticula elegiae* sp. nov. *Mycological Progress* 2004; **3**(1): 19-28.
11. NTUSHELO K, CROUS PW. Fungicide sensitivity in *Tapesia yallundae* populations collected from 15 wheat fields in the Western Cape province of South Africa. *South African Journal of Plant and Soil* 2004; **21**(2): 104-108.
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13. VAN NIEKERK JM, CROUS PW, GROENEWALD JZ, FOURIE PH, HALLEEN F. DNA phylogeny, morphology and pathogenicity of *Botryosphaeria* species on grapevines. *Mycologia* 2004; **96**(4): 781-798.
14. VAN NIEKERK JM, GROENEWALD JZ, VERKLEY GJM, FOURIE PH, WINGFIELD MJ, CROUS PW. Systematic reappraisal of *Coniella* and *Pilidiella*, with specific reference to species occurring on *Eucalyptus* and *Vitis* in South Africa. *Mycological Research* 2004; **108**(3): 283-303.
15. WOOD A, CROUS PW, LENNOX CL. Predicting the distribution of *Endophyllum osteospermi* (Uredinales, Pucciniaceae) in Australia based on its climatic requirements and distribution in South Africa. *Australasian Plant Pathology* 2004; **33**: 549-558.

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1. BRINK JC, HOLZ G, CALITZ FJ, FOURIE PH. *Development of a protocol to quantify spray deposits on grape bunches*. 7th International Symposium on Adjuvants for Agrochemicals. Cape Town, South Africa, 2004: 230-235.

Books

1. CROUS PW, DENMAN S, TAYLOR JE, SWART L, PALM ME. *Cultivation and diseases of Proteaceae: Leucadendron, Leucospermum and Protea*. Centraalbureau voor Schimmelcultures, Utrecht, Netherlands, 2004. 228 pp.

Chapters in books

1. HOLZ G, COERTZE S, WILLIAMSON B. The ecology of *Botrytis cinerea* on plant surfaces. In: Elad Y, Williamson B, Tudzynski P, Delen N (Eds). *Botrytis: Biology, Pathology and Control*. Kluwer Academic Publishers, Amsterdam, The Netherlands, 2004: 19.

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1. WOOD A. *The biology of Endophyllum osteospermi, and its use for the biological control of Chrysanthemoides monilifera ssp. monilifera*. PhD (Agric), 2004. 128 pp. Promoter/co-promoter: Prof PW Crous/Dr CL Lennox.

Master's completed

1. LUBBE CM. *Colletotrichum diseases of Proteaceae*. MScAgric, 2004. 116 pp. Supervisor/co-supervisors: Ms S Denman/Dr SC Lamprecht and Prof PW Crous.
2. VAN COLLER GJ. *An investigation of soilborne fungi associated with roots and crowns of nursery grapevines*. MScAgric, 2004. 146 pp. Supervisor/co-supervisors: Ms S Denman/Dr SC Lamprecht and Prof PW Crous.
3. VAN NIEKERK JM. *Characterisation of pathogens associated with trunk diseases of grapevines*. MScAgric, 2004. 132 pp. Supervisor/co-supervisor: Prof PW Crous/Dr PH Fourie.
4. VAN SCHOOR JA. *The ecology of Botrytis cinerea on grape in the Western Cape province*. MScAgric, 2004. 101 pp. Supervisor: Prof G Holz.

SOIL SCIENCE

Journal articles

1. FEY MV, MANSON A. Soil chemistry in South Africa: A quarter century of progress and prospects for the future. *South African Journal of Plant and Soil* 2004; **21**: 278-287.
2. HOFFMAN JE. Besproeiingskedulering gedurende tye van watertekorte. *SA Vrugte Joernaal* 2004; **3**(6): 58-60.
3. MILLS AJ, FEY MV, JOHNSON MV. Ionic strength as a measure of sulphate salinity stress: Effects of sodium sulphate, sodium chloride and manganese sulphate on kikuyu (*Pennisetum clandestinum*) growth and ion uptake. *South African Journal of Plant and Soil* 2004; **21**: 209-213.
4. MILLS AJ, FEY MV. A simple laboratory infiltration method for measuring the tendency of soils to crust. *Soil Use and Management* 2004; **20**: 8-12.
5. MILLS AJ, FEY MV. Effects of vegetation cover on the tendency of soil to crust in South Africa. *Soil Use and Management* 2004; **20**: 308-317.
6. MILLS AJ, FEY MV. Frequent fires intensify soil crusting: Physicochemical feedback in the pedoderm of long-term burn experiments in South Africa. *Geoderma* 2004; **121**: 45-64.
7. MILLS AJ, FEY MV. Soil carbon and nitrogen in five contrasting biomes of South Africa. *South African Journal of Plant and Soil* 2004; **21**: 94-103.
8. MILLS AJ, FEY MV. Transformation of thicket to savanna reduces soil quality in the Eastern Cape, South Africa. *Plant and Soil* 2004; **265**: 153-163.
9. O'CONNOR TG, UYS R G, MILLS AJ. Ecological effects of firebreaks in the montane grasslands of the southern Drakensberg, South Africa. *African Journal of Range & Forage Science* 2004; **21**: 1-10.

Proceedings international

1. CONRADIE WJ. *Partitioning of mineral nutrient and timing of fertilizer applications for optimum efficiency*. American Society for Enology and Viticulture; Soil Environment and Vine Mineral Nutrition Symposium. San Diego, USA, 2004: 69-81.

Chapters in books

1. FEY MV. Cyanobacteria in Eutrophic Freshwater Systems. In: Stewart A, Terry A, Howell TA (Eds). *Encyclopedia of Water Science*. Marcell Dekker, 2004: 3.

Master's completed

1. DOWDING C. *Morphology, mineralogy and surface chemistry of manganiferous oxisols near Graskop, Mpumalanga Province, South Africa*. MScAgric, 2004. 124 pp. Supervisor/co-supervisor: Prof MV Fey/Dr F Ellis.
2. HARDIE A. *Decontamination of soils by activation with acids and bases*. MScAgric, 2004. 120 pp. Supervisor: Prof MV Fey.
3. HOWELL CL. *Improvement of existing laboratory method by means of which water holding capacity of soil is determined on a routine basis*. MScAgric, 2004. 126 pp. Supervisor: Dr JE Hoffman.
4. MONGWE HG. *Soil organic matter status of natural and plantation forests in the Northern Province*. MScAgric, 2004. 163 pp. Supervisor/co-supervisor: Dr A Rozanov/Prof MV Fey.

VITICULTURE AND OENOLOGY

Journal articles

1. ARCHER E, HUNTER JJ. Vine balance: Its importance to successful cultivation. *Wynboer* 2004; **175**: 61-67.
2. BONNARDOT VMF, CAREY VA, STRYDOM J. Weather stations: Applications for viticulture. *Wynboer* 2004; **178**: 88-90.
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14. SAUNDERS T. *Evaluation of internet search tools – instrument design*. MPhil, 2004. 99 pp. Supervisor: Dr MS van der Walt.
15. TAFANE Z. *Readiness assessment of selected tourism institutions for electronic business system applications in the Western Cape tourism industry*. MPhil, 2004. 124 pp. Supervisor: Mr DF Botha.
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3. HOWARD AJ. Concert. *Bass solo in Cantata "Wachet auf, ruft uns die Stimme" by JS Bach and Mass in G Minor by Schubert.* NG Church, Welgelegen, Bellville, South Africa, 2004.
4. HOWARD AJ. Concert. *Bass solo in Christmas Oratorio by JS Bach.* NG Church Welgelegen, Bellville, South Africa, 2004.
5. HOWARD AJ. Opera. *The role of Germont in La Traviata by Guiseppe Verdi.* State Theatre, Pretoria, South Africa, 2004.
6. HOWARD AJ. Symphony concert. *"Lieder eines fahrenden Gesellen" by Gustav Mahler.* Endler Hall, Stellenbosch, South Africa, 2004.
7. KIERMAN P. Choral Festival. *Various works for brass ensemble with organ.* Groote Kerk, Cape Town, South Africa, 2004.
8. KIERMAN P. Gala concert. *Gala concert by the Stellenbosch Symphonic Winds.* Endler Hall, Stellenbosch, South Africa, 2004.
9. KIERMAN P. Gala concert. *Gala concert, various works for symphonic wind band.* Endler Hall, Stellenbosch, South Africa, 2004.
10. MARTENS S. Chamber music concert. *Chamber music by Chausson and Ravel.* Hugo Lambrechts Auditorium. With the Allegri Trio, Cape Town, South Africa, 2004.

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15. MARTENS S. Concert. *Music by Beethoven and Messiaen, with Piano Quartet*. Nederburg, Paarl, South Africa, 2004.
16. MARTENS S. Concert. *Piano Trios by Haydn, Beethoven, Brahms. Welgemoed, with the Lyric Trio*. Cape Town, South Africa, 2004.
17. MARTENS S. Concert. *Schubert: Octet. Musaion, Pretoria. Chamber Orchestra of South Africa*, Pretoria, South Africa, 2004.
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19. MARTENS S. Concert. *String quartets by Mozart, Beethoven and Dvorak, with the Schwietering Quartet*. Cape Town, South Africa, 2004.
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22. MARTENS S. Symphony concert. *Mozart: Violin Concerto no. 4, with the University of Stellenbosch Symphony Orchestra*. Endler Hall, Stellenbosch, South Africa, 2004.
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25. MATEI C. Opera performance. *Cape Town Chamber Orchestra. Erik Chisholm: "The Pilgrim's Tale" (Opera)*. Little Theatre, Cape Town, South Africa, 2004.
26. MATEI C. Orchestral concert. *Bucharest Camerata. Concerti by Corelli, Albinoni, Vivaldi, Bach, Telemann*. Concert Hall, Bucharest, Romania, 2004.
27. MATEI C. Symphony Concert. *Beethoven: Egmont Overture; Mozart: Violin Concerto in D major; Beethoven: Symphony no 7*. Endler Hall, Stellenbosch, South Africa, 2004.
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29. MATEI C. Symphony concert. *Roosenschoon: Circle of Light (Ligkring); Tchaikovsky: Piano Concerto no 1 and Symphony no 5*. Endler Hall, Stellenbosch, South Africa, 2004.
30. MATEI C. Symphony concert. *Temmingh: Concertino; Mahler; Lieder eines fahrenden Gesellen; Arnold van Wyk; Symphony no 1*. Endler Hall, Stellenbosch, South Africa, 2004.
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40. SCHUMANN NV. Concert. *Various Chamber Music Works*. Endler Hall, Stellenbosch, South Africa, 2004.
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42. SCHUMANN NV. Master classes. *Master Classes as Faculty Member at the Viana de Castelo International Music Festival*. Viana de Castelo, Portugal, 2004.
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3. BOWERS LJ. *Utilization of research knowledge in South African Higher Institutions*. MPhil, 2004. 92 pp. Supervisor: Prof J Mouton.
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2. BEZUIDENHOUT L. *Detecting change in nonlinear dynamic process systems*. MScIng, 2004. 146 pp. Supervisor: Prof C Aldrich.

3. CRONJE M. *Investigation of electrochemical combustion plant for rural water disinfection and industrial organic effluent removal*. MScIng, 2004. 177 pp. Supervisor: Mr C Nel.
4. FOURIE DJ. *The computational thermodynamic modelling of the phase equilibria pertaining to the TiO₂-Ti₂O₃-FeO slag system*. MScIng, 2004. 172 pp. Supervisor: Mr JJ Eksteen.
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FACULTY OF HEALTH SCIENCES

ANATOMICAL PATHOLOGY

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3. DE VILLIERS MR. CPD – quo vadis? (Editorial). *Journal of South African Dental Association* 2004; **59**(6): 224.
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3. MARSZALEK J. *Mobidity profile of admissions to GF Jooste Hospital, Manenberg, Cape Town*. MFamMed, 2004. 32 pp. Supervisor: Prof PJT de Villiers.

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6. STEYN F. *Die impak van psoriase op die lewenskwaliteit van pasiënte*. MFamMed, 2004. 23 pp. Supervisor/co-supervisor: Prof J Cilliers/Prof PJT de Villiers.

HAEMATOLOGICAL PATHOLOGY

Proceedings international

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4. VISSER J, LABUSCHAGNE IL, LABADARIOS D. Alternative nutritional remedies for people living with HIV/AIDS. *South African Food Review* 2004; **31**(7): 10-12.

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1. MASH RJ, VAN DEVENTER I, MARAIS D, VAN DER WALT S, STEYN MM, LABADARIOS D. *Assessment of the quality of interactions in distance learning courses utilizing the Internet (WebCT) or interactive television (ITV) Part 2*. 11th International Ottawa Conference on Medical Education – Educacion Medica Revista International Journal. Barcelona, Spain, 2004: 16.
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INTERNAL MEDICINE

Journal articles

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2. BOLLIGER CT, BREITENBUECHER A, BRUTSCHE M, HEITZ M, STANZEL F. Use of studded polyflex (TM) stents in patients with neoplastic obstructions of the central airways. *Respiration* 2004; **71**(1): 83-87.
3. BRINK PA. Metabolic cardiomyopathy. *Cardiovascular Journal of Southern Africa* 2004; **15**(5): 220.
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2. AUCAMP M. *Evaluering van die opleiding van gemeenskapsgesondheidswerkers in die distrik Overberg: 'n Verpleegperspektief*. MCur, 2004. 130 pp. Supervisor: Dr ME Bester.
3. DAMONS A. *Evaluasie van verpleegsorg van pasiënte met eindstadium nierversaking*. MCur, 2004. 120 pp. Supervisor: Dr ME Bester.
4. DIKLOTLA NJ. *An evaluation of the nursing component of a selected primary health care service*. MCur, 2004. 230 pp. Supervisor: Prof EB Welmann.
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7. NDUNGANE BP. *Evaluation of factors influencing the performance of bridging course nursing students in the Eastern Cape Province*. MCur, 2004. 68 pp. Supervisor: Dr ME Bester.
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4. ROUX A. *Early onset severe pre-eclampsia: Expectant management at a secondary hospital in close association with a tertiary institution*. MMed, 2004. 31 pp. Supervisor: Prof DR Hall.
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5. SCHABORT E. *A study of stem cell recruitment and myocyte apoptosis in cardiac and skeletal cardiac and skeletal adaptive response to ischaemia, hypoxia and wasting. PhD(Physiol)* Promoter/co-promoter Dr CU Niesler/Prof KH Myburgh.

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