

Last updated Mar 2024

CURRICULUM VITAE

Richard Mark Cowling

1.0 BIOGRAPHICAL SKETCH

1.1 Name Richard Mark Cowling

1.2 Qualifications BSc (Hons), PhD (UCT)

1.3 Address African Centre for Coastal Palaeoscience
 Department of Botany
 Nelson Mandela University
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 Port Elizabeth 6031, South Africa
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1.4 Birth 27 April 1955 in Eshowe, KwaZulu-Natal

1.5 Citizenship South African

1.6 Tertiary education

1978: BSc (Hons) *Cape Town*

1983: PhD *Cape Town*

1.7 Appointments

1978: Scientific Officer, University of Cape Town (UCT)

1983: Postdoctoral Fellow, Curtin University, Perth, Australia

1984: Senior Research Associate, University of Port Elizabeth

1986: Scientific Co-ordinator, CSIR National Programmes

1987: Lecturer in Botany, UCT

1991: Associate Professor in Botany, UCT

1992: Leslie Hill Professor of Plant Conservation and Director, Leslie Hill Institute for Plant Conservation, UCT

1999: Adjunct Professional Fellow, School of Environmental Biology, Curtin University, Perth

2000: Professor, Botany Department, University of Port Elizabeth (now Nelson Mandela University)

2000: Honorary Professor in Botany, UCT

2001-2005: Adjunct Professor, School of Environmental Biology, Curtin University, Perth

2002-2005: Scientific Advisor, Southern African Hotspots Program, Conservation International

2004-2008: Research Associate: CSIR: Natural Resources and Environment

2008-2015: Board Member: AfriCarbon: restoring degraded thicket and generating carbon credits

2012-2020: Distinguished Professor: Nelson Mandela University

2013-2017: Non-Executive Director: The Heights Tea Estate

2014-2015: Advisory Board Member: Spekboom Trading: Carbon-Community-Conservation

2015-2019: Director: Centre for African Coastal Palaeoscience, Nelson Mandela University

2020: Emeritus Distinguished Professor, Nelson Mandela University

2023: Extraordinary Professor, Stellenbosch University

1.8 Awards and honours

1974: Class Medal: Zoology II, UCT

1977: Distinction: Botany Honours, UCT

1983: CSIR Postdoctoral Grant

1983: Smuts Memorial Scholarship

1987: FRD President's Award for Outstanding Young Scientist

1989: Bremner Travel Grant

1991: FRD Evaluation, B rating
 1993: Bremner Travel Grant
 1993: Cape Times Centenary Award (Conservation)
 1993: Special Performance Award (UCT)
 1994: Pew Fellows Program Award (USA)
 1994: FRD Evaluation: B1 rating
 1994: Special Performance Award, UCT
 1995: Adjunct Senior Research Fellow in the School of Environmental Biology: Curtin University of Technology, Perth, Western Australia.
 1995: Special Performance Award, UCT
 1996: Special Performance Award, UCT
 1997: Elected President: International Society of Mediterranean Ecologists
 1998: NRF (FRD) Evaluation: A2 rating
 1998: Elected founding member: Academy of Science of South Africa
 1999: Special Performance Award, UCT
 2001: Compton Prize for best paper (1999) in *South African Journal of Botany*
 2003: Gold Medal Award: Wildlife and Environment Society of South Africa
 2003: NRF Evaluation: A2 rating
 2003: Silver Medal: South African Association of Botanists
 2003: Rouget et al (2003: *Biol Conserv* 112, 63-85) cited as New Hot Paper: Environment/Ecology (November) by ISI Essential Science Indicators
 2004: Flora Conservation Award: Botanical Society of South Africa
 2004: Distinguished Service Award: Society for Conservation Biology (USA)
 2005: C.A.P.E. Gold Award for Innovating Conservation
 2005: Buchu Award Gold: Cape St Francis Civic Association
 2006: Researcher of the Year: Nelson Mandela University
 2008: Elected Foreign Associate: National Academy of Sciences USA
 2008: Calibre Award for Excellent Community Service: Greater St Francis Bay Community
 2008: Pierce et al (2005: *Biol Conserv* 125, 441-458) awarded: *Biological Conservation: Most Cited Author* 2005-2008
 2009: NRF Evaluation: A1 rating
 2009: Gold Medal: South African Association for the Advancement of Science
 2009: Listed on ISIHighlyCited.com: among 250 most cited researchers in Ecology/Environment 1981-2005.
 2009: Special Award: CapeNature Gouritz Biodiversity Corridor
 2010: Rouget et al. (2005 *Conserv Biol* 20, 549-561) included in a Special Virtual Issue of *Conservation Biology* (Connections and Corridors) to celebrate the International Year of Biodiversity
 2011: Distinguished MEDECOS Fellow
 2011: Researcher of the Year: Nelson Mandela University
 2012: Fellow of the Ecological Society of America
 2014: Gold Medal: South African Association of Botanists
 2015: NRF A1 rating
 2015: Elected Fellow of the Royal Society of South Africa
 2016: Lifetime Conservation Achiever. Awarded by the Wildlife and Environment Society of South Africa
 2018: Marloth Medal: Royal Society of South Africa
 2020: Science Legend: Academy of Sciences of South Africa
 2021: NRF A1 rating
 2023: Science for Society Award: Academy of Sciences of South Africa

2.0 SCIENTIFIC SERVICE

2.1 Professional

AETFAT (Association of African Ecologists and Taxonomists) (lapsed)
 Ecological Society of America (lapsed)

International Association for Vegetation Science (lapsed)
 International Society of Mediterranean Ecologists (South African Representative: 1987 – 1991; President: 1997- 2000)
 South African Association of Botanists
 South African Institute of Ecologists and Environmental Scientists (Vice Chairman of Board 1987-1989) (lapsed)
 South African Society for Quaternary Research
 American Association of Conservation Biologists (lapsed)
 Member of Editorial Board, *S. African Journal of Environmental Law and Policy* (1994-2005)
 Member of Editorial Board, *Global Ecology & Biogeography* (1995-2005)
 Member of Editorial Board, *Plant Ecology* (1996-2005)
 Member of Editorial Advisory Board, *Encyclopaedia of Life Support Systems* (1996-1998)
 Member of Editorial Board, *Ecological Economics* (1999-2015)
 Member of Editorial Board, *South African Journal of Botany* (2000-2004; 2013-2016)
 International Board of Editors, *Oryx* (2002-2010)
 Member of Editorial Board, *Conservation Biology* (2003-2007)
 Member of the Editorial Board, *Ecology Letters* (2004-2007)
 Member of Editorial Board, *Diversity and Distributions* (2004-2010)
 Member of Editorial Board, *Annals of the Eastern Cape Museums* (2005-2012)
 Member of Editorial Panel: Zoological Society of London Conservation Science and Practice Series (Blackwell) (2005-14).
 Faculty of 1000: Evaluator for Biology Faculty (2005-2016)
 Editor-in-Chief, *Conservation Letters* (2007-2012)
 Member of Publications Committee, Society for Conservation Biology (2007-2012)

Member of the Editorial Board, *Peer-J* (2012-)
 Member of the Editorial Board, *Philosophical Transactions of the Royal Society B* (2013-2016)
 Member of the Editorial Board, *Transactions of the Royal Society of South Africa* (2020-)

2.2 Science and academic committees

Fynbos Biome Project Steering Committee. FRD:CSIR (1986-1989)
 Karoo Biome Project Steering Committee. FRD:CSIR (1986-1989)
 Endangered Plants Group Steering Committee. FRD:CSIR (1986-1989)
 Science for Democracy (Founding member) (1987-1991)
 Academics Association, University of Cape Town (1987-1989)
 Group for Research Related to Agriculture (UCT) (1988-1990)
 Wildflower Working Group: (FRD) (1987-1991)
 Arid Lands Forum (FRD) Executive (1991-1992)
 Fynbos Forum (FRD) Executive (1991-1993)
 University Development Programme: FRD (University of the Western Cape) (1991-1993)
 Management Advisory Committee (MAC): Cape Peninsula Protected Natural Environment (CPPNE) (1992-1996)
 Planning Subcommittee (MAC: CPPNE) (1992-1996)
 Scientific Subcommittee (MAC: CPPNE) (Chairman: 1992-1996)
 Building and Development Committee UCT: (1992-1993).
 FORESTEK: CSIR Catchment Management Systems for the Cape. Advisory Committee (1992-1995)
 Protea Atlas Project Steering Committee (UCT) (Chairman: 1992-1997)
 National Botanical Institute Conservation Biology Advisory Committee (1992-1995)
 Cape of Good Hope Nature Reserve Advisory Committee (1992-1998)
 South African Bird Atlas Project Steering Committee (1993-1994)
 National Botanical Institute: Scientific Advisory Committee (1993-1998)
 Ecological ombudsman for the ESKOM nuclear power station site at Groot Hagekraal and Thyspunt (1993 - 1998)
 Foundation for Research Development Core Programme Committee for Plant Sciences (1994-1997; Convener: 1997)
 Working for Water Project (Dept. Water Affairs & Forestry) Steering Committee (1994-1995)

Table Mountain and Peninsula Advisory Committee: (Vice Chairman: 1995-1997)
 Fynbos Forum (FRD) Subcommittee: Restructuring Cape Nature Conservation (Chairman 1996-1997)
 Table Mountain National Park Committee (1997-1998)
 Foresight Project of the Dept. Arts, Culture, Science & Technology: Chair: Biodiversity Sector (1998 - 1999)
 Technical Committee: GEF-funded Cape Action Plan for the Environment (CAPE) Project (1998 – 2000)
 Steering Committee (Western Cape): GEF-funded CAPE Project (1999 - 2000)
 Steering Committee (Eastern Cape): GEF-funded CAPE Project (1999 - 2000)
 IUCN-WCPTA Management Effectiveness Task Group (1999 - 2001)
 Strategic Bioregional Planning Committee: GEF-funded CAPE Project (2000)
 Strategy Implementation Committee: GEF-funded CAPE Project (2000)
 Forest Advisory Group: World Wide Fund International (2000-2002)
 Fire Network: GCTE-IGBP (2000-2002)
 One of 30 scientists worldwide involved in Conservation International's *Defying Nature's End*, an initiative to draw up an agenda of costed actions to address the ongoing extinction crisis (see *Science* 239, 2207-2208 (2000-2001))
 Steering Committee: GEF-funded Subtropical Thicket Ecosystem Planning (STEP) Project (2001-2004)
 Technical Committee: GEF-funded Subtropical Thicket Ecosystem Planning (STEP) Project (2001-2004)
 Working Group Member: Climate Change and Reserve Design. Centre for Applied Biodiversity Science: Conservation International: (2001-2003)
 Board Member: National Botanical Institute (2001-2004)
 Scientific Advisory Committee: National Botanical Institute: Chair (2001-2004)
 Madiba Bay Task Team: Special Committee of the University of Port Elizabeth (2001)
 Special Advisory Committee: Conservation International-funded Succulent Karoo Ecosystem Planning (SKEP) Project (2001-2002)
 Working Group Member: Reserve Design Software. Centre for Applied Biodiversity Science: Conservation International: (2002-2003)
 Specialist Advisor: Succulent Karoo Ecosystem Planning (SKEP) Project (2001-2003)
 Steering Committee Member: Building the Global System of Protected Areas. Centre for Applied Biodiversity Science: Conservation International (2002-2003)
 South African Workshop Stream Leader: "Building comprehensive protected area systems – gaps in the system." World Parks Congress 2003 (2002-2003)
 Member: Roster of Experts: Scientific and Technical Advisory Panel (STAP) for the Global Environment Facility (GEF): World Bank (2003-2008)
 Scientific Advisory Committee: Succulent Karoo Ecosystem Planning (SKEP) Project (2003-2005)
 Member: Technical Working Group: Succulent Karoo Ecosystem Planning (SKEP) Project (2003-2005)
 Member of Local Organizing Committee: GEF: STAP Workshop: Mainstreaming Biodiversity in Production Landscapes (2003-2004)
 Scientific Advisory Committee: Baviaanskloof Conservation Initiative (2004-2005)
 Scientific Advisory Committee: DWAF Eastern Cape Restoration Project (2004-2006)
 Member: DEA Eastern Cape Restoration Project (2005)
 Scientific Adviser and initiator: Klein Karoo Study Group (2005-2010)
 Member: DEA Subtropical Thicket Restoration Project Steering Committee (2006-)
 Chair: Large-scale planting subcommittee (2010-)
 Member: Capacity building subcommittee (2010-)
 Member: IUCN SSC Southern African Plant Specialist Group (2006-)
 Member: IUCN WCPA/SSC joint initiative on integration of conservation planning approaches (2006-2008)
 Strategic advisor: Restoration Research Group (2007-)
 Member: DWAF/WWF Kouga Riparian Rehabilitation Project Steering Committee (2007-2010)
 Trustee and strategic advisor: Living Lands (2007-2012)
 Chair: NRF Evaluation Panel: NRF/DST Centre of Excellence – Centre for Invasion Biology, University of Stellenbosch (2009)

Member: Academy of Sciences of South Africa Rapid Response Panel (2010-)
 Member: South African Environmental Observatory Network Advisory Board (2010-2013)
 Director and initiator: African Centre for Coastal Palaeoscience (2014-2020). Member (2020-)
 Cape Floristic Region Partnership Committee (2022-)

2.3 Civic committees

Kromme Trust Committee (1980 - 1983)
 Peak to Point Conservation Trust (1987-1990)
 Peninsula Mountain Forum: Chairperson of Steering Committee (1993)
 Kommetjie Environmental Action Group: Advisory Board (1993 - 1996)
 Friends of the Cape St Francis Nature Reserves: Ecological Adviser and Honorary Member (1993-2004)
 Cape of Good Hope Nature Reserve Conservation and Education Trust: Trustee (1993 -1997)
 Redhill Landowners Conservation Group: Honorary President (1993-1998)
 Flora Conservation Committee: Botanical Society of South Africa. (1993-2000 disbanded)
 Council of the Botanical Society of South Africa (1993 - 1999), Vice Chairperson (2014-15)
 Leslie Hill Succulent Karoo Trust: Trustee (1995 - 2000)
 Kouga Coast Biosphere Reserve Interim Steering Committee (1998 - 1999)
 Conservation Advisory Group: Flower Valley Farm (2000-2001)
 Cape Conservation Unit (Botanical Society of South Africa): Strategic Advisor and Chairman of the Advisory Committee (2000-2003)
 Cape St Francis Ratepayers Association: Vice Chair and Environment Portfolio representative (2001-2003)
 St Francis Conservancy Steering Committee (2003-2008)
 Biodiversity Conservation Unit (Wildlife and Environment Society of South Africa): Strategic Advisor and Chairman of the Advisory Committee (2003-2006)
 Friends of the St Francis Nature Areas (F.O.S.T.E.R.): Chairperson (2004-)
 Huisklip Nature Reserve Advisory Board (2004-2007)
 Seal Point Lighthouse Advisory Committee (2005-2008)
 Friends of the Van Stadens Nature Reserve: Honorary President (2006-)
 Thyspunt Alliance (2010-)
 Conservation Committee: Botanical Society of South Africa: Chairperson (2014-15)
 Risk Reduction Committee: Kouga Municipality (2019-)

2.4 Review of primary research products

I review or process editorially on average 15-20 manuscripts per year until 2010 and thereafter ca. 5 per year. The journals for which I have provided this service are listed below:

<i>African Journal of Ecology</i>	<i>Conservation Letters</i>
<i>Annals of the Eastern Cape Museums</i>	<i>Conservation Science and Management</i>
<i>Annales Botanici Fennici</i>	<i>Development South Africa</i>
<i>American Journal of Botany</i>	<i>Diversity and Distributions</i>
<i>Austral Ecology</i>	<i>Ecography</i>
<i>Australian Journal of Botany</i>	<i>Ecological Applications</i>
<i>Australian Journal of Ecology</i>	<i>Ecological Economics</i>
<i>Biological Conservation</i>	<i>Ecology</i>
<i>Biological Journal of the Linnean Society</i>	<i>Ecology and Evolution</i>
<i>Biological Reviews</i>	<i>Ecology Letters</i>
<i>BioScience</i>	<i>Environmental Conservation</i>
<i>Bothalia</i>	<i>Environmental Science and Policy</i>
<i>Conservation Biology</i>	<i>Evolution</i>
<i>Conservation Ecology</i>	<i>Faculty of 1000: Ecology Section</i>
	<i>Global and Planetary Change</i>

<i>Global Ecology and Biogeography</i>	<i>PLoS (Biology)</i>
<i>International Journal of Wildland Fire</i>	<i>PLoS One</i>
<i>Journal of Applied Ecology</i>	<i>Proceedings of the National Academy of Sciences (USA)</i>
<i>Journal of Biogeography</i>	<i>Quaternary Science Reviews</i>
<i>Journal of BioSciences</i>	<i>Review of Palaeobotany and Palynology</i>
<i>Journal of Ecology</i>	<i>Science</i>
<i>Journal of Mediterranean Ecology</i>	<i>South African Journal of Botany</i>
<i>Journal of Vegetation Science</i>	<i>South African Journal of Grassland and Forage Science</i>
<i>Koedoe</i>	<i>South African Journal of Science</i>
<i>Molecular Phylogenetics and Evolution</i>	<i>South African Journal of Zoology</i>
<i>Nature: Scientific Reports</i>	<i>Systematic Biology</i>
<i>New Phytologist</i>	<i>Transactions of the Royal Society of South Africa</i>
<i>PeerJ</i>	<i>Vegetatio</i>
<i>Philosophical Transactions of the Royal Society B</i>	
<i>Plant Ecology</i>	
<i>Plant and Soil</i>	

2.5 Additional editorial responsibilities

In addition to serving on the editorial boards of several journals (see 2.1) I have also edited special editions/sections for journals. These are:

1. *Biodiversity and Conservation* (1996): Cape Peninsula – with IAW Macdonald;
2. *Ecological Economics* (1997): Valuation of fynbos ecosystem services – with R. Costanza;
3. *Plant Ecology* (1999): Ecology of Namaqualand – with KJ Esler and PW Rundel;
4. *Journal of Mediterranean Ecology* (2001) (invited papers for the 9th International Conference on Mediterranean Ecology): Mediterranean-type ecosystems: past, present and future – with DM Richardson and KJ Esler;
5. *Biological Conservation* (2003): special double issue on Conservation Planning for the Cape Floristic Region – with RL Pressey;
6. *South African Journal of Botany* (2003): issue in recognition of JPH Acocks' contribution to South African plant ecology – with MT Hoffman
7. *South African Journal of Botany* (2015): Biome boundaries – with AJ Potts and WJ Bond.

I have also edited/co-edited two book volumes. These are

Ecology of fynbos. Nutrients, fire and diversity. Oxford University Press 1992;

Vegetation of southern Africa (with DM Richardson and SM Pierce). Cambridge University Press 1997.

I was consulting editor for *Fynbos: ecology, evolution and conservation of a megadiverse region*, edited by Nicky Allsopp, Jonathan F. Colville and G. Anthony Verboom, Oxford University Press 2014.

2.6 Review of research proposals and personnel

I have reviewed research proposals for the following organisations:

Africa Responsible Tourism Awards	Cape Action for People and the Environment Project
Australian Research Council	Chilean National Science Prize in Natural Science
Australian Research Council: Strategic partnerships with Industry – Research and Training Scheme (SPIRT)	Critical Ecosystem Partnership Foundation
Banovich Wildscapes Foundation	CSIR: Natural Resources and the Environment
British Academy	Danish Research Foundation
British Ecological Society	Department of Arts, Culture, Science and Technology: Innovation Project
Critical Ecosystem Partnership Fund	Foundation for Research Development
Cambridge University Press (book proposals)	

Leverhulme Trust	Murdoch University
National Geographic Society	National Environmental Research Council (UK)
National Research Foundation	Netherlands Organization for Scientific Research
National Science Foundation (USA)	Oxford University Press (book proposals)
Oppenheimer Trust	Rufford Foundation (UK)
Israel Inter-University Fund for Ecology	Subtropical Thicket Ecosystem Planning Project
Israel Science Foundation	Succulent Karoo Ecosystem Planning Project
Joint France/RSA Science and Technology Agreement	University of California Natural Reserve System
KwaZulu-Natal Wildlife	Whitley Awards (UK)
Land and Agricultural Policy Centre	World Conservation Union (IUCN)
Leaverhulme Trust	World Wide Fund for Nature (SA)
Marsden Fund, Royal Society of New Zealand	
MARUM University of Bremen	
Mediterranean Ecosystems Research Initiative	

I have evaluated the research and other achievements of personnel for the following organisations:

Academy of Sciences of South Africa	National Science and Technology Forum
Australian Academy of Science	National Science Foundation (USA)
Banovich Wildscapes Foundation	New South Wales National Parks and Wildlife Services
BBVA Foundation Award for Scientific Research in Ecology and Conservation	Oppenheimer Trust
Botanical Society of South Africa	Palaeontological Scientific Trust, University of the Witwatersrand
Cambridge University	Rhodes University
Cape Action for People and the Environment Project, SANBI	Royal Society of South Africa
Cape Nature	Royal Society (London)
Cape Planning Unit: Cape Nature	Royal Society Pfizer Award
Commonwealth Secretariat	Society for Conservation Biology
CSIR: Natural Resources and Environment	Stockholm University
CSIRO: Entomology (Canberra)	South African Association of Botanists
Curtin University, Western Australia	South African Awards for Women in Science
Deutscher Akademischer Austauschdienst (DAAD)	South African Council for Natural Scientific Professions
DST/NRF Centre of Excellence: Centre for Invasive Biology, University of Stellenbosch	South African Ecological Observatory Network
DST SA Women in Science Award	South African Institute for Aquatic Biodiversity
Ecological Society of America	South African National Biodiversity Institute
Erriksen Trust	South African Women in Science Awards
Eureka Prize (Australia)	Stellenbosch University (including evaluation of the Dept of Conservation and Entomology)
Fullbright	Texas Tech University
Gouritz Corridor Biosphere Reserve	The Nature Conservancy, USA
Hanse-Wissenschaftskolleg Fellowship	University of Adelaide
Harry Crossley Bursary Fund	University of Arizona
Imperial College (UK)	University of California at Davis
International Biodiversity Observation Year	University of California at Irvine
James Cook University	University of California at Los Angeles
Murdoch University, Perth	
National Academy of Sciences (USA)	
National Research Foundation	

University of California Riverside
 University of California Santa Barbara
 University of Cape Town
 University of Connecticut
 University of Fort Hare
 University of Guyana
 University of Kent
 University of KwaZulu-Natal
 (Pietermaritzburg)
 University of Otago (New Zealand)
 University of Plymouth

University of Pretoria (including
 evaluation of Botany Dept.)
 University of Queensland
 University of Southern California (Tyler
 Environment Prize) (twice)
 University of the Witwatersrand
 University of the West Indies
 University of California at Los Angeles
 World Wide Fund: South Africa

*Member (Convener - 1997) of Plant Sciences Evaluation Committee (1994-1997)

2.7 External examination duties

I have acted as the external examiner for the ecology module of the Botany Honours course, University of the Western Cape (1990-1996) and have examined theses for this university as well as James Cook University (Australia), Rhodes University, University of Cape Town, University of KwaZulu-Natal (Pietermaritzburg), University of New England (Australia), University of Otago (New Zealand), University of Port Elizabeth, University of Stellenbosch, University of Sydney, University of Tasmania, University of Technology: Sydney, University of Western Australia, University of Pretoria and the University of the Witwatersrand. I was external examiner for all modules presented by the Department of Environmental Science, Rhodes University (2009-2011).

3.0 POSTGRADUATE STUDENTS

3.1 Postgraduate students (* co-supervisor)

Student	Degree	Grad. date
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Completed

1.	MT Hoffman	PhD	1989
2.	DM Richardson	PhD	1989
3.	D Kilian	MSc	1991
4.	PT Manders	PhD	1991
5.	PJ Mustart	PhD	1991
6.	KJ Esler	PhD	1993
7.	MB Richards	PhD	1993
8.	P Ivey*	MSc	1993
9.	HG Laurie*	PhD	1994
10.	C Willis	MSc	1994
11.	J-M Ball	MSc	1995
12.	DJ McDonald	PhD	1995
13.	PG Desmet	MSc	1996
14.	MT Simmons	MSc	1997
15.	J Kemper	MSc	1997
16.	CE Heijnis	MSc	1997
17.	C Johnson	MSc	1998
18.	SI Higgins*	PhD	1998
19.	S Privett	MSc	1998
20.	J Allsopp	MSc	1998

21.	R Lechmere-Oertel	MSc	1998
22.	D Le Maitre*	PhD	1999
23.	P Beukes	PhD	1999
24.	B Heydenrych	MSc	2000
25.	N Eccles*	PhD	2000
26.	S Frazee	MSc	2001
27.	M Rouget*	PhD	2002
28.	J Golding	MSc	2003
29.	R Lechmere-Oertel*	PhD	2003
30.	A Sigwela*	PhD	2004
31.	PG Desmet	PhD	2004
32.	A Kamineth	MSc	2004
33.	A van Cauter*	MSc	2004
34.	M Bause*	MSc	2004
35.	S Heelemann*	MSc	2005
36.	T Cummings*	MSc	2007
37.	C Botes	MSc	2007
38.	L Pasquini*	PhD	2007
39.	R Fenwick*	MSc	2008
40.	W. Stewart	MSc	2008
41.	A Knight	PhD	2008
42.	B Reeves	MSc	2009
43.	J Nel	PhD	2009
44.	D Anderson	MSc	2009
45.	J Colville*	PhD	2009
46.	A von Hase*	PhD	2009
47.	D Hoare	PhD	2010
48.	I Duncan*	MSc	2010
49.	A Wilhelm-Rechmann	PhD	2011
50.	M van der Vyver	MSc	2011
51.	W. Erlank*	MBA	2011
52.	C Hugo	MSc	2011
53.	A Potts*	PhD	2012
54.	L Elkington*	MSc	2012
55.	M McConnachie	PhD	2012
56.	A Rebelo*	MSc	2012
57.	T Kraaij	PhD	2013
58.	C Becker*	MSc	2013
59.	E Singels*	MSc	2013
60.	J de Vynck	MSc	2014
61.	A Beyers*	MSc	2015
62.	R Duker*	PhD	2018
63.	J de Vynck	PhD	2018
64.	W Calitz*	MSc	2018
65.	M van der Vyver	PhD	2018
66.	S Botha	PhD	2019
67.	T Strydom	MSc	2020
68.	T Strydom	PhD	2023

Current

3.2 Postdoctoral students

1.	C J Struiker	1988
2.	E T F Witkowski	1989

3.	P M Holmes	1990-91
4.	P J Mustart	1992
5.	KJ Esler	1993
6.	C Zachariades	1994-95
7.	F Ojeda	1995-97
8.	S Eggenberg	1997-98
9.	S Proches	2002-04
10.	S Ramdhani	2007-08
11.	J Gallo	2008-09
12.	PJ Mustart	2009
13.	L Pasquini	2010-11
14.	M McConnachie	2012-13
15.	A Potts	2012-14
16.	A Grobler	2018-22

4.0 RESEARCH FUNDING (1990-)*

*Much of my fundraising is channelled through other organizations so the full amount is not reflected in the table above; not included is NRF bursary funding

Principal grantholder		
Year	No. grants	Amount (R)
1990	6	224 131
1991	4	201 000
1992	3	179 932
1993	5	260 637
1994	6	395 550
1995	6	357 960
1996	6	295 281
1997	7	401 234
1998	5	377 225
1999	5	1 651 421
2000	4	416 945
2001	4	361 138
2002	5	599 325
2003	5	259 418
2004	4	278 892
2005	2	197 930
2006	3	225 578
2007	4	404 877
2008	4	529 040
2009	4	434 695
2010	4	313 023
2011	4	393 800
2012	4	183 600
2013	2	974 480
2014	5	541 570
2015	2	292 045
2016	3	467 210
2017	3	387 900
2018	2	77 782
2019	1	57 482
2020	2	133 456
2021	1	39 746
2022	1	114 515
2023	1	132 851
Subsidiary grantholder		
1990	3	95 606
1991	2	65 000
1992	2	70 000
1993	0	0
1994	0	0
1995	0	0
1996	1	70 000
1997	1	70 00
1998	0	0
1999	1	48 000
2000	0	0

2001	3	1 665 111
2002	3	1 289 058
2003	0	0
2004	0	0
2005	0	0
2006	0	0
2007	0	0
2008	0	0
2009	0	0
2010	0	0
2011	0	0
2012	2	9 980 000
2013	2	66 970
2014	1	1 338 000
2015	0	0
2016	0	0
2017	0	0
2018	0	0
2019	0	0
2020	0	0
2021	0	0
2022	0	0

5.0 PUBLICATIONS AND RESEARCH COMMUNICATION

5.1 Citation analysis (21 Mar 2024):

Google Scholar: *h*-index = 115; 44 098 citations

Web of Science: *h*-index = 79; 21 143 citations

5.2 Peer-reviewed scientific papers

- 1 **Cowling RM**, Moll EJ and Campbell BM 1976. The ecological status of the understorey communities of pine forests on Table Mountain. *South African Forestry Journal* 99, 13-24.
- 2 **Cowling RM** and Campbell BM 1980 Convergence in vegetation structure in the mediterranean communities of California, Chile and South Africa. *Vegetatio* 43, 191-7.
- 3 **Cowling RM** and Mitchell DT 1981 Sugar composition, total nitrogen and accumulation of C-14 assimilates in floral nectaries of *Protea* species. *Journal of South African Botany* 47, 743-50.
- 4 **Cowling RM** 1983 The occurrence of C3 and C4 grasses in the south eastern Cape, South Africa. *Oecologia* 58, 121-27.
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3. **Cowling R** 2014. The annual checkup. *Carapace* 103, 11.
4. **Cowling R** 2015. Abandonment. *Carapace* 103, 22.
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6. **Cowling R** 2016. Go gently. *Stanzas* 4, 25.
7. **Cowling R** 2018. Death. *Stanzas* 12, 29.

6.0 Papers delivered at scientific meetings (* = invited papers/seminars)

Note: papers delivered by co-authors are not listed

1979

Convergence in the vegetation structure of the mediterranean regions of California, Chile and South Africa. South African Association of Botanists (SAAB) annual symposium, Stellenbosch,.

Vegetation characterisation and dynamics in the south eastern Cape. Fynbos Biome Project Meeting, Stellenbosch, South Africa.

Vegetation dynamics: time-scales and measurement. Conference on the ecology of the southern Cape, Saasveld, South Africa.

1981

A comparison of fynbos and non-fynbos coenoclines in the Gamtoos River Valley, S.E. Cape. SAAB, Port Elizabeth, South Africa.

What is False Fynbos? Fynbos Biome Project Meeting, Cape Town, South Africa.

1982

* Methods of gradient analysis. Seminar on the analysis of ecological gradients. Pretoria, South Africa.

Vegetation classification and characterisation in the S.E. Cape. Fynbos Biome Project Research Meeting, Stellenbosch, South Africa.

1983

Nectar composition and pollination syndromes in *Protea*. Australian Pollination and Ecologists Society Symposium, Muresk, Western Australia.

* Gradient analysis in the S.E. Cape, South Africa. Seminar at Curtin University, Perth, Australia.

* Population approach to the study of vegetation dynamics: examples from Proteaceae. Seminar at Curtin University, Perth, Australia.

1984

* Australian heath and South African fynbos: similarities and differences. Fynbos Biome Research Meeting, Stellenbosch, South Africa.

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Why is serotiny better developed in Australian heath than in South African fynbos? Fynbos Biome Project Research Symposium, Cape Town, South Africa.

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1985

* Monitoring species diversity: theory and application. Grasslands Monitoring Workshop, Kruger National Park, South Africa.

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* Fire seasonal effects in Gondwanan heathlands. Seminar, University of Port Elizabeth, South Africa.

Impact of grazing by domestic livestock on Grassy Fynbos in the S.E. Cape. Fynbos Biome Project Research Meeting, Stellenbosch, South Africa.

* Population reductionism. Workshop on concepts in southern African ecology, Houwhoek, South Africa.

The reproductive ecology of Western Australian *Banksia* species. Implications for the wildflower industry. First International Protea Research Symposium, Cape Town, South Africa.

* Convergence and non-convergence in South African and Australian heath vegetation. Seminar, University of Cape Town, South Africa.

* Grassland mapping: concepts and applications. Grassland Biome Project Workshop on vegetation mapping, Pretoria, South Africa.

* A description of the Karoo Biome Project. Karoo Biome Project Research Meeting, Zuurberg, South Africa.

The dynamics of plant-animal interactions in semi-arid ecosystems. Karoo Biome Project Research Meeting, Zuurberg, South Africa.

* The *Banksia* Atlas in Australia. Plant Atlassing Workshop, Cape Town, South Africa.

1986

* Patterns and processes in south coast dune vegetation. Institute of Coastal Research Symposium on the structure and functioning of sand dune ecosystems, University of Port Elizabeth, South Africa.

* Fire and its role in coexistence and speciation in Gondwanan shrublands. Fynbos Biome Project Annual Research Meeting, Cape Town, South Africa.

Variation in serotiny of *Banksia* species along climatic gradient. INTECOL Conference, Syracuse, USA.

* Fire and its role in coexistence and speciation in Cape fynbos shrublands. Santa Rosa Botanical Gardens, Los Angeles, USA.

1987

Successional models in the dune vegetation of the SE Cape. SAAB, Durban, South Africa.

* Ecology and archaeology in a tension zone: the southeastern Cape. Africa Seminar, University of Cape Town, South Africa.

1988

* Patterns of plant species richness in southern Africa. Biotic diversity and conservation in southern Africa symposium, Cape Town, South Africa.

Flames and flowers : current research on the Agulhas Plain. Fynbos Biome Project Annual Research Meeting, Montagu, South Africa.

* Evolution and maintenance of plant species diversity southern Africa. Seminar, University of Western Australia.

Restoration of plant communities after fire : case studies of *Banksia*-dominated vegetation. Australian Ecological Society Symposium, Geraldton, Western Australia.

* Against FRD's Special Programmes. Academic Association Debate, University of Cape Town, South Africa.

1989

* What about banksias? Seminar, University of Cape Town, South Africa.

* Scientific research and the wildflower industry. South African Protea Packages and Exporters Association (SAPPEX) Annual General Meeting, Elsenberg, South Africa.

Overstorey effects on fynbos community structure. Fynbos Biome Project Annual Research Meeting, Clanwilliam, South Africa.

- * Environmental constraints on development in southern Africa. University of Cape Town Extra Mural Studies Winter School.

1990

- Population models for wildflower harvesting. SAAB, Grahamstown, South Africa.
- * Options for rural landuse in southern Africa. An ecological perspective. Institute for Democratic Alternatives in South Africa (IDASA) Workshop, Houwhoek, South Africa. Repeated at Cape Town Ecological Group Meeting; Citizens Institute; Environmental and Geographic Science (UCT).
- * The academic boycott in South Africa. Impact on science. Workshop for Southern African Development Association Botanists, Maputo, Mozambique.
- * A review of fynbos research. Fynbos Forum Annual Research Meeting, Stellenbosch, South Africa.
- * Subtropical thicket in the south-eastern Cape: a biogeographical perspective. First Valley Bushveld/Subtropical Thicket Symposium, Grahamstown, South Africa.

1991

- Taxonomic, biological and edaphic aspects of endemism in the Cape flora. SAAB, Pietermaritzburg, South Africa.
- * Agriculture in South Africa. An ecological perspective. Ecologize Politics, Politicize Ecology Symposium, Cape Town, South Africa.
- * Vegetation and flora of the fynbos biome. Fynbos Forum Annual Research Meeting. De Hoop, South Africa.
- * Plant diversity in the fynbos biome. Fynbos Forum Annual Research Meeting. De Hoop, South Africa.
- * Patterns of alpha diversity in Cape fynbos. MEDECOS VI Maleme, Crete.

1992

- * Species diversity, functional diversity and functional redundancy in Cape fynbos. Symposium on Biodiversity and Ecosystem Function in Mediterranean-Type Ecosystems. Cape Town, South Africa.

1993

- Endemism on matched sites in mediterranean Australia and South Africa. SAAB, Cape Town, South Africa.
- * Coexistence and competition in South African fynbos. XII International Botanical Conference. Yokohama, Japan.
- * Plant biodiversity in southern Africa. An analysis of the hotspots. Symposium on Conservation of Southern Africa's Botanical Diversity. Cape Town, South Africa.
- * Land for all or land for none? Whither the karoo? University of Natal Lecture Series, Pietermaritzburg, South Africa.

1994

- * Endemism and biodiversity. Workshop on GEF/UNEP Global Biodiversity Assessment. British Museum, London.

- * Local endemism and plant conservation in South African fynbos. VII Conference on Mediterranean Type Ecosystems. Renaca-Vina Del Mar, Chile.
- * Fynbos. Getting the biodiversity message across. Pew Scholars workshop. Tuscon, Arizona, USA.

1995

- *Southern African ecosystems: an overview. Valuation of fynbos workshop, University of Cape Town.
 - *The origin and evolution of fynbos. Winter School, Dept Extra Mural Studies, University of Cape Town, South Africa.
 - *Making biodiversity work - the economics of fynbos. Winter School, Dept Extra Mural Studies, University of Cape Town, South Africa.
- What is fynbos worth? A dynamic ecological-economic model of a fynbos watershed. Fynbos Forum Annual Meeting, Grabouw, South Africa.

1996

- *Alien plants in the Cape Floristic Region: extinctions and economics. Keynote Address. International symposium on biological control, Stellenbosch, South Africa.
- *Alien plants in the Cape Flora. Getting to grips with the economic issues. Annual General Meeting of the Royal Society of South Africa, Cape Town, South Africa.
- *A wetter glacial in the Western Cape? Analysis of the fossil charcoal assemblages from Elands Bay Cave. QUARC workshop, University of Cape Town.
- *On the origin of Gondwanan species flocks: diversity of Proteaceae in mediterranean-climate Western Australia and South Africa. Symposium on Proteaceae. Royal Botanical Gardens, Melbourne (I failed to attend, owing to illness: paper was presented by co-author BB Lamont).

1997

- *Ecological economics of fynbos ecosystems. Training workshop in environmental economics conducted by the Beijer Institute, Stockholm and held in Cape Town.
- *Conservation for the 21st Century: a strategy for the Cape Floristic Region. Opening keynote address, AETFAT Congress, University of Zimbabwe.
- *Plant conservation priorities and strategies for the Cape Floristic Region. GEF workshop, Cape Town.
- *Vegetation history in the south-western Cape. QUARC workshop for PAGES committee, SA Museum, Cape Town
- *A plant ecological perspective. Workshop on the precautionary perspective, FitzPatrick Institute, University of Cape Town.
- *Towards a strategy for the conservation of biodiversity in the Cape Floristic Region. GEF workshop. Cape Town
- *Conservation planning in a changing world. VIII Conference on Mediterranean Type Ecosystems. San Diego, USA.
- *Developing persistent reserve systems in South Africa's Cape Region. World Bank, Washington, USA.

1998

*Terrestrial biodiversity: Strategic Plan for the Cape Floristic Region. GEF workshop, Cape Town.

*Fynbos Forum: next 21 years. Keynote Address. Fynbos Forum Annual Meeting, Arniston.

*Conservation of the Cape Flora: Current situation and future strategies. Keynote Address. International Protea Association Conference, Cape Town

*David and Goliath. Comparing succulent growth forms in Namaqualand and northern Baja California, Mexico. Keynote Address. International Organization for the Study of Succulents Conference, Cape Town.

Strategic and systematic approaches to conservation planning in South Africa's Succulent Karoo. Co-presented with RL Pressey. International Organization for the Study of Succulents Conference, Cape Town.

1999

*Aspects of rare-common plant differences in the Cape Flora. NBI-CNRS Workshop on Biodiversity Dynamics, Cape Town.

*A strategic framework for conservation planning in the Cape Floristic Region. CAPE Project Technical Workshop, Cape Town.

Rare-common plant differences in the Cape Flora: evolutionary and conservation implications. Seminar, Botany Department, University of Port Elizabeth

Planning for biodiversity persistence in the succulent karoo. Arid Zone Forum, Vanrhynsdorp.

*Progress with the Terrestrial Biodiversity Component of the CAPE Project. Fynbos Forum, Rhein's Nature Reserve.

Approaches to conservation planning: lessons from the CAPE Project. Seminar, Zoology Department, University of Port Elizabeth.

2000

*A CAPE Project update for conservation managers. University of Stellenbosch.

*Integrating evolutionary processes into conservation planning. University of New England, Armidale, Australia.

*Rapid plant diversification: planning for an evolutionary future. Future of Evolution Colloquium, National Academy of Sciences, Irvine, California.

*Progress with terrestrial biodiversity conservation planning for the CAPE Project. CAPE Project Strategy Meeting, Worcester.

*A framework for a strategic and systematic conservation plan for the Cape Floral Kingdom: an assessment of the projects. Fynbos Forum, Ganzekraal.

*Integrating biosystematic data in conservation planning: a case study from southern Africa's succulent karoo. Society for Systematic Biology Symposium: Biodiversity: The Interface Between Systematics and Conservation. Evolution 2000 Conference, University of Indianapolis.

*Conservation planning in the fynbos ecoregion: protocol and outcomes. Ecoregion Based Conservation: Integrating Socio-Economic Data. Workshop at World Wide Fund: USA (Washington DC).

*The CAPE Project: planning and implementation (co-delivered with A Younge). Global Environmental Facility (Washington DC)

*Workshop participant: Hotspots Group. Defying Nature End Conference (co-organized by Conservation International and IUCN), Pasadena, California.

*Towards a strategic conservation plan for the Cape Floristic Region. Keynote (Presidential) Address. MEDECOS 2000 (9th Conference of the International Society of Mediterranean Ecologists), Stellenbosch.

*Biodiversity. Cape Action Plan for the Environment Symposium, Cape Town.

2001

*Systematic conservation planning. Workshop: KwaZulu-Natal Systematic Conservation Planning and Development Project, Pietermaritzburg

*Patterns and determinants of plant diversity in the Cape Floristic Kingdom. Workshop: Bayesian Macroecology. National Centre for Ecological Analysis and Synthesis, Santa Barbara.

*Effectiveness of the conservation system of the Cape Floristic Region. Zoological Society of South Africa Symposium, Port Elizabeth, South Africa.

The expert or the algorithm? - comparison of priority conservation areas in the Cape Floristic Region identified by park managers and reserve selection software. Fynbos Forum, Calitzdorp, South Africa

*What do we know? Conservation planning for biodiversity in the Succulent Karoo. Workshop: Conservation Planning in the Succulent Karoo. Calitzdorp, South Africa.

*Options for wilderness proclamation of private land: lets try and achieve conservation targets. 7th World Wilderness Congress, Port Elizabeth, South Africa.

*Tools and methodologies for conservation planning. Strategy Session on Bioregional Planning. National Botanical Institute, Kirstenbosch.

* Heterogeneity, speciation/extinction history and climate: explaining regional plant diversity patterns in the Cape Floristic Region. Workshop: Bayesian Macroecology. National Centre for Ecological Analysis and Synthesis, Santa Barbara.

*Cape, Succulent Karoo and Maputaland-Pondoland Hotspots: an overview of their biodiversity. Rethinking biodiversity conservation in Africa and Madagascar. Conservation International. Washington DC.

2002

*Ecological impacts of elephants in the Eastern Cape. Workshop: Elephant conservation and management in the Eastern Cape. University of Port Elizabeth

*Implementation issues for the Greater Addo Elephant National Park. GAENP: Final Consultant's Workshop, University of Port Elizabeth.

*Opportunities and synergies: commercial land-use and conservation. STEP Focus Group Meeting: Keeping people on the land: biodiversity conservation and sustainable land use in the thicket biome.

*Planning for multiple biodiversity targets: a case study from the Cape Floristic Region. Plenary Address. Society for Conservation Biology 16th Annual Meeting, Canterbury, United Kingdom (keynote plenary address).

*Why a need for integration and co-ordination? Workshop: Integration of conservation planning outputs, Kirstenbosch Research Centre.

*Conservation planning outcomes and geographical priorities for the Succulent Karoo Ecosystem Planning (SKEP) Project. SKEP biome-wide action planning workshop, Kirstenbosch.

*Interpreting and displaying conservation planning outputs for local-level land use planning. STEP land use planning workshop, University of Port Elizabeth.

2003

*Designing biodiversity corridors. C.A.P.E. workshop: Determination of boundaries of the Cederberg Megareserve, Vanrhynsdorp.

*STEP conservation assessment products. STEP strategy workshop, Sea View Hotel.

*Patterns and evolution of plant diversity in the Cape Floristic Region. Symposium on plant diversity and complexity patterns – local, regional and global dimensions. The Royal Danish Academy of Sciences and Letters, Copenhagen.

*Planning for implementation: designing megaconservancy networks. Fynbos Forum, Hartenbos, South Africa.

* Mainstreaming the outcomes of systematic conservation planning for implementation: examples from ecoregional conservation assessments in South Africa. World Parks Congress, Durban, South Africa.

*Why a systematic conservation assessment for thicket? Launch of the Subtropical Thicket Ecosystem Planning (STEP) Project, PE Technikon.

*So what are megareserves and what can they do for sustainability? Department of Environmental Sciences, Rhodes University.

*Systematic conservation planning, bioregional planning and spatial development frameworks – some issues. Department of Environmental Affairs and Planning: Western Cape

2004

*Identifying the spatial components of processes for conservation assessments: data, expert knowledge and uncertainty. IV Southern Connections Conference, University of Cape Town, 19-23 Jan.

*Issues for implementation. Biodiversity Planning and Implementation Forum. Kirstenbosch, 26-28 Jan.

*Background to conservation planning in the Cape Floristic Region. National Botanical Institute-Conservation Unit (BotSoc)-Conservation International Workshop on Monitoring and Evaluating Conservation Outcomes, Kirstenbosch, 15 Mar.

* Climate stability in mediterranean-type ecosystems: implications for the evolution and conservation of biodiversity. Invited keynote address: 10th MEDECOS – International Conference

on Ecology, Conservation and Management of Mediterranean Climate Ecosystems, Rhodes Island, Greece, 26 – 30 Apr.

*Background to the STEP Project and why conserve valley bushveld. Agency Workshop: Land-use and Livelihoods Project of the Fish River Biodiversity Initiative (repeated for the Landowners Workshop), 18-19 May.

*Thicket research – quo vadis? Inaugural Thicket Forum meeting, Zuurberg, 26-27 May.

* The process of mainstreaming: conditions, constraints and prospects. Mainstreaming biodiversity in production landscapes and sectors. National Botanical Institute and STAP: GEF. Kirstenbosch, 20 Sept.

2005

*Mining and biodiversity: the conservationist perspective. Invited keynote address: Mining and biodiversity workshop – SANBI, IUCN and Chamber of Mines. SANBI, Pretoria, 19 – 20 Jan.

*Incorporating strong sustainability into conservation planning: identifying and mapping critical natural capital at the municipal level. Biodiversity planning and implementation forum. Didima Conference Centre, KwaZulu-Natal, 26-28 Jan.

*Incorporating ecosystem processes into bioregional planning. Workshop: Little Karoo Case Study: Linking biodiversity, ecosystem services and human well-being. CSIR, Stellenbosch, 7 March.

*Conservation planning approaches for the Cape Floristic Region. Phylogenetic Diversity Workshop, Cape St Francis, 15-20 March (with M. Rouget).

*Using the STEP products to guide development in the Kouga Municipality: the case for the Kabaljour Integrated Development Initiative (KIDI). KIDI Workshop, Jeffreys Bay, 5 April.

*EIA and conservation planning: the importance of critical natural capital. Coastal and Environmental Services AGM, Grahamstown, 9 May.

On the origin of subtropical thicket. Thicket Forum, Grahamstown, 16-18 May.

Planning for implementation. Seminar, Botany Dept, NMMU, 14 June

*Beyond borderlines: perspectives on conservation. Invited Special Guest Lecture. Society for Conservation Biology 19th Annual Meeting, Brasilia, 15-19 July.

*Planning for implementation: mainstreaming nature conservation into land-use planning. Society for Conservation Biology 19th Annual Meeting, Brasilia, 15-19 July.

*Fynbos diversity and dynamics: looking west from the east. Invited keynote address. Fynbos Forum, Port Elizabeth, 1-5 August.

Perspectives on conservation. Seminar, Botany Dept, NMMU, 3 October.

*Guidelines for participation in the Little Karoo Study Group. Arid Zone Forum, Barrydale, 13-16 September.

*Defining and doing conservation: a scientist's perspective. Gouritz Initiative Steering Committee Meeting, Oudtshoorn, 16 November.

2006

*Managing eastern fynbos communities for fuel reduction: new insights on fire season effects on non-sprouting serotinous Proteaceae. Mountain to Ocean workshop on re-afforestation. Bluebelliesbush, 10 February.

*Spatial planning: pointers for the Klein Karoo. Klein Karoo Study Group workshop, CSIR, Stellenbosch, 27 March.

*Perspectives on conservation. Amy Jacot-Guillarmond Memorial Lecture, Royal Society of South Africa, Rhodes University, 30 March.

*Planning for climate change: institutional challenges. National Association of Conservancies of South Africa Conference, 8-9 June.

*Into the thick of it...new perspectives on valley bushveld. Thicket Forum, Dohne Research Institute, Stutterheim, 17-20 July.

*Fusion or failure: transdisciplinary challenges for conservation science. Science Faculty Seminar, Nelson Mandela Metropolitan University, 17 August.

*Designing and implementing conservation corridors in production landscapes: lessons from South Africa. 1st European Congress of Conservation Biology, Eger, Hungary, 22-26 August.

*Transdisciplinary approaches to conservation planning: it's all about values. Biodiversity Conservation in Dynamic Landscapes Network Meeting, Vanwyksdorp, 26-30 September.

*Carbon banking in the thicket biome: an opportunity for STEP. Eastern Cape Implementation Committee Meeting, Gonubie, 7 November.

2007

*Conservation snapshot: South Africa. The Nature Conservancy Workshop: Increasing the pace, scale and effectiveness of conservation in the Mediterranean biome, Monterey California, 19-23 March.

*Planning for implementation. Conservation Planning Short Course. Society for Conservation Biology 21st Annual Meeting, Port Elizabeth, 1-5 July.

*An operational framework for mainstreaming ecosystem services into land use planning. Society for Conservation Biology 21st Annual Meeting, Port Elizabeth, 1-5 July.

*Research for implementation: things to think about and things to do. Thicket Forum, Rhodes University, 17-19 July.

*Research for implementation: things to think about and things to do. Invited keynote address, Fynbos Forum, Langebaan, 1-3 Aug.

*Planning for implementation of sustainable resource development. Saasveld 75 Symposium, 27-28 Sept.

*Towards inter and transdisciplinarity : opportunities for NMMU. Executive Management Committee meeting, NMMU. 23 Oct.

*The ecology and evolution of subtropical thicket: implications for restoration. PRESENCE Workshop – Restoration for Ecosystem Services. Baviaanskloof, 11-14 Nov.

2008

* Geomorphic evolution: the missing ingredient for the diversification of the Cape flora. South African Society of Systematic Biologists Cape Biota Symposium, Drakensville ATKV Resort, 17-18 Jan.

*Key challenges for conservation in the 21st Century: Overcoming barriers for building a transdisciplinary conservation science. Keynote presentation. Cambridge Student's Conference, Cambridge University, 25-27 March.

*Conceptual and operational aspects of restoration. Workshop: Defining priorities for restoration ecology in the Cape Floristic Region, University of Stellenbosch, 24-25 April.

*The Cape Region: an evolutionary context. SACP4 Workshop, Mossel Bay, 17-18 May.

*Biodiversity: research for implementation. BTech Student Symposium: Challenges for sustainability in South Africa, NMMU: George Campus, 23 July.

* Is the plant diversity of the Cape flora unique: an evolutionary perspective
Keynote address, Interfaces Conference, Oudtshoorn, 4-7 Aug.

Impacts of megaherbivores on tree euphorbias. Thicket Forum. Thomas Baines Nature Reserve, 20-22 Aug.

*Fire regime effects in eastern fynbos: implications for fuel management. Tsitsikamma Fire Research Workshop, Boskor, 4 Sept.

*Incorporating adaptive management into the conservation planning process: an operational framework and examples of good and bad practice. Workshop: Systematic conservation planning and adaptive management, Kirstenbosch, 22 Oct.

2009

*From winter-wet to winter-dry: fynbos diversity and endemism along the west-east gradient. Plenary presentation. 35th Annual Conference of the South African Association of Botanists and International Workshop on "Phosphate as a limiting resource", University of Stellenbosch, 19-22 Jan.

*Restoring degraded veld and earning carbon credits: an exciting initiative in our own backyard. Special university-wide presentation, NMMU, 10 Mar.

*Transdisciplinary learning organisations, restoration and carbon. Diversitas Open Science Conference 2, Cape Town, 13-16 Oct.

*Challenges for sustainability: how should the GI respond? Keynote address, CapeNature's Gouritz Biodiversity Corridor Awards Ceremony, Oudtshoorn, 29 Oct. Corridor

*Exploring Levyns Law: west-east plant diversity patterns in the Cape Region. South African Association for the Advancement of Science Awards Ceremony, University of Pretoria, 4 Nov.

2010

*The Gouritz Initiative Domain – The cradle of modern humans. Gouritz Initiative Forum Meeting, Oudtshoorn, 16 Feb.

*Climate change: an opportunity for mainstreaming strong sustainability. South East African Climate Consortium (SEACC) Conference, NMMU, Port Elizabeth, 10 Mar.

Did modern human behaviour evolve on the Cape coast and if so, why? Seminar, Botany Department, NMMU 15 Mar.

*The world's wicked problems- and what it will take to solve them. NMMU Science Week, 21-25 June.

*An extraordinary desert – the Succulent Karoo in a global context. Keynote address, 45th Congress of the Grassland Society of Southern Africa, Kimberley, 19-25 Jul.

Framing biodiversity conservation for decision makers: insights from four Eastern Cape municipalities. Fynbos Forum, Citrusdal, 3-6 Aug.

*Evolution of the Cape mediterranean biome. Workshop on the evolution of mediterranean-type ecosystems, Kirstenbosch Research Centre, 4-8 Sep.

*Biodiversity mainstreaming and monitoring: challenges for a changing world. Keynote address, South African Environmental Observation Network (SAEON) Summit, Kirstenbosch Research Centre, 5-6 Oct.

How do municipal councillors in the thicket biome perceive biodiversity? Thicket Forum, Assegai Trails Conference Centre, 6-8 Oct.

* Social marketing as a tool for implementation in complex social-ecological systems. Colloquium: Understanding the cultural values people attach to nature – implications for conservation, Rhodes University, 1 Nov.

* Evolution of biomes in southwestern southern Africa during the Cenozoic. Keynote address, Langebaan Weg 2010 Conference, Cape Town, 15-18 Nov.

2011

*Mainstreaming biodiversity at local government level requires a cultural shift. Annual Conference of the South African Association of Botanists, Rhodes University, Grahamstown, 17-19 Jan.

*The world's wicked problems. And what it will take to solve them. Invited contribution to Special Faculty Lecture Series, Rhodes University, Grahamstown, 23 Feb.

*Mainstreaming biodiversity at local government level. Garden Route Initiative Forum, George, 1 April.

*Biome evolution in the Cape. Keynote address, Fynbos Forum, Still Bay, 31 May-1 Jun.

*Mediterranean-type ecosystems of the world. Evolution and conservation in extra-tropical hotspots. Special invited lecture co-sponsored by the Institute of Human Origins, School of Life Sciences, and the School of Geographical Sciences and Urban Planning, Arizona State University, Tempe, 2 Sept.

* Evolution of diversity in the world's five Mediterranean-type ecosystems: the role of climatic and topographic dynamics. Invited plenary address, MEDECOS XII, University of California Los Angeles, 6-9 Sept.

2012

*Desertification, carbon sequestration and job creation: the science behind the Subtropical Thicket Restoration Project. Invited plenary address, South African Association of Botanists Congress, University of Pretoria, 15-18 Jan.

*Implementing ecosystem management: it's all about social engagement. Scoping workshop for a Southern African Program on Ecosystem Change and Society (SAPECS). Stellenbosch Institute for Advanced Study (STIAS) and Sustainability Institute, University of Stellenbosch, 7-10 Feb.

*Into the thick of it: recent advances in our knowledge of the thicket biome. Invited guest lecture, Flock: Annual Gathering of Members of Birdlife Africa, Pine Lodge, Port Elizabeth, 17 March.

*Contemporary Cape environment and biotas. Palaeosciences Workshop, STIAS, University of Stellenbosch, 12-15 Jun.

*Beleaguered nature fights back in the St Francis area. Invited opening address, Fynbos Forum, Cape St Francis, 17-19 July.

*On the origin of modern humans. What's so special about the Agulhas Plain? Hessequa Archaeological Society, Still Bay, 3 Oct.

*Linking social and economic development to the Karoo biome. Invited keynote address, Claiming our future. People, space and place in the Karoo, Beaufort West, 14-17 Oct.

*Modern humans evolved along the Cape south coast: new insights on a compelling hypothesis. Science Faculty Lecture, NMMU, 1 Nov.

*The science behind the Subtropical Thicket Restoration Project. DEA/STRP colloquium, Addo Elephant National Park, 2 Nov.

2013

*The honeybush industry: sustainability perspectives. Garden Route Information Sharing Session, George, 2 Aug.

*Why mainstreaming biodiversity is like swimming upstream, and what can be done about it. GEF:Stap/SANBI Expert Workshop on Mainstreaming Biodiversity Conservation in Production Sectors, Kirstenbosch, 1-3 Oct.

Mainstreaming biodiversity and sustainability into the honeybush industry. Fynbos Forum, Kirstenbosch, 7-10 Oct.

*Water, sand and disasters: vulnerability of the Greater St Francis Region. Invited opening address, National Wetlands Indaba, Cape St Francis, 22-25 Oct.

*On uintjies and alikreukels: climate stability, biodiversity and the evolution of modern humans on the Cape South Coast. Invited keynote address, Biodiversity Southern Africa, University of Cape Town, 2-7 Dec.

2014

*Research for honeybush sustainability: contributions from the Eastern Cape. Honeybush Tea Workshop (George Municipality-SAHTA-ARC Elsenberg), Uniondale, 6 Feb.

*Goals and objectives (with C Marean) Palaeoscape 2 Workshop, NMMU George Campus, 7-10 Jul.

Climate stability, biodiversity and the evolution of modern humans on South Africa's Cape south coast. MEDECOS XIII, Olmue, Chile, 6-9 Oct.

*Human origins in southern Africa: the role of climate and environment in supporting early modern human persistence. 2nd National Conference on Global Change, NMMU Summerstrand Campus, 1-4 Dec.

2015

* The historical development of a protected area network in the Cape Floristic Region. Colloquium on Christiaan Wicht and the preservation of the natural vegetation of the Cape Floristic Region: Seventy years on. Stellenbosch, 13 April.

* Levyns' Law: a longitudinal gradient in the ecology and evolution of the Cape flora. Keynote address: Plant diversity in the GCFR: from genomes to biomes. SANBI, Kirstenbosch, 20-22 July.

*Why mainstreaming ecosystem services is like swimming upstream and what can be done about it. Keynote address: 8th International Ecosystem Services Partnership Conference, Stellenbosch, 9-13 Nov.

2016

* What environmental conditions were associated with the emergence of modern humans on the Cape south coast? Fynbos Forum, Port Elizabeth, 25-28 July.

* Palaeoecology and archaeology of the Cape south coast. Jack Skead Memorial Lecture, Rhodes University, 22nd Sep.

*Palaeoenvironments and human subsistence in the Gouritz Biosphere Reserve. Gouritz Cluster Biosphere Forum, Calitzdorp, 15 Nov.

2017

* Did Cape Mediterranean-type vegetation predate a Mediterranean-type climate? XIV MEDECOS symposium, Seville, Spain, 31 Jan-4 Feb.

* Paleo-Agulhas Plain. The ecological theatre and the evolutionary play. Opening address: Palaeoscape III Workshop, Mossel Bay, 27-30 Jun.

* A coastal adaptation in the Cape flora: does it exist? Opening address: Fynbos Forum, Swellendam, 31 Jul-3 Aug.

* Environments and food resources associated with the emergence of modern humans on the Cape south coast. National Science Week public lecture, Nelson Mandela University, 7 Aug.

*Palaeoscience as a platform for transdisciplinarity. Invited keynote: NMU Research Week, 8 Nov.

2018

*Fire and subtropical thicket. Keynote address: Thicket Forum, Addo Elephant National Park, 12-14 June.

*Heritage tourism and biodiversity planning on the Cape south coast. Opening address: Biodiversity Planning Forum, Cape St Francis, 19-22 Jun.

Fire and dune thicket: the role of persistence, light foraging and regeneration niches. Fynbos Forum, Goudini Spa, 31 Jul-3 Aug.

*Fire management in fynbos-thicket mosaics - problems with managing risks of fire hazard and biodiversity loss. 12th Fire Management Symposium, Nelson Mandela University George Campus, 3-5 Oct.

2019

*The ghosts of habitat past: why are Cape Holocene dunes so rich in species and endemics? South African Society for Quaternary Research XXII Biennial Congress, Mossel Bay, 28 Jan – 1 Feb.

*What can Mediterranean-Climate Regions tell us about the evolution of plant diversity? Invited seminar, Department of Botany and Plant Sciences, University of California Riverside, 24 Apr.

* Heritage tourism on the Cape south coast: a conservation and development opportunity. Kabeljous Reserve Action Group AGM, Jeffreys Bay, 16 July.

*A different kind of Cape: climate and soils of the Palaeo-Agulhas Plain during the Last Glacial Maximum. Keynote Address, Fynbos Forum, 6-8 Aug.

2020

*The Paleo-Agulhas Plain (PAP) explains the extraordinary diversity and endemism of the Cape flora on calcareous soils. ACCP symposium: The secrets of the cradle of human culture, Nelson Mandela University, 3 Mar.

2022

* Last Glacial Maximum vegetation of the south coast of the Cape Floristic Region: implication for the evolution of its coastal biota. Contribution to Symposium: The Palaeo-Agulhas Plain Revises our Understanding of the Cape Floristic Region. XVII MEDECOS symposium, Langebaan, 6-10 Sep.