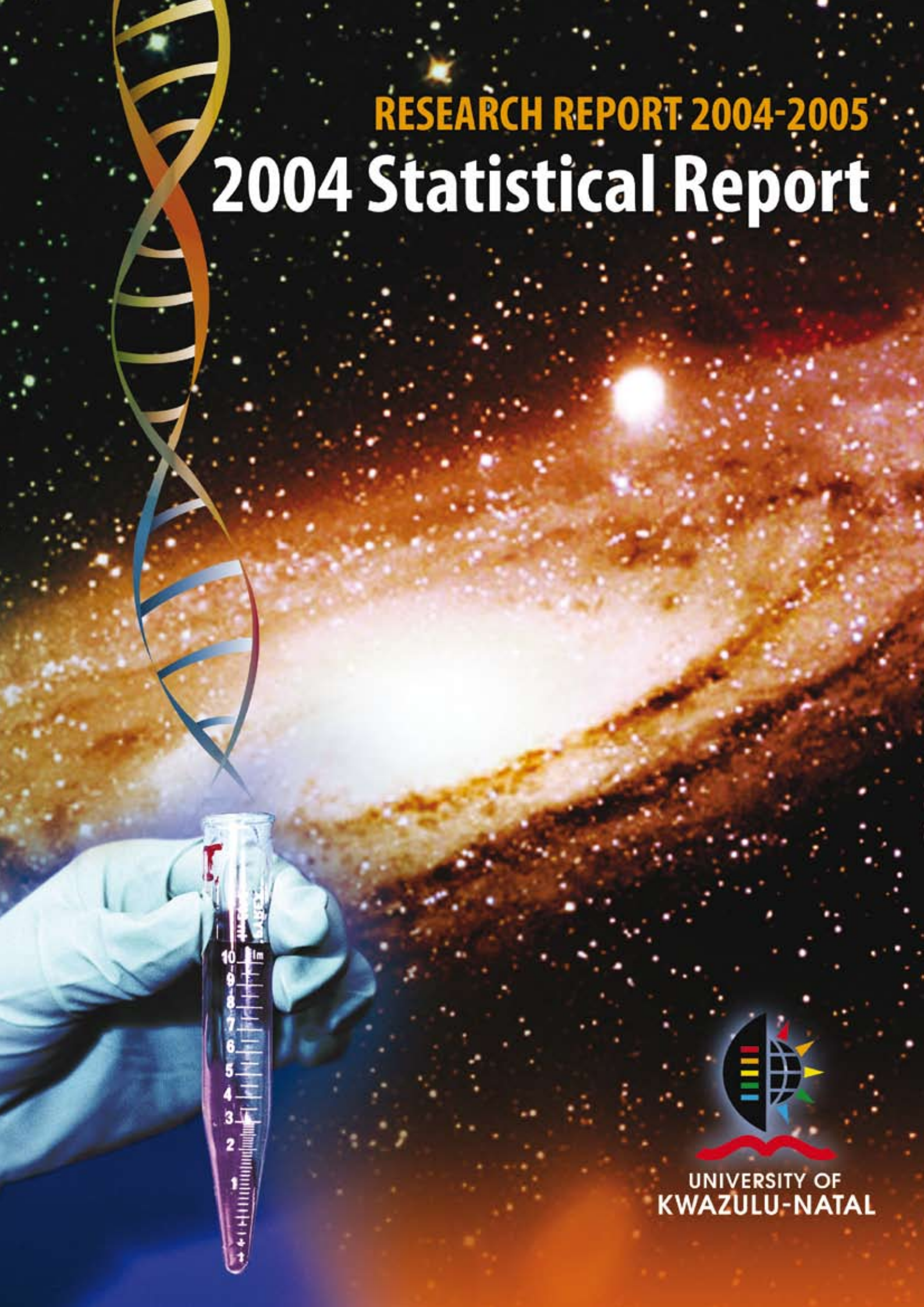


RESEARCH REPORT 2004-2005

2004 Statistical Report



**UNIVERSITY OF
KWAZULU-NATAL**

RESEARCH REPORT 2004-2005

2004 Statistical Report



UNIVERSITY OF
KWAZULU-NATAL

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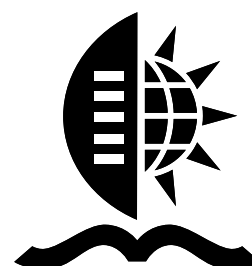
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RESEARCH REPORT 2004-2005

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TOP 30 RESEARCHERS



1. Prof J Van Staden
Botany & Zoology
Pietermaritzburg Campus



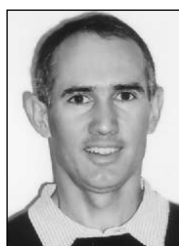
6. Dr RJ Haynes
Applied Environmental Science
Pietermaritzburg Campus



2. Prof J Moodley
Obstetrics & Gynaecology
Nelson R Mandela School of Medicine



7. Prof JAO Ojewole
Pharmacology
Westville Campus



3. Prof MA Henning
Maths, Stats & Information Technology
Pietermaritzburg Campus



8. Prof MR Perrin
Botany & Zoology
Pietermaritzburg Campus



4. Prof KG Tomaselli
Centre for Culture & Media Studies
Howard College Campus



9. Dr DA Mulholland
Pure & Applied Chemistry
Howard College Campus



5. Dr AL Gray
Pharmacology
Nelson R Mandela School of Medicine



10. Prof HK Xu
Mathematical Sciences
Westville Campus



11. Prof PG Leach
Maths, Stats & Information Technology
Howard College Campus



16. Prof JC Mubangizi
Law
Howard College Campus



12. Prof DJ Spurrett
Philosophy
Howard College Campus



17. Prof MA Kidd
Law
Pietermaritzburg Campus



13. Dr OQ Munro
Chemical & Physical Science
Pietermaritzburg Campus



18. Prof S Govender
Mechanical Engineering
Howard College Campus



14. Prof CT Downs
Botany & Zoology
Pietermaritzburg Campus



19. Prof MG Cowling
Law
Howard College Campus



15. Prof MJ Lawes
Botany & Zoology
Pietermaritzburg Campus



20. Dr SJ Collings
Psychology
Howard College Campus

TOP 30 RESEARCHERS Contd.



21. Dr M Rademeyer
Pure & Applied Chemistry
Howard College Campus



26. Prof P Denis
Theology
Pietermaritzburg Campus



22. Dr GO West
Theology
Pietermaritzburg Campus



27. Prof S Marschall
Governance
Westville Campus



23. Dr M Moodley
Obstetrics & Gynaecology
Nelson R Mandela School of Medicine



28. Dr RM Gous
Agric Science & Agribusiness
Pietermaritzburg Campus



24. Prof BG Lovegrove
Botany & Zoology
Pietermaritzburg Campus



29. Dr SD Johnson
Botany & Zoology
Pietermaritzburg Campus



25. Prof MC Lyne
Agric Science & Agribusiness
Pietermaritzburg Campus



30. Prof CA Buckley
Chemical Engineering
Howard College Campus

REVIEW OF OUTPUTS PRODUCED BY SHORT-TERM POST DOCTORAL FELLOWS (JOURNAL ARTICLES)

	Name	Published	In Press	Under Review	Submitted	In Preparation	Total
1	EB Farisani	3		1	3		7
2	BG Haddad	3					3
3	S Ige	2		2			4
4	M Taylor	5	1				6
5	W Meyer				3		3
6	N Mayaba	1		1			2
7	P Gianadda					3	3
8	PV Love	1			3	4	8
9	S Soobramoney	1	2	2			5
10	RM Edelstein				4		4
11	CS Rankhotha						0
12	S Frouisou	1	1	1			3
13	B Rodrigues	3	2		1	2	8
14	PN Hill	1			2		3
15	J Robertson				1	1	2
16	N Rivers-Moore				4	2	6
17	C Koorbanally				5	2	7
18	A Langlois		1			5	6
19	D Thompson				2	1	3
20	GD Arthur				1	1	2
21	SG Sparg		4		2		6
22	E Bloomfield						0
	TOTAL	21	11	7	31	21	91

The above reflects the total number of SAPSE journal articles produced by Short-term Post Doctoral Fellows for the period 2002-2004.

UKZN PROJECTS FUNDED THROUGH THE NRF – THRIP PROGRAMME IN 2004

INSTITUTION/PROJECT LEADER	SCHOOL	PROJECT TITLE
FACULTY OF ENGINEERING		
Howard College Campus		
Dr DR Arnold	Chemical Engineering	Activated carbon processes for colour removal
Mr CN Bezuidenhout		Soil compaction and sustainability
Prof CA Buckley	Chemical Engineering	Beneficiation of salts from effluents
Prof CA Buckley	Chemical Engineering	Phytoremediation
Prof M Carsky	Chemical Engineering	Clean coal technology
Dr IE Davidson	School of Electrical, Electronic & Computer Engineering	Spatial modeling of a PVFC generator
Prof RG Harley	School of Electrical, Electronic & Computer Engineering	Control/monitoring of machines, power electronics
Dr DA Hoch	School of Electrical, Electronic & Computer Engineering	Reliability of high voltage equipment
Prof NM Ijumba	Engineering	Centre for HVDC
Mr ALL Javis	School of Electrical, Electronic & Computer Engineering	Industrial tomography
Prof D Ramjugernath	School of Chemical Engineering	Phase equilibria measurement
Mr RR Rawatlal	School of Chemical Engineering	Hydrodynamics of bubble columns
Dr BS Rigby	School of Electrical, Electronic & Computer Engineering	Real-time simulation for power system stability
Prof F Takawira	School of Electrical, Electronic & Computer Engineering	IP-based wireless networks
Prof JC Smithers	School of Bioresources, Engineering & Environ. Hydrology	Modelling integrated sugarcane hydrology
FACULTY OF SCIENCE & AGRICULTURE		
Howard College Campus		
Dr HB Friedrich	Chemistry	Second generation oxidation catalysis
Dr D Jaganyi	Physics	Double bond isomerisation
Prof AH Wilson	Geological Sciences	Platinum in the eastern Bushveld Complex
Pietermaritzburg Campus		
Prof RM Gous	Agricultural Sciences & Agribusiness	Broiler breeder productivity
Dr MAE Kaunda	Mechanical Engineering	Nonlinear vibration research and testing centre
Dr A Mitchell	Biochemistry, Genetics and Microbiology	Genetic variation in sugarcane pests
Dr AT Modi	Agricultural Sciences & Agribusiness	Seed quality model
Mr R Sewsunker	Electric, Electronic & Computer & Agribusiness	Rural telecommunications solutions
Prof P Turner	Forestry & Forest Products Research Centre	South African wood fibre processing
Prof P Turner	Forestry & Forest Products Research Centre	Eucalyptus wood traits important to pulp mills

NRF THUTHUKA GRANTHOLDERS: 2004

NAME	PROGRAMME	FACULTY	PROJECT TITLE	UKZN AWARD	NRF AWARD
HOWARD COLLEGE CAMPUS					
Ncama Busisiwe Purity BP Mrs	RIT	CADD	Outcomes of an ICHC Model for PLHAs	R 35,000	R 31,000
Govender Saneshan S Prof	REDIBA	Engineering	Binary Alloy Solidification	R 40,000	R 151,000
Ramjugernath Detesh D Prof	REDIBA	Engineering	Phase Equilibria and Separation	R 115,000	R 190,000
Rawattal Randhir R Mr	REDIBA	Engineering	Applied Reactor Development	R 63,000	R 39,000
Verijenko Belinda B Dr	WIR	Engineering	Laser Coating	R 51,500	R 70,500
Magwaza Therjiwe TSC Dr	REDIBA	Human Sciences	Dealing with the aftermath of HIV	R 35,000	R 85,000
Naidoo Shamila S Ms	RIT	Human Sciences	Intrusive Stop Formation in Isizulu	R 23,200	R 15,000
Ruggunan Shaun SD Mr	RIT	Human Sciences	Global Labour Markets	R 23,000	R 38,000
Msweli-Mbanga Pumela P Dr	WIR	Management Studies	Extra-Role Performance	R 49,000	R 95,000
Debba Pravesh P Mr	RIT	Science	Designing Sampling Schemes	R 19,000	R 62,000
Koorbanally Neil N Dr	REDIBA	Science	Alkaloids from South African Plants	R 39,000	R 121,000
Lamb Jenny JM Dr	WIR	Science	Genetic Diversity -Endangered Trees	R 82,000	R 129,000
Malinga Sandile SB Dr	REDIBA	Science	Atmosphere/Ionosphere Dynamics	R 51,000	R 82,500
Moodley Brenda B Ms	RIT	Science	Reactions of Lignin	R 32,000	R 28,000
Moodley Kavilan K Dr	REDIBA	Science	Probing the Cosmic Perturbations	R 42,000	R 71,000
Rademeyer Melanie M Dr	WIR	Science	Organic-Inorganic Hybrids	R 63,000	R 62,000
Rodda Nicola NH Dr	WIR	Science	Seed Aging: Role of Lipid and Sugars	R 64,000	R 67,000
Total				R 826,700	R 1,337,000
EDGEWOOD CAMPUS					
Govender Nadaraj N Dr	RIT	Education	Teachers understanding of Earth	R 10,000	R 26,000
Hobden Sally SD Mrs	RIT	Education	Mathematics Literacy	R 20,500	R 28,800
James Angela AA Mrs	RIT	Education	Assessment in Grade 9	R 21,000	R 58,500
Maistry Murthi SM Mr	RIT	Education	A Case Study of Teacher Learning	R 9,600	R 15,000
Ntombela Sithabile S Ms	RIT	Education	Addressing Diversity in S.A. Schools	R 5,000	R 28,000
Parker Diane DC Ms	RIT	Education	Mathematics Teacher Education	R 19,400	R 21,000
Total				R 85,500	R 177,300

NRF THUTHUKA GRANTHOLDERS: 2004 (contd.)

NAME	PROGRAMME	FACULTY	PROJECT TITLE	UKZN AWARD	NRF AWARD
MEDICAL SCHOOL					
Myburg Rene RB Ms	RIT	Health Sciences	Mechanism of FB1 Toxicity in Humans	R 50,000	R 25,000
Moodley Preshmie P Dr	REDIBA	Health Sciences	Pelvic Inflammatory Disease and HIV	R 155,000	R 130,000
Mosam Anisa A Dr	WIR	Health Sciences	Management of HIV Kaposi Sarcoma	R 49,000	R 60,000
Naidoo Strini S Mr	RIT	Health Sciences	Proteases Regulate Angiogenesis	R 67,000	R 33,000
Total				R 321,000	R 248,000
PIETERMARITZBURG CAMPUS					
Baxter Veronica V Ms	RIT	Hum & Mngt Studies	Aesthetics of Educational Theatre	R 36,000	R 84,000
Mkhize Nhlanhla NJ Mr	REDIBA	Hum & Mngt Studies	Morality, Ethics, and the Self	R 40,000	R 84,000
Stobie Cheryl C Ms	RIT	Hum & Mngt Studies	Representing Bisexuality in SA Lit.	R 34,000	R 57,000
Stobie Melissa ML Ms	RIT	Hum & Mngt Studies	Reason and Emotion in Bioethics	R 19,000	R 22,500
Tshehla Samuel MS Mr	RIT	Hum & Mngt Studies	19th Century Sesotho Literature	R 29,000	R 40,500
Beukes Mervyn M Dr	REDIBA	Science & Agric	Antibiotic Resistance	R 135,000	R 134,000
Brown Nicola NIS Dr	WIR	Science & Agric	Waste Minimisation in Pmburg	R 12,000	R 59,000
Carlson Colleen CA Ms	RIT	Science & Agric	Optimising Cutting Production.	R 46,000	R 38,000
Chitja Joyce JM Ms	RIT	Science & Agric	Potential for Organic Agriculture	R 12,000	R 15,000
Fennell Catherine CW Dr	WIR	Science & Agric	Regulation of Flowering	R 22,000	R 40,400
Hancock Carolyn CE Mrs	RIT	Science & Agric	Student Difficulties with Genetics	R 12,000	R 44,000
Hendriks Sheryl SL Dr	WIR	Science & Agric	Food Security Coping Strategies	R 42,000	R 76,000
Makunga Nokwanda NP Ms	REDIBA	Science & Agric	Salvia and Maytenus Transformation	R 55,000	R 68,000
Modi Albert AT Dr	REDIBA	Science & Agric	Physiology of Cotyledonal Cracking	R 42,000	R 52,500
Total				R 536,400	R 814,900
WESTVILLE CAMPUS					
Bob Urmilla Dr	WIR	Health Sciences	Socio-Economic impact of Ecotourism	R 82,000	R 137,000
Deenadayalu Nirrnala Dr	WIR	Health Sciences	Thermodynamics of Liquid Mixtures	R 62,100	R 93,400
Hirilal Kaipana Dr	WIR	Humanities	Women and Empowerment	R 37,000	R 96,000
Mackraj Irene Dr	WIR	Science	Elucidating role of Angiotensin II	R 177,000	R 125,000
Moodley Legine Mrs	RIT	Science	Family-centred early Intervention	R 38,000	R 88,000
Naidoo Panjasaram Mrs	RIT	Science	HIV & Aids Management	R 61,500	R 173,000
Naidoo Yougashprey Dr	WIR	Science	Plant Secretory structures	R 0	R 10,000
Singh Nisha Dr	WIR	Science	Plant Biotechnology	R 67,500	R 92,000
Total				R 525,100	R 814,400
TOTAL UKZN				R 2,294,300	R 3,391,600

NRF EVALUATED RESEARCHERS 2004/5

NAME	SCHOOL	FACULTY	COLLEGE	RESEARCH SPECIALITIES	SYMBOL	RATING DEFINITION
Berjak, P Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Seed Science, Cell Biology, Biotechnology, Seed Physiology, Genetic Resources, Conservation	A	Leading international researcher
Chapman, MJF Prof	Literary Studies, Media and Creative Arts	Humanities, Development & Social Sciences	Humanities	Literary theory, South African literature, African literature, English, Literature, Culture, Comparative literary studies	A	"
Harley, RG Prof	Electrical, Electronic and Computer Engineering	Engineering	Agriculture, Engineering and Science	Control Of Power Systems And Machines, Power Electronics, Neural Networks, Electric Machines, Power Systems Dynamics, Neural Networks, Electrical Motor Drives	A	"
Walker, ADM Prof	Physics Agriculture	Science and Agriculture,	Engineering and Science	Magnetosphere, Space Plasmas, Radar, Magnetohydrodynamics, Radio Wave Propagation Theory	A	"
Adali, S Prof	Mechanical Engineering	Engineering	Agriculture, Engineering and Science	Composite Structures, Smart Materials and Structures, Materials, Design Optimisation	B	Internationally acclaimed researcher
Ballantine, CJ Prof	Music	Humanities, Development & Social Sciences	Humanities	Sociology of music, popular music studies, music in South Africa, (ethno-)musicology, western art music, music and ideology, music and resistance, music and identity, music and postcolonial studies, music and gender	B	"
Banasiak, J Prof	Mathematical Science	Science and Agriculture	Agriculture, Engineering and Science	Applied Analysis, Partial Differential Equations, Mathematical Physics, Mathematical Models and Methods for Applied Sciences	B	"
Beckett, RP Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Plant Stress Physiology, Lichenology, Bryology	B	"
Bharuth-Ram, K Prof	Physics	Science and Agriculture	Agriculture, Engineering and Science	Materials Science, Applied Nuclear Physics, Mossbauer Spectroscopy, Wide Bandgap Semiconductors, Nuclear Solid State Physics	B	"
Bharuthram, R Prof	Physics	Science and Agriculture	Agriculture, Engineering and Science	Theoretical Physics, Plasma Physics, Space Plasma Physics	B	"
Brown, DJB Prof	Language, Literary Studies and Linguistics	Humanities, Development & Social Sciences	Humanities	South African literary and cultural studies, Oral studies, Performance, Poetry, Media	B	"
Buckley, CA Prof	Chemical Engineering	Engineering	Agriculture, Engineering and Science	Cleaner production, industrial sustainability, life cycle assessment, membrane processes, waste minimisation, wastewater management, water management	B	"

NRF EVALUATED RESEARCHERS 2004/5 (contd.)

NAME	SCHOOL	FACULTY	COLLEGE	RESEARCH SPECIALITIES	SYMBOL	RATING DEFINITION
Coetzer, THT Prof	Biochemistry, Genetics and Microbiology	Science and Agriculture	Agriculture, Engineering and Science	Enzymology (Proteases), Protease Inhibitors, Veterinary Diagnostics, Trypanosomosis, Immunochemical Techniques, Protein/Protease Purification and Characterisation	B	Internationally acclaimed researcher
Collier, JD Prof	Philosophy and Ethics	Humanities, Development & Social Sciences	Humanities	Information Theory (Foundations), Statistical Mechanics (Foundations), Metaphysics and Epistemology, Evolution, Complexity theory, Philosophy of Biology, Cognitive Science, Systems Theory	B	"
Dankelmann, PA Prof	Mathematical Science	Science and Agriculture	Health Sciences	Graph Theory, Combinatorics	B	"
Denis, PMBR Prof	Religion and Theology	Humanities, Development & Social Sciences	Humanities	Oral History, History of Christianity in Southern Africa, History of Catholicism, History of the Reformation, Huguenot History, Child bereavement counselling, Children and AIDS	B	"
Diab, RD Prof	Environmental Science	Science and Agriculture	Agriculture, Engineering and Science	Climatology, Environmental Management, Atmospheric Chemistry	B	"
Draper, JA Prof	Religion and Theology	Humanities, Development & Social Sciences	Humanities	The Didache and Early Christianity, Judaism and Christian Origins, John's Gospel: Targum, Temple and Mystical Experience, Indigenous Responses to the Bible in S.A. in the Colonial Era, Orality, Literacy and the Mediation of Tradition, Ritual Theory in the Interpretation of Texts, Hermeneutics and Contextual Exegesis, The Jesus of History in Anthropological Perspective, Bishop John William Colenso of Natal, Qumran Studies	B	"
Eitelberg, E Prof	Electrical, Electronic and Computer Engineering	Engineering	Agriculture, Engineering and Science	Load sharing control, natural and positive law foundations of money and monetary value, control in power, pulp-and-paper, and chemical industries, control engineering, quantitative feedback design, multi-loop control, macro-economic monetary dynamics, numerical methods, iconoclastics, Control Theory, Control Systems, Numerical Analysis	B	"
Field, JS Prof	Chemistry	Science and Agriculture	Agriculture, Engineering and Science	Coordination Chemistry, X-Ray Diffraction, Electrochemistry	B	"
Gous, RM Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Poultry Science, Animal Nutrition, Simulation Modelling	B	"

NRF EVALUATED RESEARCHERS 2004/5 (contd.)

NAME	SCHOOL	FACULTY	COLLEGE	RESEARCH SPECIALITIES	SYMBOL	RATING DEFINITION
Gunner, L Prof	Language, Literary Studies and Linguistics	Humanities, Development & Social Sciences	Humanities	Oral Performance Studies - in Zulu and English, Gender Studies and African Languages, South African popular culture, African language radio and contemporary South African culture, South African literatures, African literatures	B	Internationally acclaimed researcher
Gutev, VG Prof	Mathematical Science	Science and Agriculture	Agriculture, Engineering and Science	Topology, General topology, Set theoretic topology, Multivalued analysis	B	"
Guy, JJ Prof	Anthropology, Gender and Historical Studies	Humanities, Development & Social Sciences	Humanities	History of KwaZulu-Natal, Historical Studies, Anthropology and History, Photographs and Visual History, Gender and History, Orality and Literacy, Imperial Studies, Environmental History, Traditional authorities and land issues, Heritage and Tourism	B	"
Hart, RC Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Ecology and biology of freshwater plankton - especially copepods and cladocerans, Secondary production processes (feeding, growth, respiration) in aquatic invertebrates, General limnology of standing waters - especially man-made and coastal lakes, Ecology and biology of Atyid shrimps - Caridina, Reservoir limnology and management, Eutrophication biology, aquatic food webs and bio-manipulation, Eco-physiology of aquatic organisms- both planktonic and benthic, Ecological energetics, Conservation and sustainable utilization of inland water ecosystems and their biological resources	B	"
Haynes, RJ Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Soil Biology/Fertility, Soil Organic Matter, Soil Quality	B	"
Hellberg, MA Prof	Physics	Science and Agriculture	Agriculture, Engineering and Science	Theoretical plasma physics, Waves and instabilities in plasmas, Multi-species plasmas, Non-Maxwellian plasmas, Space plasma physics, Dusty plasmas, Solitons and other nonlinear structures	B	"
Henning, MA Prof	Mathematical Science	Science and Agriculture	Agriculture, Engineering and Science	Graph Theory, Discrete Mathematics, Combinatorics	B	"
Hey, JD Prof	Physics	Science and Agriculture	Agriculture, Engineering and Science	Atoms & Molecules, Plasma Physics, Spectroscopy	B	"

NRF EVALUATED RESEARCHERS 2004/5 (contd.)

NAME	SCHOOL	FACULTY	COLLEGE	RESEARCH SPECIALITIES	SYMBOL	RATING DEFINITION
Johnson, SD Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Pollination Biology, Evolutionary Ecology, Speciation, Orchid Reproductive Biology, Mimicry, Conservation of Mutualisms, Insect Behaviour, Systematics, Breeding Systems, Cape Flora	B	Internationally acclaimed researcher
Leach, PGL Prof	Mathematical Science	Science and Agriculture	Agriculture, Engineering and Science	Classical and Quantum Mechanics, Differential Equations, Rational Epidemiology, Structural Chemistry, Mathematical Economics, Cosmology	B	"
Letcher, TM Prof	Chemistry	Science and Agriculture	Agriculture, Engineering and Science	Physical Chemistry, Chemical Thermodynamics, Environmental Modelling	B	"
Lovegrove, BG Prof	Biological and Conservational Sciences	Science and Agriculture and Science	Agriculture, Engineering	Evolutionary physiology, Evolution, Vetebrate physiology, Climate variability	B	"
Maharaj, SD Prof	Mathematical Science	Science and Agriculture	Agriculture, Engineering and Science	Relativity, Astrophysics, Cosmology	B	"
McQuoid-Mason, DJ Prof	Law	Law	Law and Management Studies	Legal Aid and Access to Justice, Street Law - Law Related Education, Legal Education, Law and Medical Practice, Law of Privacy, Consumer Law	B	"
Morrell, RG Prof	Education	Education	Humanities	Education, gender, masculinity, schooling, sexuality and reproductive health, Southern Africa	B	"
Mulholland, DA Prof	Chemistry	Science and Agriculture	Agriculture, Engineering and Science	Natural Products Chemistry	B	"
Ortmann, GF Prof	Agricultural Sciences and Agribusiness	Science and Agriculture	Agriculture, Engineering and Science	Farm Management, Agricultural Production Economics, Agribusiness, Agricultural Policy, Agricultural Development	B	"
Pammerter, NW Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Forest Physiology, Plant Ecophysiology, Plant Water Relations, Seed Physiology, Plant Stress Physiology, Photosynthesis, Applied Ecology	B	"
Perissinotto, R Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Aquatic Ecology, Plankton Dynamics, Antarctic/Southern Ocean, Zooplankton, Microalgae, Trophic Webs, Estuarine Ecology	B	"
Petrucione, F Prof	Physics	Science and Agriculture	Agriculture, Engineering and Science	Open Quantum Systems, Stochastic methods in Theoretical Physics, Monte Carlo methods in Theoretical Physics, Stochastic wave function methods, Decoherence, Complex systems, Turbulence and hydrodynamic fluctuations, Econophysics, Kinetic models in polymer physics and rheology	B	"

NRF EVALUATED RESEARCHERS 2004/5 (contd.)

NAME	SCHOOL	FACULTY	COLLEGE	RESEARCH SPECIALITIES	SYMBOL	RATING DEFINITION
Rafferty, JG Prof	Mathematical Science	Science and Agriculture	Agriculture, Engineering and Science	Algebra, Universal Algebra, Logic & Foundations	B	Internationally acclaimed researcher
Schulze, RE Prof	Bioresources Engineering and Environmental Hydrology	Science and Agriculture	Agriculture, Engineering and Science	Hydrologic Modelling, Hydrology, Integrated Water Resources Management, Climate Variability/ Climate Change	B	"
Swart, HC Prof	Mathematical Science	Science and Agriculture	Agriculture, Engineering and Science	Graph Theory, Combinatorics	B	"
Tomaselli, KG Prof	Literary Studies, Media and Creative Arts	Humanities, Development Sciences & Social	Humanities	Cultural Tourism, Semiotics / Visual Anthropology, Political Economy and Media Ownership	B	"
Van Staden, J Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Ethnobotany, Plant physiology, Plant tissue culture, Nature conservation, Tree breeding, Phycology (algae), Microbial physiology, Plant hormones, Seed physiology, Embryogenesis	B	"
Verijenko, VE Prof	Mechanical Engineering	Engineering	Agriculture, Engineering and Science	Manufacturing Processes, Composite Materials, Solid Mechanics, Computational Solid Mechanics, Smart Materials, Nano Materials, Design/Optimization, Finite Element Modelling, Structural Health Monitoring, Metallurgy	B	"
WARD, DM Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Conservation of natural resources, Plant ecology, Plant-herbivore interactions, Population biology of plants	B	"
West, GO Prof	Religion and Theology	Humanities, Development & Social Sciences	Humanities	Hermeneutics, indigenous knowledge systems, biblical studies, old testament, new testament, postmodernism	B	"
Wilson, AH Dr	Geological Sciences	Science and Agriculture	Agriculture, Engineering and Science	Economic Geology, Geochemistry, Petrology, Numerical Modelling	B	"
Xu, HK Prof	Mathematical Science	Science and Agriculture	Agriculture, Engineering and Science	Optimization, Nonlinear analysis, Nonlinear operators, Mathematical finance, Iterative methods, Fixed point theory, Differential equations, Stochastic analysis, Variational inequalities, Inverse and ill-posed problems	B	"
Alport, MJ Prof	Physics	Science and Agriculture	Agriculture, Engineering and Science	Image Analysis, Signal Processing	C	Established researcher

NRF EVALUATED RESEARCHERS 2004/5 (contd.)

NAME	SCHOOL	FACULTY	COLLEGE	RESEARCH SPECIALITIES	SYMBOL	RATING DEFINITION
Amory, AM Prof	Mathematical Science	Science and Agriculture	Agriculture, Engineering and Science	Educational Research, Educational Software, Education	C	Established researcher
Arriati, M Prof	Biochemistry	Science and Agriculture	Agriculture, Engineering and Science	Cationic Liposomes, Non-Viral Gene Transfer, Biochemistry, Medical Biochemistry, Molecular Biology	C	"
Armstrong, JY Prof	Language, Literary Studies and Linguistics	Humanities, Development & Social Sciences	Humanities	Ceramic Sculpture, Zulu Material Culture (Ceramics), Bone China and Porcelain, Gas Blowing, Contemporary English and American Ceramics, 18th Century Tin Glazed Earthenware, Contemporary South African Ceramics	C	"
Baboolal, D Prof	Mathematical Science	Science and Agriculture	Agriculture, Engineering and Science	Frames, Topology	C	"
Boje, ES Prof	Electrical, Electronic and Computer Engineering	Engineering	Agriculture, Engineering and Science	Control Engineering	C	"
Bright, G Prof	Mechanical Engineering	Engineering	Agriculture, Engineering and Science	Advanced Manufacturing Systems, Mechatronics, Robotics	C	"
Burnett, WA Dr	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Microalgae, biotechnology, bioremediation, ethnobotany, plant hormones, macroalgae (seaweeds)	C	"
Calder, IMS Prof	Centre for Visual Art	Literary Studies, Media and Creative Arts	Humanities	Indigenous Knowledge Systems in KwaZulu-Natal (Zulu pottery and ceramics), Visual Art: studio practices (specialisation in South African ceramics), South African Art History (art and material culture of KwaZulu-Natal), Indigenous material culture of KwaZulu-Natal (pottery and ceramics), South African studio ceramics (20th C history and studio practices), South African studio clays and glaze materials, Visual Arts education: Ceramics, Drawing and Design, Computer Graphics, South African Arts and Culture, South African Crafts and Design	C	"
Carsky, M Prof	Mechanical Engineering	Engineering	Agriculture, Engineering and Science	High temperature processes, Fluidisation, artificial intelligence, activated carbon	C	"
Cooke, JA Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Terrestrial Ecology, Ecotoxicology, Ecosystem Rehabilitation	C	"
Couling, VW Dr	Chemistry	Science and Agriculture	Agriculture, Engineering and Science	Molecular Electro-Optics, Optics & Lasers, Computational Physics	C	"

NRF EVALUATED RESEARCHERS 2004/5 (contd.)

NAME	SCHOOL	FACULTY	COLLEGE	RESEARCH SPECIALITIES	SYMBOL	RATING DEFINITION
Dale, AI Prof	Mathematical Science	Science and Agriculture	Agriculture, Engineering and Science	History of Statistics & Probability, Probability, Probability Theory, History of Statistics	C	Established researcher
Dangor, CM Prof	Pharmacy and Pharmacology	Health Sciences	Health Sciences	Boipharmaceutics, Pharmaceutics, Physical Pharmacy	C	"
De Kadt, E Prof	Literary Studies, Media and Creative Arts	Humanities, Development & Social Sciences	Humanities	South African sociolinguistics, Language and identities, Politeness theory, Language and gender, Black South African English, German sociolinguistics, Language shift, Cross-cultural pragmatics, Academic literacy	C	"
De Lange, OL Prof	Chemistry	Science and Agriculture	Agriculture, Engineering and Science	Gas Dynamics, Superconductors, Mathematical Physics	C	"
De Villiers, MD Prof	Science, Maths & Technology Education	Education	Humanities	Geometry Education, Dynamic Geometry, Learning and teaching proof, History and philosophy of math, Teaching modelling and applications of math, Mathematics Education, Geometry, Modelling, History/Philosophy of Math, Computer Technology in Math	C	"
Deacon, RA Dr	Education	Education	Humanities	Political philosophy, History of ideas, Curriculum theory, Rural education, Historiography, Philosophy of Education, Development studies, Gender studies, Military history, Social theory	C	"
Dennison, C Prof	Biochemistry, Genetics and Microbiology	Science and Agriculture	Agriculture, Engineering and Science	Biochemistry, Enzymology, Cell Biology, Immunology (Basic)	C	"
Dimitriu, I Dr	Literary Studies, Media and Creative Arts	Humanities, Development & Social Sciences	Humanities	English literature, South African literature, translation studies, comparative literature	C	"
Downs CT Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Ecology, Science education, Eco-physiology, Conservation of natural resources, Conservation	C	"
Doyle, TB Prof	Physics	Science and Agriculture	Agriculture, Engineering and Science	Superconductivity, Magnetic Properties of Matter, Materials Science & Technology, Plasma Physics	C	"
Durrheim K Prof	Language, Literary Studies and Linguistics	Humanities, Development & Social Sciences	Humanities	Attitudes, Discourse, Racism, Segregation, Identity, Selfhood, Measurement	C	"
Elliot, E Dr	Biochemistry, Genetics and Microbiology	Science and Agriculture	Agriculture, Engineering and Science	Biochemistry, Cell Biology, Immunology (Basic), Microbiology, Immunocytochemistry, Tissue Culture, Signal Transduction	C	"

NRF EVALUATED RESEARCHERS 2004/5 (contd.)

NAME	SCHOOL	FACULTY	COLLEGE	RESEARCH SPECIALITIES	SYMBOL	RATING DEFINITION
Frescura, F Prof	Physics	Science and Agriculture	Agriculture, Engineering and Science	Architecture, Vernacular Architecture, Art and Architectural History, Archaeology, South African History, Development Studies, Housing, Gender Studies, Human Geography, Traditional Knowledge Systems	C	Established researcher
Friedrich, HB Dr	Chemistry	Science and Agriculture	Agriculture, Engineering and Science	Catalysis, organometallics, coordination chemistry	C	"
Govinder, KS Dr	Mathematical Science	Science and Agriculture	Agriculture, Engineering and Science	Differential Equations, General Relativity, Cosmology, Mathematical Physics, Ecological Modeling	C	"
Gqaleni, N Dr	Physiotherapy, Sport Science and Optometry	Health Sciences	Health Sciences	Applied Microbiology, Environmental Health, Toxicology, Indigenous Knowledge Systems, Biochemistry, Biotechnology	C	"
Green, JM Prof	Agricultural Sciences and Agribusiness	Science and Agriculture	Agriculture, Engineering and Science	Energy applications, Income generation, entrepreneurship, Community Tourism, Housing, Community Development, Curriculum development, Women's empowerment	C	"
Gwele, NS Prof	Nursing	Health Sciences	Health Sciences	Nursing Science, Education	C	"
Hamer, ML Dr	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Biodiversity, Invertebrates, Biogeography, Conservation, Systematics, Management, Conservation of natural resources	C	"
Harris, GT Prof	Economics and Finance	Management Studies	Law and Management Studies	Development Studies, Economics, Political Sciences & Public Policy, Education	C	"
Hughes, JC Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Rehabilitation, Composting, Archaeology, Pedology, Soil science, Waste management, Mineralogy	C	"
Hughes, ARW Prof	Physics	Science and Agriculture	Agriculture, Engineering and Science	Geospace Physics, Solar-Terrestrial Physics, VLF radio wave propagation, Wave-particle interactions, Sprites, Whistlers, magnetosphere, geomagnetic pulsations, aurora	C	"
Iji, PA Dr	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Animal nutrition, Poultry science, Digestive physiology, Animal production	C	"
Jaganyi, D Dr	Chemistry	Science and Agriculture	Agriculture, Engineering and Science	Environmental Chemistry, Food Chemistry, Physical Chemistry, Kinetics Study of Metal Complexes	C	"
Jonnalagadda SB Prof	Chemistry	Science and Agriculture	Agriculture, Engineering and Science	Simulations, oxidative degradation, environmental chemistry, environmental impact, heterogeneous and homogeneous catalysis, elemental distribution, pollution and vegetation, effluent treatment, ozone, Kinetics	C	"

NRF EVALUATED RESEARCHERS 2004/5 (contd.)

NAME	SCHOOL	FACULTY	COLLEGE	RESEARCH SPECIALITIES	SYMBOL	RATING DEFINITION
Koopman, A Prof	Literary Studies, Media and Creative Arts	Humanities, Development & Social Sciences	Humanities	Poetry of BW Vilakazi, Sociolinguistics Language Change & Contact, Zulu Morphology & Semantics, Onomastics (Names Studies), Zulu Oral Poetry	C	Established researcher
Kvalsvig, JD Dr	Psychology	Humanities, Development & Social Sciences	Humanities	Child Development Psychology	C	"
Laing, MD Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Plant Pathology, Plant Disease Epidemiology, Biological Control, Chemical control, Vegetable Diseases, Biotechnology, Plant Breeding, Wastewater treatment	C	"
Lawes, MJ Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Conservation Biology, Forest Ecology, Behavioural Ecology, Biodiversity, Resource Ecology, Social Ecology, Primatology	C	"
Leeb-du Toit, JC Dr	Language, Literary Studies and Linguistics	Humanities, Development & Social Sciences	Humanities	South African art, Art from KwaZulu-Natal, Contemporary art in Africa, Dress/cloth in Southern Africa, South African craft and design(origins and current manifestations), 20th century art-western, 19th century art, Other western art (prehistory to the 18th century, Contemporary art theory and criticism, Popular culture (Western, African and South African)	C	"
Lyne, MC Prof	Agricultural Science and Agribusiness	Science and Agriculture	Agriculture, Engineering and Science	Agricultural Development, Institutional Economics, Land Tenure and Land Markets, Agricultural Credit and Credit Markets, Land Reform, Financial Products for Asset Redistribution, Equity-Share Schemes for Wealth Redistribution, Rural Markets and Growth Linkages, Linear Programming, Multivariate Analysis	C	"
Mace, RL Dr	Physics	Science and Agriculture	Agriculture, Engineering and Science	Plasma Physics, Space Plasma Physics	C	"
Maguire, GEM Dr	Chemistry	Science and Agriculture	Agriculture, Engineering and Science	Bioinorganic chemistry	C	"
Maharaj, B Prof	Environmental Science	Science and Agriculture	Agriculture, Engineering and Science	Urban, politics, migration, public policy	C	"
Martincigh, BS Prof	Chemistry	Science and Agriculture	Agriculture, Engineering and Science	Physical chemistry, Environmental chemistry, Photochemistry	C	"
McCourt, S Prof	Geological Sciences	Science and Agriculture	Agriculture, Engineering and Science	Tectonics, African Geology, Precambrian Crustal Evolution, Archaean Tectonics, Structural Geology	C	"

NRF EVALUATED RESEARCHERS 2004/5 (contd.)

NAME	SCHOOL	FACULTY	COLLEGE	RESEARCH SPECIALITIES	SYMBOL	RATING DEFINITION
Munro, OQ Prof	Chemistry	Science and Agriculture	Agriculture, Engineering and Science	Bioinorganic chemistry, X-ray crystallography, Molecular simulations of bioinorganic and bioorganic compounds, Computer program development for chemical simulations, NMR, IR, and electronic spectroscopy, EPR and Mossbauer spectroscopy of iron porphyrins, Inorganic synthesis, Ligand design	C	Established researcher
NG, SA Dr	Mathematical Science	Science and Agriculture	Agriculture, Engineering and Science	Banach Space Model Theory, Nonstandard Analysis, Mathematical Finance, White Noise Analysis, Stochastic Processes	C	"
Nsahlai, IV Dr	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Animal Nutrition, Animal Physiology	C	"
Peddemors, VM Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Behavioural Ecology, Ecotourism, Marine Mammalogy, Population Dynamics, Elasmobranch biology	C	"
Pegram, GGS Prof	Civil Engineering, Surveying & Construction	Engineering	Agriculture, Engineering and Science	Mathematical Modelling of Linear Systems, Hydrometeorology, Water Resources Reliability Engineering, Flood Risk Analysis, Hydraulics of Rivers, Unsteady Flow Hydraulic Modelling, Space-Time Modelling of Rainfields, Stochastic Modelling, Hydrological Forecasting	C	"
Perrin, MR Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Animal Ecology, Avian Biology, Conservation Biology	C	"
Pillay, B Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Water Quality, Biotechnology, Biosensors	C	"
Satyapal, KS Prof	Surgical Disciplines	Health Sciences	Health Sciences	Medical ethics, medical education, renal vasculature and transplantation, human anatomical variations, coronary vasculature and cardiac surgery, sympathetic nervous system and sympathectomy	C	"
Scott D Dr	Environmental Science	Science and Agriculture	Agriculture, Engineering and Science	Modernist urban and rural landscapes, Environmental policy and practice, Sustainable development	C	"
Slotow RH Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Biogeography, Behavioural Ecology, Conservation, Biodiversity	C	"
Smithers, JC Prof	Bioresources Engineering and Environmental Hydrology	Science and Agriculture	Agriculture, Engineering and Science	Design and engineering hydrology	C	"
Stiebel, EA Prof	Literary Studies, Media and Creative Arts	Humanities, Development & Social Sciences	Humanities	South African literature, Post colonial theory, H. Rider Haggard, Literary Tourism, Historical mapping, Thomas Baines, Popular fiction, Early SA novel	C	"

NRF EVALUATED RESEARCHERS 2004/5 (contd.)

NAME	SCHOOL	FACULTY	COLLEGE	RESEARCH SPECIALITIES	SYMBOL	RATING DEFINITION
Taylor, M Dr	Maternal, Child and Women's Health	Health Sciences	Health Sciences	Health promotion, Epidemiology, Nutrition	C	Established researcher
Todes, AE Prof	Architecture, Planning and Housing	Humanities, Development & Social Sciences	Humanities	Urban development, Gender and development, urbanisation and migration, Integrated development planning, Settlement dynamics, Regional restructuring, planning education, Regional development, Urban spatial change, integrated area development	C	"
Uken, R Dr	Geological Sciences	Science and Agriculture	Agriculture, Engineering and Science	Coastal and Marine Geology, Bushveld Complex, Heavy mineral sands	C	"
Uys, LR Dr	Nursing	Health Sciences	Health Sciences	Higher education for nurses, Psychosocial rehabilitation, Health systems	C	"
Van Den Berg, JE Prof	Mathematical Science	Science and Agriculture	Agriculture, Engineering and Science	Ring theory	C	"
Watt, MP Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Forestry, Plant Biotechnology, Plant Physiology, Propagation, Tissue culture	C	"
Zwolinski, J Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Forest management, Silviculture	C	"
Bower, JP Prof	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Fruit Quality, Citrus/Avocado, Ethnobotany	L	Late entrant into research
De Lange N Dr	Education	Education	Humanities	Tourette's Syndrome, Termination of Pregnancy, Identities, HIV/AIDS	L	"
Nicholas, A Dr	Biological and Conservational Sciences	Science and Agriculture	Agriculture, Engineering and Science	Plant Systematics, African Botany, Taxonomy, Systematics of the Gentianales	L	"
Pillay, M Dr	Maternal, Child and Women's Health	Health Sciences	Health Sciences	DNA fingerprinting of Mycobacterium tuberculosis, Epidemiology of tuberculosis, Tuberculosis in prison, Multi-drug resistant Mycobacterium tuberculosis, Nosocomial transmission of tuberculosis	L	"
Posel, D Dr	Economics and Finance	Management Studies	Law and Management Studies	Labour economics, Migration, Development Economics, Household survey Methodology.	P	NRF President's Awardee
Cress, CM Dr	Physics	Science and Agriculture	Agriculture, Engineering and Science	Cosmology, Galaxies	P	"
Spurrett, DJ Dr	Philosophy and Ethics	Humanities, Development & Social Sciences	Humanities	Philosophy of Science, cognitive science, cognitive development, distributed cognition, human computer interaction	P	"

NRF EVALUATED RESEARCHERS 2004/5 (contd.)

NAME	SCHOOL	FACULTY	COLLEGE	RESEARCH SPECIALITIES	SYMBOL	RATING DEFINITION
Davidson, IE Dr	Electrical, Electronic and Computer Engineering	Engineering	Agriculture, Engineering and Science	Electric Machinery Design, Electromagnetic Analysis, Electrical Power Generation, Electrical Power Transmission, Electrical Power Distribution	Y	Promising young researcher
Essack, SY Prof	Pharmacy and Pharmacology	Health Sciences	Health Sciences	Antibiotic Resistance Surveillance, Molecular Epidemiology of Infectious Diseases, Risk Factors in Antibiotic Resistance, Impact of Antibiotic Pharma- cokinetics and Pharmacodynamics on Resistance, Strategies for the Prevention and Containment of Antibiotic Resistance, Infection Control, Antibiotic Resistant Gene Identification and Sequencing, Bacterial Strain Typing, Pharmaco-Economics, Impact of Antibiotic use on Resistance	Y	"
GOVENDER, T PROF	Pharmacy and Pharmacology	Health Sciences	Health Sciences	Oral Mucosae, Mucoadhesion, Thermo- dynamics, Pharmaceutical Analysis, Novel Drug Delivery Systems, Pharmaceutics, Polymer Science	Y	"
Govender, M Dr	Mathematical Sciences	Science and Agriculture	Agriculture, Engineering and Science	Astrophysics, Cosmology, Relativity	Y	"
Pillay, SR Dr	Physics	Science and Agriculture	Agriculture, Engineering and Science	Dusty Plasma Physics, Space Plasma Physics, Waves and Instabilities, Nonlinear Plasma Physics	Y	"
Piper, LE Dr	Philosophy and Ethics	Humanities, Development & Social Sciences	Humanities	Political theory, ethnicity, nationalism, multiculturalism, Zulu nationalism, KwaZulu-Natal politics, South African politics	Y	"
Ramjugernath, D Prof	Chemical Engineering	Science and Agriculture	Agriculture, Engineering and Science	Thermodynamics, Phase Equilibria, Separation Technology	Y	"
Von Klemperer, CJ Dr	Mechanical Engineering	Engineering	Agriculture, Engineering and Science	Composite Materials, Environmental degradation, Alternative Energy sources, FRP Composite manufacture, Mathematical modelling, Engineering design, FEA, Bio Mechanics	Y	"

COMPETITIVE RESEARCH GRANTS: 2004

COLLEGE OF HUMANITIES	
FACULTY OF EDUCATION	
Dr ER Dempster	30,000.00
Prof R Vithal	23,221.00
Mrs S Bansilal	21,600.00
Mr D Francis	19,290.00
Prof M Christiansen	15,849.00
Mrs HB Banu	13,500.00
Ms PA Clarke	10,000.00
Dr D Bhana	10,000.00
Ms N de Lange	10,000.00
Mr EM Mqgwashu	10,000.00
Mrs M Govender	10,000.00
Prof O Bojuwoye	10,000.00
Mr NH Muribwathobo	10,000.00
Mrs V John	6,000.00
Mrs I Govender	5,000.00
Mr SP Ntenza	5,000.00
Mrs LP Singh	5,000.00
FACULTY OF HUMANITIES, DEVELOPMENT & SOCIAL SCIENCES	
Dr LA Hamilton	45,000.00
Prof I Petersen	45,000.00
Prof JA Smit	34,000.00
Dr ED Ward	25,000.00
Mrs EG Steinmeyer	17,000.00
Mr DT Neves	15,000.00
Prof JE Coullie	12,960.00
Mr D Mansfield	10,000.00
Prof I Filatova	10,000.00
Dr IS Meko	10,000.00
Dr JK Zeller	9,106.00
COLLEGE OF HEALTH SCIENCES	
FACULTY OF HEALTH SCIENCES	
Prof KS Satyapal	95,000.00
Dr T Govender	40,000.00
Prof CT Musabayane	30,000.00
Prof JAO Ojewole	30,000.00
Mrs LA Bester	20,000.00
Ms RWE Joubert	10,000.00
Mrs SS Ramklass	7,000.00
NELSON R MANDELA SCHOOL OF MEDICINE	
Dr N Naidoo	20,000.00
Dr NR Naidoo	20,000.00
Ms K Pillay	20,000.00
COLLEGE OF AGRICULTURE, ENGINEERING & SCIENCE	
FACULTY OF ENGINEERING	
Prof R Bantcheva	41,100.00
Mr FN Okonta	35,000.00
Dr DIO Ikhu-Omoregbe	30,000.00
Mr V Krishandutt	10,000.00
Mr DP Ganga	9,000.00
Mr AL Jarvis	3,190.00

COMPETITIVE RESEARCH GRANTS: 2004 (contd.)

FACULTY OF SCIENCE & AGRICULTURE (cont)	
Prof M McPherson	103,221.00
Dr G Amery	100,000.00
Prof D Ward	80,060.00
Prof J Lin	72,000.00
Prof F Petrucionne	59,000.00
Dr AJ Smit	59,000.00
Prof FO Shode	57,000.00
Prof VM Peddemors	45,000.00
Prof G Naidoo	42,000.00
Prof DSB Jonnalagadda	40,921.00
Dr K Govender	40,000.00
Dr S Pillay	35,000.00
Dr T Samaai	35,000.00
Dr RL Mace	31,552.00
Dr PH Coombes	30,000.00
Prof DP McCracken	30,000.00
Dr JA Nevines	27,750.00
Dr H Xu	25,000.00
Ms GD Dawson	25,000.00
Dr VS Merhar	22,000.00
Ms SJ Grussendorff	20,000.00
Dr T Olckers	20,000.00
Mr S Singh	20,000.00
Dr FVA Southway-Ajulu	20,000.00
Dr BD Millstead	17,600.00
Mrs JA Houghton	15,400.00
Dr FR Smith	15,000.00
Prof SR Pillay	15,000.00
Dr Y Naidoo	14,000.00
Dr DJ Erwin	13,355.00
Prof K Liu	11,300.00
Prof R Arnab	10,000.00
Mr P Govender	10,000.00
Prof HK Xu	9,700.00
Prof JN Dunlevey	9,000.00
Dr P Sibanda	5,475.00
Mr T Mwabu	5,126.00
Mrs H Govender	5,000.00
Mr A Maharaj	1,000.00
COLLEGE OF LAW & MANAGEMENT STUDIES	
FACULTY OF LAW	
Prof JC Mubangizi	35,000.00
Ms S Singh	10,000.00
Miss A Singh	10,000.00
Dr C Lumina	5,000.00
FACULTY OF MANAGEMENT STUDIES	
Dr S Lubbe	30,000.00
Prof AG Frank	23,221.00
Ms DM Casale	21,080.00
Mr BC Mitchell	18,000.00
Mr CM Browne	16,500.00
Prof L Stainbank	10,694.00
Mrs BIM Edkins	10,000.00
TOTAL	2,253,771.00

EXPENSIVE CAPITAL EQUIPMENT: 2004

(BUDGET : R8 000 000)	TOTAL ALLOCATED	TOTAL APPROVED
COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE		
Faculty of Engineering - Howard College and Pietermaritzburg		631,000.00
Prof D Ramjugernath	200,000.00	
Prof D Stretch	100,000.00	
Prof AD Broadhurst	98,000.00	
Mr B Burton	70,000.00	
Mr A Forbes	59,000.00	
Dr B Verijenko	54,000.00	
Prof RE Schulze	50,000.00	
Faculty of Engineering - Westville		57,000.00
Prof M Carsky	57,000.00	
Faculty of Science and Agriculture - Pietermaritzburg		2,996,969.00
Prof OQ Munro	442,000.00	
Prof D Brothers	418,000.00	
Prof MD Laing	324,000.00	
Dr E Elliott	321,480.00	
Dr C Southway	290,065.00	
Prof PL Greenfield	238,900.00	
Dr AT Modi	226,404.00	
Dr RS Robinson	210,000.00	
Prof JP Bower	153,660.00	
Prof PJ Zacharias	90,060.00	
Mr L Els	83,493.00	
Mr CH Hunter	79,800.00	
Prof MJ Savage	66,000.00	
Prof RP Beckett	53,107.00	
Faculty of Science – Westville		618,964.00
Prof S McCourt	342,000.00	
Prof B Pillay	125,764.00	
Mr P Govender	91,200.00	
Dr Y Naidoo	60,000.00	
Faculty of Science – Howard College		1,853,935.00
Prof D Mulholland	923,935.00	
Prof B Martincigh	380,000.00	
Prof F Petruccione	300,000.00	
Dr V Merhar	250,000.00	
COLLEGE OF HEALTH SCIENCES		
Faculty of Health Sciences – Medical School		1,569,430.00
Dr T Naicker	1,000,000.00	
Prof RJ Pegoraro	383,040.00	
Dr R Naidoo	186,390.00	
COLLEGE OF HUMANITIES		
Faculty of Community and Development Disciplines – Howard College		239,400.00
Mrs G Porter	239,400.00	
Faculty of Human Sciences – Howard College		154,252.00
Prof DD Brubeck	95,000.00	
Mr AJ Ryan	59,252.00	
Faculty of Human & Mng Sciences – Pietermaritzburg		85,965.00
Ms BJ Heath	85,965.00	
FINAL TOTAL ALLOCATED		8,206,915.00
A total of 44 items of equipment was funded by the Research Office.		

RESEARCH GRANTS & CONTRACTS 2004 (MORE THAN R100 000)

RESEARCHER	PROJECT TITLE	FUNDER	AMOUNT RECEIVED
COLLEGE OF AGRICULTURE, ENGINEERING & SCIENCE			
Faculty of Engineering - Howard College & Pietermaritzburg Campuses			
Dr GPW Jewitt	An investigation and formulation of methods and guidelines for the licensing of SFRA's with particular reference to low flows.	Water Research Commission	3,800,000
Dr JC Smithers	A synthesis and encapsulation of hydrological research findings into a DSS for application at operational/planning level.	Water Research Commission	2,596,000
Mr SA Mc Donald	Positional Communications Project – Personal Communication system.	Armcor	837,763
Dr MAE Kaunda	Vibration damper testing of overhead transmission lines. TSI Division	Eskom Enterprises (Pty) Ltd	570,000
Prof RE Schulze	The development of an interactive, updated and updatable, extended Atlas of South African agrohydrology and agroclimatology.	Water Research Commission	546,000
Dr GPW Jewitt	Smallholder Systems Innovations in Intergrated Watershed Management (SSI).	UNESCO-IHE Institute for Water Education	364,320
Prof CA Buckley	Removal of reactive dyes from dye liquor for the reuse of salt, water and energy.	Water Research Commission	272,600
Prof NI Ijumba	Eskom Tertiary Education Support Programme - Transmission & distribution engineering/Strategic technical capacity.	Eskom	250,000
Prof GGS Pegram	Soil moisture mapping from satellites.	Water Research Commission	223,212
Dr BS Rigby	Validation of models used in real time simulation.	Eskom Enterprises (Pty) Ltd TSI Division	205,200
Prof CA Buckley	To determine the status of the use and knowledge of cleaner production techniques in the mining industry, both locally & internationally.	Digby Wells & Associates (Pty) Ltd	182,400
Prof CA Buckley	Anaerobic digestion for the treatment of toxic and high strength organic wastes: A case study in eThekweni Municipality.	Water Research Commission	150,000
Prof CA Buckley	Cleaner production audits, implementation and training in the pulp and paper industry.	Susan Barclay CC	120,156
Prof MR Perrin	Building genetic forensic capacity to reduce South Africa's illegal trade.	University of Sheffield	2,597,892
Prof MD Laing	Funding request Cohort Four ACCI students – 2005.	Rockefeller Foundation	2,559,700
Prof MD Laing	African Center for Crop Improvement to enable the first cohort of African students to carry out PhD research in their home countries: Kenya, Malawi, Nigeria, Uganda and Zimbabwe.	Rockefeller Foundation	2,263,000
Dr TR Hill	Eco-system Health Centre of Excellence.	International Development Research Centre	1,296,270
Prof RJ Fincham	Profiling estuaries in integrated development planning.	Water Research Commission	1,220,000
Prof RJ Fincham	Support to develop a rural resource enterprise research program for development practitioners and policy makers in the Southern African region.	Ford Foundation	975,000
Dr SL Hendriks	Establishment of the African Centre for Food Security.	Ford Foundation	812,500
Dr CT Downs	Building human capacity to enhance research into the biological control of invasive alien plants in South Africa.	Agricultural Research Council	257,000

RESEARCH GRANTS & CONTRACTS 2004 (MORE THAN R100 000) (contd.)

RESEARCHER	PROJECT TITLE	FUNDER	AMOUNT RECEIVED
Faculty of Engineering - Howard College & Pietermaritzburg Campuses (contd.)			
Dr JPD Goldring	Identification and characterisation of the Plasmodium falciparum malarial protein kinases that have a critical role in malarial cellular regulation and progression of the malaria cell cycle.	Medical Research Council	217,500
Prof RJ Fincham	Developing a model for sustainable relationships for the management of a scarce natural resource.	Csir-Environtek	171,023
Dr CT Downs	To refine current reintroduction and captive breeding techniques.	World Wide Fund for Nature	170,739
Prof RM Gous	Govern obligations and rights in the conduct of the feeding trial of "Comparative Biotechnology efficacy of Bio-Mos vs. control in male and female broiler breeders".	Alltech (Pty) Ltd	167,000
Dr PB Tongoona	Cooperative relationship in the breeding of maize for improving nutrition using the low phytic acid characteristic.	The United States Department of Agriculture	149,500
Faculty of Science - Howard College Campus			
Prof DA Mulholland	Novel Drug Development Platform Project.	Medical Research Council	1,400,000
Dr R Uken	3 year research project on the Marine Geology of Coelacanth habitats.	South African Institute for Aquatic Biodiversity	328,360
Prof GG Garland	Developing sustainability indicators for coastal sensitivity mapping in Eastern and Southern Africa for application in integrated coastal management.	Western Indian Ocean Marine Sciences Association	315,525
Prof RD Diab	National Air Quality Management Programme.	CSIR-Environtek	192,455
Ms CG Oelofse	Assessment of the eThekweni Municipality's Environmental and Planning review processes.	eThekweni Municipality Develop. Planning Dept.	127,395
COLLEGE OF HEALTH SCIENCES			
Faculty of Health Sciences Nelson R Mandela School of Medicine			
Dr P Kiepiela	HIV Pathogenesis Program. Doris Duke Grant No: 20011032, Modification No. 2.	Massachusetts General Hospital	4,270,643
Prof M Adhikari	Developmental disabilities in a time of AIDS.	National Institute of Health	2,362,882
Prof EM Preston-Whyte	Second grant to support and continue the Node Grant Programme in HIV/AIDS.	Andrew W Mellon Foundation	2,100,000
Dr N Padayatchi	Tuberculosis Trial consortium – TBTC.	Columbia University	1,279,135
Miss AS Voce	Situational analysis: Maternal and neonatal health services.	Dept of Health	1,197,610
Prof HM Coovadia	CTL-mediated control-pediatric/adult C-Clade infection Grant # 5.	Massachusetts General Hospital	991,758
Dr P Kiepiela	Distinguished Clinical Scientist Award to support efforts in translational clinical research at the University of KwaZulu-Natal. Support for the Sinikithemba Cohort.	Massachusetts General Hospital	501,995
Prof Q Abdool Karim	International training program in epidemiology of AIDS - Prime Agreement No. 5.	Columbia University	595,198
Dr S Naidoo	Identifying and addressing the occupational health needs of women working in smallscale and emerging farms in KwaZulu-Natal, South Africa.	Sanpad	399,920
Prof CC Jinabhai	Can a school based intervention help to reduce abuse and gender violence against female learners in Kwa-Zulu Natal, South Africa?	Sanpad	360,000
Prof CC Jinabhai	Design & feasibility study: Pipeline 2004 Health.	Entidad Colaboradora de la Administracio'n International	192,320

RESEARCH GRANTS & CONTRACTS 2004 (MORE THAN R100 000) (contd.)

RESEARCHER	PROJECT TITLE	FUNDER	AMOUNT RECEIVED
COLLEGE OF HUMANITIES			
Faculty of Humanities, Development & Social Sciences - Howard College Campus			
Prof JD May	Population and Poverty Studies Program in the School of Development Studies. Renewal of a Population Studies Grant: September 2004 - September 2007.	Andrew W Mellon Foundation	4,020,000
Prof M Padayachee	Research Analysis and Skills Strengthening Programme.	Foundation for Human Rights	851,000
Prof AE Todes	Women, decentralisation and integrated development planning in South Africa.	International Development Research Centre	449,230
Prof SJ Collings	An analysis and factors associated with primary and secondary victimization in child rape: establishing a basis for victim empowerment and practical change policy.	Sanpad	360,000
Prof P Bond	Resolving South African energy contradictions: Global warming, carbon trading, economic development and equity.	Sanpad	355,050
Mr TT Xaba	Assess the current rural development policy framework in KwaZulu-Natal and to identify key strategic interventions.	Department of Traditional and Local Governmental Affairs	299,330
Prof AE Todes	Relationship between environment and planning in KwaZulu-Natal.	Planning and Development Commission	199,910
Mr IAK Valodia	Consolidation of studies and identification of economic opportunities in the clothing and related sub-sectors in Newcastle.	Department of Economic Affairs and Tourism (KZN)	178,034
Prof JD May	Monitoring and evaluation of land reform: Technical assistance for implementation support to the "Quality of Life" survey.	The World Bank Group	104,099
Pietermaritzburg Campus			
Dr DR Wassenaar	South African Research Training Initiative.	National Institute of Health	6,500,000
Prof PMBR Denis	Sinomlando Memory Box Programme.	Nelson Mandela Children's Fund	593,000
COLLEGE OF LAW AND MANAGEMENT STUDIES			
Faculty of Management Studies - Howard College Campus			
Mr SD Braimah	Support to International Partnerships against AIDS in Africa (SIPAA).	Action Aid Sipaa	1,511,587
Prof TKC Quinlan	The Policy II Project.	The Futures Group International Inc.	450,153
Prof AW Whiteside	HIV/AIDS, STD and Tuberculosis Programme.	Department of Health	417,299
Mr SG Hardman	A critical analysis of cross sector partnerships in SA - Do they work and are there identifiable patterns for good practice?	University of Cambridge	296,166
Prof AW Whiteside	HIV/AIDS and the public sector: Country studies on the Democratic Republic of the Congo, Ethiopia, Kenya and Zambia.	United Nations Economic Commission for Africa	245,574
Prof TKC Quinlan	Facilitation of an Anti Retroviral Treatment (ART) Programme.	Assmang Limited - Cato Ridge Works	165,360
Prof TKC Quinlan	HIV/AIDS, land reform and land-based livelihoods in 3 provinces in South Africa.	The Human Sciences Research Council	164,000
Prof K Bhowan	Short course training in marketing for Itala bank managers.	ITHALA Development Finance Corp LTD.	136,824
SUPPORT SECTIONS			
Prof AM Amory	Conversations to address gender bias in computer gaming.	Department of Arts, Culture, Science and Technology	1,132,000
Prof SS Abdool Karim	Protocol Chair for HIV Prevention Trial Network 035.	Family Health International	154,473

RESEARCH GRANTS & CONTRACTS 2004 (MORE THAN R100 000) (contd.)

RESEARCHER	PROJECT TITLE	FUNDER	AMOUNT RECEIVED
INSTITUTES AND CENTRES			
Prof SS Abdool Karim	Implement the Anti Retroviral Treatment (ART) roll out Programme in an integrated manner which addresses both prevention and treatment.	National Institute of Health	14,400,000
Prof SS Abdool Karim	A multi-centre study to evaluate an algorithm for the diagnosis of smear-negative tuberculosis in high HIV prevalence settings.	Bristol-Myers Squibb Company	4,648,112
Ms ML Salomon	Farmer Support Group as lead agent for the development of community-led initiatives in natural and cultural resource management in the Upper uThukela Region.	Maloti Drakensberg Transfrontier Project	3,127,000
Dr M Bennish	Vaginal microbicides for the prevention of HIV transmission.	Medical Research Council - UK	1,481,776
Dr M Bennish	Sub-Agreement - Prevention of Mother-to-child transmission of HIV in the Hlabisa District of SA.	Elisabeth Glaser Pediatric AIDS Foundation	1,425,333
Dr L Kany Kany	Micronutrients and enteric infections in African Children. Amendment No. 3 - U01 A158371-04.	New England Medical Center Hospitals	1,173,250
Ms WB Kubayi	Continued support for the Community Outreach Programme - Grant Number 1025-1953-1.	Ford Foundation	990,000
Prof SS Abdool Karim	International Training Program in Epidemiology of AIDS - 2004/2005 funding.	Columbia University	474,169
Dr MR Noah	Provide information on Research on High incidence areas - Provincial Survey of the Primary Schools prone to Road Safety Incidences.	KwaZulu Natal Department of Transport	332,435
Prof PM Zulu	Developing a Moral Charter for South Africa.	Moral Regeneration Movement	330,568
Ms ML Salomon	Promoting innovation in AIDS affected rural households: An Action research project in KZN.	International Food Policy Research Institute	269,654
Prof PM Zulu	Part of documentation work initiated during the IRDP phase and community-based participatory research programme conducted by or on behalf of University of Pretoria in KZN with funds from WKKF.	University of Pretoria	228,000
Prof PM Zulu	Developing a Written Policy Framework on street people within eThekweni Municipality	eThekweni Municipality - Economic Development Dept.	184,338

GRANTS EXCEEDING R500 000 FROM FUNDERS IN 2004

Funder	AMOUNT RECEIVED
National Institute of Health (NIH)	R 23,262,883
Water Research Commission	R 8,917,812
Andrew W Mellon Foundation	R 6,120,000
Massachusetts General Hospital (NIH grants)	R 5,765,396
Rockefeller Foundation	R 4,822,700
Bristol-Myers Squibb Company	R 4,648,112
Maloti Drakensberg Transfrontier Project	R 3,127,000
Ford Foundation	R 2,777,500
University of Sheffield	R 2,597,892
Columbia University (NIH grants)	R 2,348,502
International Development Research Centre	R 1,745,500
Medical Research Council	R 1,617,500
Department of Health	R 1,614,909
Action Aid Sipaa	R 1,511,587
Medical Research Council - UK	R 1,481,776
Sanpad	R 1,474,970
Elisabeth Glaser Pediatric AIDS Foundation	R 1,425,333
New England Medical Center Hospitals (NIH grants)	R 1,173,250
Department of Arts, Culture, Science and Technology	R 1,132,000
Eskom	R 1,025,200
Foundation for Human Rights	R 851,000
Armscor	R 837,763
Nelson Mandela Children's Fund	R 593,000

2004 DOCTORAL GRADUATES

COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE

FACULTY OF ENGINEERING

Doctor of Philosophy in Engineering

Bejide, Emmanuel Oluremi Thesis: Supervisor:	Electronic Engineering Combined turbo coding and interference rejection for DS-CDMA Prof F Takawira
Harris, Roger Allen Thesis: Supervisors:	Chemical Engineering Robust equipment for the measurement of vapour-liquid equilibrium at high temperatures and high pressures. Prof D Ramjugernath, Prof JD Raal and Prof TM Letcher
Morozov, Konstantin Evgenievich Thesis: Supervisor:	Mechanical Engineering Crashworthiness modelling of thin-walled composite structures Prof VE Verijenko
Naidoo, Paramespri Thesis: Supervisors:	Chemical Engineering High pressure vapour-liquid equilibrium studies Prof JD Raal and Prof D Ramjugernath
Rawatlal, Randhir Thesis: Supervisor:	Chemical Engineering Unsteady-state modelling of Ziegler-Natta catalyzed olefin polymerization reactor systems Prof M Starzak
Vadasz, Alisha Thesis: Supervisors:	Chemical Engineering Spatio-temporal dynamics of heterogeneously distributed populations Prof A S Gupthar and Prof M Carsky

FACULTY OF SCIENCE AND AGRICULTURE

Doctor of Philosophy

Addison, Pia Thesis: Supervisors:	Entomology Ant management in Western Cape vineyards Prof MJ Samways and Prof S Piper
Appleton, Margaret Rae Thesis: Supervisor:	Botany Micropropagation of <i>Hypoxis colchicifolia</i> Baker-a valuable medicinal plant Prof J van Staden
Calistru, Claudia Thesis: Supervisors:	Life and Environmental Sciences Some implications of associated mycoflora during hydrated storage of recalcitrant seeds of <i>Avicennia marina</i> (Forssk.) Vierh Prof P Berjak, Prof N Pammenter, Dr M McLean and Dr N Koorbanally
Carbutt, Clinton Thesis: Supervisors:	Botany Cape elements on high altitude corridor and edaphic islands Prof TJ Edwards and Prof RP Beckett
Chaisi, Mosa Thesis: Supervisor:	Mathematical and Statistical Sciences Anisotropic stars in general relativity Prof SD Maharaj
Dana, Pelisa Thesis: Supervisors:	Life and Environmental Sciences Effect of soil factors on parasitic nematodes of sugarcane in KwaZulu-Natal, South Africa Prof CC Appleton, Dr V Spaul and Dr P Cadet
Dixon, John Gordon Patrick Thesis: Supervisors:	Geological and Computer Sciences Archaeon geology of the Buffalo River gorge, KwaZulu-Natal Prof MK Watkeys and Prof PE Matthews

2004 DOCTORAL GRADUATES (contd.)

FACULTY OF SCIENCE AND AGRICULTURE - Doctor of Philosophy (contd.)	
Du Toit, Karen Thesis: Supervisors:	Pure and Applied Chemistry A phytochemical investigation of members of the hyacinthaceae family and biological screening of homoisoflavanones and structurally related compounds Prof D Mulholland and Prof SE Drewes
Fynn, Richard Warwick Sinclair Thesis: Supervisors:	Grassland Science Determinants of community composition and diversity in KwaZulu-Natal mesic grasslands Prof KP Kirkman, Prof TG O'Connor, Prof RJ Haynes and Mr CD Morris
Govender, Thavendran Thesis: Supervisor:	Pure and Applied Chemistry A study of chiral Pentacyclo-Undecane derived macrocycles and Ligands Prof HG Kruger
Hlongwa, Hector Nkosinathi Thesis: Supervisor:	Mathematical Sciences Regular closed frames and generalized proximities in frames Prof D Baboolal
Makunga, Nokwanda Pearl Thesis: Supervisors:	Botany Genetic transformation and micropropagation of <i>Thapsia garganica L.</i> - a medicinal plant. Prof J van Staden and Dr AK Jager
Moolla, Suleman Thesis: Supervisor:	Physics Nonlinear fluctuations in space plasmas Prof R Bharuthram
Naidoo, Richard Thesis: Supervisor:	Computer Science Modified numerical algorithms for hyperbolic systems with source terms and applications. Prof S Baboolal
Ntuli, Tobias Mzwele Thesis: Supervisors:	Life and Environmental Sciences Some effects of drying rate and wet storage on aspects of the physiology and biochemistry of embryonic axes from desiccation-sensitive seeds Prof P Berjak and Prof N Pammenter
Pillay, Nelishia Thesis: Supervisor:	Geological and Computer Sciences An investigation into the use of genetic programming for the induction of novice procedural programming solution algorithms in intelligent programming tutors Prof A Sartori-Angus
Suh, Niba Augustine Thesis: Supervisors:	Entomology Dragonfly assemblage dynamics and conservation at small reservoirs in KwaZulu-Natal, South Africa Prof S Piper and Prof MJ Samways
Tsoka, Joyce Mahlako Thesis: Supervisors:	Life and Environmental Sciences The effect of distance from clinics on maternal and child health (MCH) service utilisation and MCH status Dr D Scott and Prof G Solarsh
COLLEGE OF HUMANITIES	
FACULTY OF EDUCATION	
Doctor of Education	
Mudaly, Vomolan Thesis: Supervisor:	Education The Role and use of Sketchpad as a Modelling Tool in Secondary Schools Prof M de Villiers

2004 DOCTORAL GRADUATES (contd.)

FACULTY OF EDUCATION - Doctor of Education (contd.)	
Naidu, Sundrasagren Thesis: Supervisor:	Education Recognition of Prior Learning and assessment of adult learners: considerations for theory, policy and practice Prof M Samuel
Perumal, Krishnaveni Thesis: Supervisor:	Education Literacy in the Lives of Domestic Workers Prof R Sookrajh
Sulaiman, Afolasade Airat Thesis: Supervisor:	Education Self-Concept of Physically Disabled Adolescent Students in Inclusive Secondary Schools Prof O Bojuwoye
FACULTY OF HUMANITIES, DEVELOPMENT AND SOCIAL SCIENCES	
Doctor of Literature	
Cele, Nokuzoia Christina Thesis: Supervisor:	Zulu An Investigation into the Status of South African Sign Language and its Impact on the Deaf Learner Born to Zulu Speaking Parents. Prof PJ Zungu
Jones, Nicola Jane Cunningham Thesis: Supervisors:	South African Literature & Language In the public interest: News values, ethics and the need for a new focus in South African Journalism Prof JP Wade and Dr L Mitchell
Murugan, Ganas Thesis: Supervisors:	Tamil The Poetry of Subramania Bharatiar : its impact on the Language, Religion and Culture of the Tamils in South Africa Prof R Sitaram
Tra, Bi Goh Theodore Thesis: Supervisor:	South African Literature & Language The Psychodynamic Interpretation of Selected Gouro Tales including their first time recording into writing in the Gouro Language and Translation. Prof PJ Zungu
Turner, Noleen Sheila Patricia Thesis: Supervisor:	South African Literature & Language Oral Strategies for Conflict Expression and Articulation of Criticism in Zulu Social Discourse. Prof PJ Zungu
Doctor of Philosophy	
Akintola, Olagoke Olufikayo Thesis: Supervisor:	Gender Studies Home-Based Care: A gendered analysis of care-giving for people living with HIV/Aids in a semi-rural South African setting. Prof S Leclerc-Madlala
Amin, Ashraf Mohamed Fouad Mohamed Thesis: Supervisors:	Islamic Studies Imam Ibn Al-Jazari: His Contributions to the Discipline of the Recitation of the Qur'an and Impact on Later Scholars/Works Prof AFM Ebrahim and Prof SE Dangor
Amod, Farouk Thesis: Supervisor:	Islamic Studies Islam and the Aids Pandemic Prof AFM Ebrahim
De Jager, Neil Frederick Thesis: Supervisor:	Music Changing perspectives of Frederic Chopin's music: Gendered sensory politics, pianos and pianists' problems. Prof B Parker

2004 DOCTORAL GRADUATES (contd.)

FACULTY OF HUMANITIES, DEVELOPMENT AND SOCIAL SCIENCES - Doctor of Philosophy (contd.)

Gray, Debra Thesis: Supervisor:	Psychology Telling tales with ticks: A discursive investigation of the practice of completing a right-wing authoritarianism scale. Prof K Durrheim
Holder Rich, Cynthia Susan Thesis: Supervisor:	Theological Studies Freedom as development : A proposal for the Protestant Churches of Madagascar Dr S de Gruchy
Ingram, Everette Wayne Thesis: Supervisor:	Theology The peculiar judgement on God's people with special reference to the Book of Judges Prof HAJ Kruger
Ivala, Eunice Ndeto Thesis: Supervisor:	Media Studies The use of television broadcast-based distance education: A case study of Liberty Learning Channel programme Prof RE Teer-Tomaselli
Kiprianos, Joseph Majid Thesis: Supervisor:	Architecture The sacredness of space and its values in the Maronite church in Lebanon. A fusion between liturgy and place. Prof W Peters
Mwanahewa, Sango Amisi Thesis: Supervisor:	Philosophy Reasoning in practice: Foundation for understanding in a multi-cultural context Dr P Giddy
Naidoo, Samantha Thesis: Supervisor:	Graduate School of Business The Social Work Profession in South Africa: Quo Vadis? Prof MI Kasiram
Niba, Mercy Bi Thesis: Supervisor:	Community Resources HIV/AIDS communication-based interventions in Southern Africa: the value of implementation and evaluation methodologies of projects. Prof JM Green and Prof L Dalrymple
Ntuli, Siphon Cyril Thesis: Supervisor:	Social Policy From socio-political violence (1985-1997) to community and economic development: Analysis of Richmond, KwaZulu-Natal. A Pan-African centered perspective approach Prof EA Mantzaris
Okech, Roselyne Nywiri Thesis: Supervisor:	Tourism The social, economic and environmental impacts of ecotourism: Case studies of Amboseli National Park and Masai Mara National Reserve in Kenya Prof U Bob
Parle, Julie Thesis: Supervisor:	History States of mind: Mental illness and the quest for mental health in Natal and Zululand, 1868-1918 Dr CE Burns
Rajuli, Moses Benjamin Thesis: Supervisor:	Theological Studies A theology of the beast: a critical examination of the pastoral and missiological implications of ilobolo in the contemporary South African church - an evangelical perspective Prof MP Moila

2004 DOCTORAL GRADUATES (contd.)

FACULTY OF HUMANITIES, DEVELOPMENT AND SOCIAL SCIENCES - Doctor of Philosophy (contd.)	
Singh, Chandini Thesis: Supervisor:	Language, Literature and Cultural Studies Symbolism and Patterns of Tradition of South African Hindu Women of the New Millennium in the Greater Durban Area. Prof PJ Zungu
Tanga, Pius Tangwe Thesis: Supervisor:	Sociology Social Welfare Policy towards Female-headed Households in Cameroon Dr L-H Stears
Tjibeba, Hendrik Rudolf Thesis: Supervisor:	Religion & Social Transformation The History of the Rhenish Mission Society in Namibia with Particular Reference to the African Methodist Episcopal Church Schism (1946-1990). Prof JA Smit
Tudge, Rajie Thesis: Supervisor:	Sociology Gender Equality in the Higher Education Arena: a Public Policy Perspective Prof EA Mantzaris
Vawda, Mehmood Shahid Essop Thesis: Supervisors:	Anthropology Hidden Migration: Livelihoods, Identities and Citizenships: Malawians in the City of Durban Prof J McCarthy and Prof DP McCracken
Viranna, Jayananda Venketsamy Thesis: Supervisor:	Public Administration An analysis of poverty alleviation policies in the reconstruction and development of the Northern area of eThekweni Municipality: A strategic perspective. Dr D Sing
Wuriga, Rabson Thesis: Supervisor:	Philosophy Ideology, virtue and well-being: A critical examination of liberal democracy, particularly in Francis Fukuyama. Dr A Gouws
COLLEGE OF HEALTH SCIENCES	
FACULTY OF HEALTH SCIENCES	
Doctor of Philosophy	
de Oliveira, Tulio de Paiva Nazareth Andrade Thesis: Supervisors:	Virology Development of a bioinformatics system for HIV evolutionary analysis and HIV/AIDS treatment management Prof S Cassol and Prof A Smith
Hansraj, Rekha Thesis: Supervisor:	Optometry A Critical Assesment of Laser Assisted in Situ Keratomileusis Prof A O Oduntan
Kohi, Thecla Wankuru Thesis: Supervisor:	Nursing The effects of social support groups on concerns, coping mechanisms and quality of life of women with cervical cancer in Tanzania. Prof NS Gwele
Mahomed, Ismail Mall Thesis: Supervisor:	Pharmacology Some Pharmacological Properties of Harpagophytum Procumbens DC (Pedaliaceae) Secondary Root Extract Prof J A O Ojewole
Mipando, Mwapatsa Humble Christopher Thesis: Supervisors:	Physiology The mechanism of the selective inotropic and hypotensive effects of triterpenoids of plant origin. Prof L I Somova and Prof F O Shode

2004 DOCTORAL GRADUATES (contd.)

FACULTY OF HEALTH SCIENCES - Doctor of Philosophy (contd.)	
Rambiritch, Virendra Thesis: Supervisor:	Pharmacology Pharmacokinetics and pharmacodynamics of glibenclamide in type 2 diabetics Dr C Pillai
NELSON R MANDELA SCHOOL OF MEDICINE	
Doctor of Philosophy	
Palanee, Thesla Thesis: Supervisor:	Physiology The Possible Implications of Selected Fusarium Mycotoxins in the Aetiology of Brain Cancer. Prof AA Chuturgoon
Shadwell, Anthony Thesis: Supervisor:	Behavioral Medicine Stress and ill Health Associated with Fungi, Indoor Environmental Factors and Personal Factors in Hospitals Prof L Schlebusch
Vawda, Naseema Banu Mohamed Thesis: Supervisors:	Behavioral Medicine An Investigation into Perceived Stress, Coping Behaviour and Health Outcomes in Undergraduate Medical Students Prof L Schlebusch and Dr N Gqaleni
COLLEGE OF LAW AND MANAGEMENT STUDIES	
FACULTY OF COMMERCE AND MANAGEMENT SCIENCES	
Doctor of Administration	
Balkaran, Rishidaw Thesis: Supervisor:	Public Administration & Development Management A Study of the Impact of the KwaZulu-Natal Tourism Authority on the Hospitality Industry Prof S Moodley
Chetty, Subbiah Thesis: Supervisor:	Public Administration & Development Management An evaluation of the impact of the Performance and Development Management System on productivity in Telkom S.A.: A case study of the Technology and Network services in the Eastern Region Prof D Sing
Maharaj, Sonil Sooknunan Thesis: Supervisor:	Public Administration & Development Management A Strategic Review of the Quality Assurance Process for Health Services in Public Hospitals of the Province of KwaZulu-Natal. Prof D Sing
Mortimer, Nimrod Llewellyn Thesis: Supervisor:	Public Administration The Establishment and Development of a Performance Management System in the Local Government Sector in South Africa Prof PS Reddy
Nobin, Brain Edward Thesis: Supervisor:	Education An analysis of the theory and practice of leadership in education with a particular reference to superintendents of education (management) in the eThekweni region of the KwaZulu-Natal Department of Education Prof D Sing
Sarpong, Emmanuel Thesis: Supervisor:	Public Administration & Development Management An Investigation into the Management of Development Projects in the Eastern Cape Prof D Sing

2004 DOCTORAL GRADUATES (contd.)

FACULTY OF COMMERCE AND MANAGEMENT SCIENCES (contd.)

Doctor of Business Administration

<p>Dawood, Abdulla Kader</p> <p>Thesis:</p> <p>Supervisor:</p>	<p>Graduate School of Business</p> <p>The effectiveness of Merger between Two Financial Services Organization</p> <p>Prof E Thomson</p>
<p>Lushaba, Dugmore Simosezwe Simphiwe</p> <p>Thesis:</p> <p>Supervisor:</p>	<p>Graduate School of Business</p> <p>Towards a model for promotion of ethical business practices and values-based corporate governance</p> <p>Prof RG Taylor</p>
<p>Ramroop, Shaun</p> <p>Thesis:</p> <p>Supervisor:</p>	<p>Graduate School of Business</p> <p>Occupational Health and Safety in the eThekweni Municipality of South Africa: The Case for a Management Perspective</p> <p>Prof JJ McCarthy</p>

FACULTY OF LAW

Doctor Legum

<p>Eitelberg, Eduard</p> <p>Thesis:</p> <p>Supervisor:</p>	<p>Law</p> <p>Law of Money, Value and Payment</p> <p>Prof A O'Shea</p>
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BOOKS AND CHAPTERS IN BOOKS

COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE

Faculty of Science and Agriculture

- Bond, W.J., Geldenhuis, C.J., Everson, T.M., Everson, C.S. and Calvin, M.C. 2004.** Fire ecology characteristics of some important biomes of Sub-Saharan Africa, in *Wildland fire management handbook for Sub-Saharan Africa*. Global Fire Monitoring Centre: 11-26.
- Calvin, M.C., Van der Sijde, J.H.R., De Ronde, C., Engelbrecht, M.D., Everson, T.M. and Everson, C.S. 2004.** Fire protection planning regional integration and fire danger rating, in *Wildland fire management handbook for Sub-Saharan Africa*. Global Fire Monitoring Centre: 212-246.
- Crouch, N.R. and Edwards, T.J. 2004.** Ethnomedicinal (muthi) plant nurseries, in *Indigenous forests and woodlands in South Africa - policy, people and practice*. Pietermaritzburg: University of Kwazulu-Natal Press: 658-664.
- De Ronde, C., Everson, T.M. and Everson, C.S. 2004.** Fire management in rural areas and industrial forestry plantations, in *Wildland Fire Management Handbook for Sub-Saharan Africa*. Global Fire Monitoring Centre: 144-157.
- De Ronde, C., Trollope, W., Bailey, A.B., Brockett, B.H., Everson, T.M. and Everson, C.S. 2004.** Application of prescribed burning, in *Wildland fire management handbook for Sub-Saharan Africa*. Global Fire Monitoring Centre: 285-323.
- Ellery, W.N., Tooley, J., Bill, C., Dahlberg, A., Heinsohn, D., McKenzie, A. and Murphy, M. 2004.** Resource Use and Conflict in and Around Thukela Biosphere Reserve, in *Indigenous Forests and Woodlands in South Africa*. Pietermaritzburg: University of KwaZulu-Natal Press: 367-397.
- Everson, T.M. and Underwood, M.J. 2004.** Community forestry in South Africa: an overview, in *Indigenous forests and woodlands in South Africa - Policy, people and practice*. Pietermaritzburg: University of KwaZulu-Natal Press: 647-678.
- Everson, T.M., Everson, C. and Van Niekerk, W. 2004.** Agroforestry in rural farming systems - a case study from Drakensberg mountains of KwaZulu-Natal, in *Indigenous Forests and Woodlands in South Africa, Policy, People and Practice*. Pietermaritzburg: University of Natal Press: 650-658.
- Everson, T.M., Everson, C.S., De Ronde, C. and Trollope, W. 2004.** Regional fire management: objectives, practices and prescribed burning application, in *Wildland fire management handbook for Sub-Saharan Africa*. Freiburg: Global Fire Monitoring Centre: 115-143.
- Fairhurst, J., Ramutsindela, M. and Bob, U. 2004.** Social Movements, protest, and Resistance, in *Mapping Women, Making Politics: Feminist Perspectives on Political Geography*. New York: Routledge: 199-208.
- Freund, W.M., Maharaj, B. and Makhathini, M. 2004.** Political Interpretations, in *Urban Reconstruction in the Developing World - Learning through an international best practice*. Sandown: Heinemann: 145-152.
- Gerya, T.V., Uken, R., Reinhardt, J., Watkeys, M.K., Maresch, W.V. and Clarke, B.M. 2004.** "Cold" diapirs triggered by intrusion of the Bushveld Complex: Insight from two-dimensional numerical modeling, in *Gneiss Domes in Orogeny*. Colorado: Geological Society of America: 117-127.
- Jager, A.K., Van Staden, J., McGaw, L.J. and Grace, O.M. 2004.** Bioprospecting of Forest and Woodland Plant Species used in Zulu Traditional Medicine, in *Indigenous Forests and Woodlands in South Africa - Policy, People and Practice*. Pietermaritzburg: University of KwaZulu-Natal Press: 493-516.
- Kilburn, R.N. and Herbert, D.G. 2004.** *Field guide to the snails and slugs of eastern South Africa*. Pietermaritzburg: Natal Museum
- Lawes, M.J. and Obiri, J.F. 2004.** Community attitudes to forest management, in *Indigenous Forests and Woodlands in South Africa: Policy, People and Practice*. Pietermaritzburg: University of KwaZulu-Natal Press: 257-259.
- Lawes, M.J., Arendse, L., Lewis, F. and Eeley, H.A.C. 2004.** Principles, criteria, indicators and standards for sustainable forest management in South Africa, in *Indigenous Forests and Woodlands in South Africa: Policy, People and Practice*. Pietermaritzburg: University of KwaZulu-Natal Press: 99-101.
- Lawes, M.J., Eeley, H.A.C. and Sikhitha, M.E. 2004.** Sacred forests: a cultural refuge, in *Indigenous Forests and Woodlands in South Africa: Policy, People and Practice*. Pietermaritzburg: University of KwaZulu-Natal Press: 250-253.

- Lawes, M.J., Midgley, J.J. and Chapman, L.J. 2004.** South Africa's forests: the ecology and sustainable use of indigenous timber resources, in *Indigenous Forests and Woodlands in South Africa: Policy, People and Practice*. Pietermaritzburg: University of KwaZulu-Natal Press: 31-76.
- Lawes, M.J., Obiri, J.F. and Eeley, H.A.C. 2004.** The uses and value of indigenous forest resources in South Africa, in *Indigenous Forests and Woodlands in South Africa: Policy, People and Practice*. Pietermaritzburg: University of KwaZulu-Natal Press: 227-273.
- Lawes, M.J., Shackleton, C.M., Geach, B. and Eeley, H.A.C. 2004.** South Africa's forests and woodlands: recurring themes in integrating policy, people and practice, in *Indigenous Forests and Woodlands in South Africa: Policy, People and Practice*. Pietermaritzburg: University of KwaZulu-Natal Press: 815-831.
- Maharaj, B. 2004.** Land Reform Policy in Post-Apartheid in South Africa: The Elusive Quest for Social Justice, in *Geographies and Moralities: International Perspectives on Development, Justice and Place*. Oxford: Blackwell Publishing: 165-179.
- Maharaj, B. and Makhathini, M. 2004.** Historical and Political Context: Cator Manor, 1845-2002, in *Urban Reconstruction in the Developing World. Learning through an international best practice*. Sandown: Heinemann Publishers: 27-40.
- Mulqueeny, J. and Caister, K.F. 2004.** Sustainable Livelihoods, in *Urban Reconstruction in the Developing World - Learning through an international best practice*. Johannesburg: Heinemann: 260-284.
- Nel, E.L., Hill, T.R. and Eising, W. 2004.** Area based local economic development, in *Urban Reconstruction in the Developing World – Learning through an international best practice*. Sandown, Johannesburg: Heinemann: 347-372.
- Preston-Whyte, R.A. 2004.** The Beach as a Liminal Space, in *A Companion to Tourism*. Oxford: Blackwell Publishing: 349-359.
- Ripley, B.S. and Pammenter, N.W. 2004.** Physiological characteristics of coastal dune pioneer species from the Eastern Cape, South Africa, in relation to stress and disturbance, in *Coastal Dunes. Ecology and Conservation*. Berlin Heidelberg: Springer-Verlag: 137-154.
- White, R.M., Cocks, M., Herbert, D.G. and Hamer, M.L. 2004.** Traditional medicines from forest animals, in *Indigenous forests and woodlands in South Africa. Policy, people and practice*. Pietermaritzburg: University of KwaZulu-Natal Press: 474-477.

COLLEGE OF HUMANITIES

Faculty of Education

- Baatjes, I.G. and Mathe, K. 2004.** Adult basic education and social change in South Africa, 1994 to 2003, in *Changing Class: Education and Social Change in Post-Apartheid South Africa*. Cape Town: HSRC Press: 393-420.
- Gelmon, S., Sherman, S., Gaudet, M., Mitchell, C.J. and Trotter, K.A. 2004.** Institutionalizing Service-Learning Across the University: International Comparisons, in *New Perspectives in Service-Learning: Research to Advance the Field*. Greenwich: Information Age Publishing: 195-217.
- Harley, K.L. and Wedekind, V.R. 2004.** Political change, curriculum change and social formation, 1990 to 2002, in *Changing Class: Education and social change in post-apartheid South Africa*, edited by L. Chisholm. Cape Town & London: HSRC Press & Zed Books: 195-220.
- Ralfe, E.M. 2004.** Love Affair with My Isishweshwe, in *Not Just Any Dress Narratives of Memory, Body, and Identity*. New York: Peter Lang: 211-217.
- Vithal, R. 2004.** Methodological challenges for mathematics education from a critical perspective, in *Researching the Socio-political dimensions of mathematics education: issues of power in theory and methodology*. Kluwer Academic Publishers: 227-248.
- Weber, S. and Mitchell, C.A. 2004.** "Dress Stories", in *Not Just Any Dress*. New York: Peter Lang: 3-10.

Faculty of Humanities, Development and Social Sciences

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