



FYNBOS FORUM

Programme

05-08 August 2003
Hartenbos Resort
Hartenbos, Mossel Bay

Organised by the Fynbos Forum Committee.
Funded by the Conservation and Management of Ecosystems and
Biodiversity Focus Area of the National Research Foundation



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COMMITTEE MEMBERS 2002 – 2003

Chairman:	Ms Kristal Maze
Vice Chair:	Ms Julia Wood
Committee:	Mr Mark Botha
	Dr Patricia Holmes
	Ms Karen Kirkman
	Dr Richard Knight
	Dr Christo Marais
	Mrs Maryke Middelman
	Mr Guy Palmer
	Ms Zohra Parkar
	Mr W Stewart
	Ms Julia Wood
Secretariat:	Ms Wendy Paisley

FYNBOS FORUM MISSION

The Fynbos Forum is an affiliation of researchers, planners, managers, landowners and a range of other stake-holders that meets annually to discuss management issues and research results, and to formulate priorities for future research and conservation management actions required to ensure the conservation and sustainability of Fynbos ecosystems.

In order to achieve this goal, we undertake to assess biological resources, ensure institutional capacity and consider socio-economic issues.

PREVIOUS FYNBOS FORA

1988	:	Avalon Hotel, Montagu
1989	:	ClanWilliam
1990	:	Stellenbosch, The University of Stellenbosch, Die Ark
1991	:	Bredasdorp, Potberg
1992	:	UCT, Cape Town
1993	:	16 & 17 Maart (Drosdy Museum, Swellendam)
1994	:	13-15 Julie (Bien Donné, Stellenbosch)
1995	:	5-6 Desember (Mispah Youth Centre, Grabouw)
1996	:	17-18 Julie (The Nekkies Dist. Worcester)
1997	:	16-18 Julie (Genadendal)
1998	:	22-24 April (Die Herberg, Waenhuiskrans, Arniston)
1999	:	September (Rein's Nature Reserve, Albertinia)
2000	:	7-9 Junie (Ganzekraal Holiday Resort & Conference Centre)
2001	:	01-03 August (Calitzdorp Spa)
2002	:	14-16 August (Goudini, Rawsonville)
2003	:	05-08 August (Hartenbos Resort, Hartenbos, Dist. Mossel Bay)

Fynbos Forum 5-8 August 2003 - Programme Overview

Time	Tue 5 Aug	Wed 6 Aug	Thur 7 Aug	Fri 8 Aug		
7h15		Breakfast & late registration	Breakfast	Breakfast		
8h00		Full plenary: Opening address Brian Huntley	Parallel Workshop1: Expanding Protected Areas: New Approaches Convenor: Mark Botha	Parallel Workshop 2: Towards a research strategy to support CFR conservation Convenors: Guy Palmer & Don Kirkwood	Parallel paper sessions: 7 Education 8 Groundwater 9 Modelling	Parallel Workshop 3: Guidelines for Biodiversity Assessment in EIA's Convenors: Susie Brownlie & Mandy Driver
8h30		Paper Session 1: C.A.P.E. in Action				
10h15		Tea	Tea	Tea		
10h30		Paper Session 2: Ecology & Systematics	Paper session 6: Alien vegetation/Restoration	Parallel paper session 10: Partnerships	Parallel paper session 11: Renosterveld/ Lowlands	
12h45		Lunch	Lunch	Lunch		
13h30		Paper Session 3: Biodiversity & Land-use Planning	30 min poster session 2 14H15 Depart on Field Trips			
15h15		30 min poster session 1 &				
15h30		Tea				
15h45	Registration	Parallel paper Session 4: Aquatic Ecosystems				Parallel paper Session 5: Expanding Protected Areas: New Approaches
17h30		AGM				

18h00	Brief welcome: Kristal Maze Video: Cape Flats Nature George Davis	Wine/cheese tasting WfW Secondary Industries Sustainable products display	Enrichment session: How to write a good funding proposal? Mandy Barnett (C.A.P.E.)	
19h30	Dinner	Dinner	Dinner & dinner speech by Eugene Moll	

Fynbos Forum Programme

Time	Tue 5 Aug
15h45	Registration
18h00	Brief welcome: Kristal Maze Video: Cape Flats Nature/ NBI Urban Conservation Unit – George Davis
19h30	Dinner

Time	Wed 6 Aug
7h15	Breakfast & late registration
8h00	Full plenary: Opening address Brian Huntley

	Paper Session 1: CAPE in Action Chairperson: Christo Marais
8h30	Keynote: Update on CAPE <i>Trevor Sandwith</i>
8h45	Capacity Building of Civil Society Organisations <i>Ursula Titus</i>
9h00	Putting CAPE, STEP & SKEP to work in the Baviaanskloof Mega-Reserve <i>Andrew L. Skowno & Bool Smuts</i>
9h15	How can you contribute to the conservation of Rare and Threatened fynbos plants? <i>Domitilla Raimondo</i>
9h30	Threatened specialist or adaptable survivor? The Black Harrier as a surrogate species for conservation efforts in the Fynbos Biome <i>Odette Curtis, Robert E. Simmons & Andrew R. Jenkins</i>
9h45	Discussion
10h15	Tea

Time	Wed 6 Aug continued
	Paper Session 2: Ecology & Systematics Chairperson: Tony Rebelo
10h30	Keynote: Conserving fynbos; beyond lists and maps Jeremy Midgley
10h45	Life-history strategies in Restionaceae species (<i>Thamnochortus insignis</i> and <i>T. erectus</i>): A matrix-modelling approach <i>TA Campbell, KJ Esler and D Ward</i>
11h00	Speciation in an ancient Cape lineage : Systematics of Spookpaddas <i>Michael Cunningham & Paulette Bloomer</i>
11h15	Can stable water isotopes indicate the origin of water? : A case study at Cape Point, Cape Town <i>Robert Taylor, Edmund February and William Bond</i>
11h30	Factors Affecting the Accuracy of Biogeographical Models of Species Diversity for the Cape Floristic Region <i>James Reeler & Richard Knight</i>
11h45	Revealed patterns of dispersal of an introduced Pincushion proteoid shrub <i>Leucospermum cordifolium</i> in Mountain Fynbos vegetation of Fernkloof Nature Reserve, Hermanus. <i>Richard Knight, Rupert Koopman, Jason Ely, Llewellyn Jacobs, Prideel Majiedt & Sandiswa Mbewana</i>
12h00	Population dynamics of the endangered Clanwilliam cedar. <i>Sarah-Jane Fox, Edmund February & Rosemary Newton</i>
12h15	Discussion
12h45	Lunch
	Paper Session 3: Biodiversity & Land-use Planning Chairperson: Kristal Maze
13h30	Keynote: Planning for implementation - designing megaconservancy networks <i>Richard Cowling, M Rouget, AT Lombard & AT Knight</i>
13h45	Advances in Conservation Planning: Lessons from the Cape and Beyond Amanda Driver
14h00	Integrating strategic conservation planning with environmental impact assessment in the Western Cape: A report card Charl de Villiers

14h15	Contribution of Land use Process for Rural Tourism Development to Conservation Sarien Lategan
14h30	A Knowledge Management Framework for Biodiversity Conservation Selwyn Willoughby & Verna Love
14h45	Landcare: - Areawide Conservation Planning <i>Tertius Carinus</i>
15h00	Discussion
15h15	30 min poster session 1 & Tea
15h30	Tea

Time	Wed 6 Aug continued	
	<i>Parallel Paper Session 4: Aquatic Ecosystems</i> <i>Chairperson: Julia Wood</i>	Parallel Paper Session 5: Expanding Multi-owned Protected Areas: New Approaches Chairperson: Guy Palmer
15h45	Preliminary Results of some "River Health" Assessments Conducted on the Olifants River and it's Tributaries in the Southern Cape. Wietsche Roets	Keynote: Trevor Sandwith Expanding Multi-owned Protected Areas: New Approaches
16h00	Assessing the Ecological Condition of the Eerste River, Based on the SASS5 Methodologies <i>Tamara Jane Harris-Smith</i>	Protection and conservation management of the Southern core and adjacent areas of the Cape West Coast Biosphere Reserve. Nicolaas Hanekom
16h15	The Ecology and Conservation Status of Riparian Vegetation on the Disa River System, Cape Peninsula Ayanda Matoti	Taking Conservation Stewardship to the Landscape in Partnership with the People <i>C Martens</i> and Dr K Hamman

16h30	Riverine floras of the Western Cape: Patterns and Portents <i>Barrie Low & Uschi Pond</i>	Planning Conservation Extension <i>Sean Ranger</i>
16h45	Predicting the distributions of some endemic frog species in the Western Cape using the GARP Modelling System (GMS) <i>C.L. Henderson, M.J. Cunningham, A. Turner & J.H. van der Merwe</i>	Catalysing Private Landowner Conservation in the Cape Floral Kingdom's South-Eastern Lowlands B. Reeves, R.M. Cowling & W.I. Stewart
17h00	Conserving pattern and process in the Gariiep Basin <i>Aimee E. Ginsburg¹, Belinda Reyers¹ and Albert S. van Jaarsveld¹</i>	Policy developments facilitating conservation stewardship of landscapes and remnants <i>Mark Botha</i>
17h15	Discussion	Discussion
17h30	AGM	
18h30	Wine & cheese tasting WfW Sustainable products display	
19h30	Dinner	

<i>Time</i>	Thur 7 Aug	
7h15	Breakfast	
8h00	Parallel Workshop 1: Expanding Multi-owned Protected Areas: New Approaches Convenor: Mark Botha	Parallel Workshop 2: Towards a research strategy to support CFR conservation Convenors: Guy Palmer & Donovan Kirkwood
10h15	Tea	
	Paper session 6:	
	Alien vegetation/Restoration Chairperson: Pat Holmes	
10h30	Keynote: Alien invasions in the Fynbos: The CAPE Assessment in 2002/2003 <i>Ian MacDonald</i>	
10h45	Restoration of riparian zones in the south-western Cape, following clearing of invasive alien plants. An autecological approach. <i>Steve Kirkman & Dave Richardson</i>	
11h00	Why are eucalypts such wimps as invaders? Views from the fynbos, South Africa, and the world. David M. Richardson	
11h15	Investigation into the extent of alien seed banks and relative post clearing emergent rates in the Cape Peninsula National Park <i>Jasson R, Esler KJ & Cheney C</i>	
11h30	Weed & Invader Plant Regulations – The Practical Implementation Answers & Questions <i>Susan de Kock</i>	
11h45	Renosterveld Restoration: The Role of Competition, Herbivory and Disturbance <i>Midoko Iponga, D., Krug CB & Milton SJ</i>	
12h00	Optimal Patch Size for Restoration of Renosterveld? Or Patch size: a seeds view <i>Rainer M. Krug, Dr. Thorsten Wiegand, Prof. Dr. S. J. Milton</i>	
12h15	The reestablishment of an extinct Erica (<i>Erica verticillata</i>) into the wild. Dalton Gibbs	
12h30	Discussion	
12h45	Lunch	

13h30	30 min poster session 2
14h15	Depart on Field Trips
18h00	Enrichment session: How to write a good funding proposal? Mandy Barnett (C.A.P.E.)
19h30	Dinner & dinner speech by Eugene Moll

	Fri 8 Aug	
Time		
7h15	Breakfast	
8h00	Chairperson: Xola Mkefe Parallel Paper session 7: Education An Environmental Expo – is it a good vehicle for environmental education? Margaret Herron	Parallel Workshop session 3: Guidelines for Biodiversity Assessment in EIA's Convenors: Susie Brownlie & Mandy Driver
8h15	<i>Feeling Fynbos: Tips for Environmental Educators</i> Wendy Hitchcock	
8h30	Quality management in Western Cape Nature Conservation Board Louise Stafford	
8h45	Parallel Paper Session 8: Groundwater The Vulnerability of Spring Flow in the Kammanassie Mountain Range to Groundwater Abstraction, and an Assessment of the Impact of this Activity. <i>M C Smart</i>	
9h00	Assessment of Environmental Impacts of Groundwater Abstraction from Table Mountain Group Aquifers on Ecosystems in the Kammanassie Nature Reserve and Environs <i>G.Cleaver, LR Brown & GJ Bredenkamp</i>	

9h15	Environmental Impacts of Large Volume Groundwater Abstraction on Ecosystems Linked to the Table Mountain Group Aquifer <i>D.C. Le Maitre</i>	
9h30	Parallel Paper session 9: Modelling Future destinations on the Silicon Super Highway for Conservation Management <i>Isabelle Gisnet & Richard Knight</i>	
9h45	The use of generalised linear models (GLMs) and geographical information systems (GIS) to identify environmental predictors of the occurrence of tree <i>Euphorbia</i> species in Subtropical Thicket. <i>Kamineth, A.I., Campbell, E.E., Cowling, R.M. and Du Preez, D.R.</i>	
10h00	Discussion	
10h15	Tea	
	Parallel Paper session 10: Partnerships Chairperson: Ursula Titus	Parallel Paper session 11: Renosterveld/ Lowlands Chairperson: Bruce MacKenzie
10h30	Keynote: Implementing the Vision – “A Park for All – Forever” <i>Brett Myrdal</i>	Towards a Vision for Lowlands Renosterveld Conservation <i>A von Hase, Mathieu Rouget, Anton Wolfaart & Kristal Maze</i>
10h45	The Cape Peninsula Fire Protection Association – Challenges Faced and the Road Ahead <i>Augustine Morkel</i>	An update of conservation progress in the South-Eastern Lowlands of the Cape Floral Kingdom <i>Stewart, W.I., Cowling, R.M., Lombard, A.T., & Reeves, B.</i>

Time	Fri 6 Aug Continued	
11h00	CPNP Afromontane Seed Collection Project: - restoration of the Peninsula's Forest Pockets. Carina Potgieter	Succession in West Coast Renosterveld, with different grazing intensities and ploughing histories <i>BA Walton, SJ Milton & A Le Roux</i>
11h15	Cross-pollination in the City: Lessons from community action for conservation on the Cape Flats <i>Xola Mkefe & Tanya Goldman</i>	Tortoise Conservation in the Cape Floristic Region, South Africa: New Initiatives and Opportunities E.H.W. Baard
11h30	Parallel Paper Session 12: Utilisation Hybridization between species of dioecious genus <i>Leucadendron</i> . <i>Ms Adele Rhode & Dr Gail M. Venecourt</i>	What promotes Rooigras (<i>Themeda triandra</i>) growth in South Coast Renosterveld? <i>G.R.Raaitt, C. Boucher & S.J. Milton</i>
11h45	The use of Biotechnology to develop an indigenous crop – Buchu (<i>Agathosma</i> spp) <i>LM Blomerus, A Botha, K Cloete, JH Coetzee, M Fouche, L Hüsselman, JH Groenewaldt and MH Spreeth.</i>	Re-assessing the Ecological Importance of the Saldanha Peninsula – Northern Sandveld Lowlands: Implications for Integrated Conservation Planning <i>Barrie Low, Uschi Pond, Millie Fortuin & Alan Woodford</i>
12h00	NGO CEPF Projects aligned with C.A.P.E. <i>Maryke Middelmann, Lance Kabot</i>	Update on the Biodiversity Strategy of the City of Cape Town. <i>Martinus Fredericks & Gregg Oelofse</i>
12h15	Discussion	Discussion
12h30	Awards & Closure	
12h45	Lunch	

WORKSHOP DESCRIPTIONS

Wed 6 August 8h00 – 10h15

Parallel Workshop 1:

Expanding Multi-owned Protected Areas: New Approaches

Convenor: Mark Botha

Several initiatives to expand or create multi-owned protected areas are being planned or implemented. There is a rich diversity of experience and approaches to these consolidation exercises. The aim of the Fynbos Forum discussion group is to introduce participants to some new developments in protected area thinking internationally, get input from a range of current initiatives in the Fynbos, brainstorm some of the key considerations in creating or expanding protected areas, and arrive at a broad synthesis of the basic components of any strategy to develop multi-owned protected areas in future.

Wed 6 August 8h00 – 10h15

Parallel Workshop 2:

Towards a research strategy to support CFR conservation

Convenors: Guy Palmer, Donovan Kirkwood & Kristal Maze

The aims of this session are: 1) to explore how the Fynbos Forum can develop a research strategy that meets the priority needs of conservation implementers, 2) to explore mechanisms that ensure uptake of relevant research results.

The final strategy will be presented to CAPE and the NRF for their endorsement and alignment of research funding.

At the workshop we hope to come up with a process and terms of reference for how we should go about developing such a strategy that takes into account both:

- On the ground conservation needs, and,
- Researchers inputs on feasibility and project design.

We will also have time for an initial brainstorm on short, medium and long-term research priorities to support biodiversity conservation in the Cape Floristic Region.

Thurs 7 August 18h00

Enrichment session:

How to write a good funding proposal?

Presented by Mandy Barnett (Project Developer, C.A.P.E.)

Many funding organisations require projects to be planned, and proposals to be structured, according to the principles of objectives oriented planning (OOP). OOP is simply 'planning with an objective in mind'. The Logical Framework Approach, Results Based Management and GTZ's ZOPP are all examples of OOP planning frameworks.

These frameworks can be confusing and, as a result, proposal writing for funding agencies can be difficult.

The purpose of this session will be to introduce participants to this planning concept and some of the terminology that is used.

Participants will leave the workshop with a basic understanding of :

- The principles of OOP, and the terminology that is used
- The relationship between project planning and monitoring and evaluation
- Methods that can be used to build projects in a participative way using this approach

Fri 8 August 8h00 – 10h15

Parallel Workshop session 3:

Guidelines for Biodiversity Assessment in EIA's

Convenors: Susie Brownlie & Mandy Driver

Last year's Fynbos Forum identified the need for guidelines for specialist biodiversity assessments that are undertaken as part of EIAs. This workshop session aims to begin to develop such a set of guidelines. We will identify key issues or topics that the guidelines need to cover and ask participants to help develop initial content in each of these areas. We hope to cover key issues from both the ecologist's perspective and the environmental assessment practitioner's perspective. Some of the issues will be generic, and some will apply specifically to the Cape Floristic Region.

The guidelines should cover a range of issues, including the appointment of specialists and their terms of reference, factors to consider in assessing the significance of the site, factors to consider in determining the significance of impacts, realistic achievable mitigation options, how to communicate the results of the specialist assessment effectively.

POSTER TITLES AND NUMBERS

Wednesday 6 August 2003
At 15.15

Session 1 –
Ecology & Systematics
Biodiversity & Land Use Planning

Utilisation

Ecology & Systematics

- 1) An environmental gradient reveals how climate influences phenophases in fynbos growth forms
Lize Agenbag, Karen J. Esler and Guy F. Midgley
- 3) Unraveling Proteaceae architecture: a holistic approach provides insights into responses to environmental pressures
Lize Agenbag, Karen J. Esler and Guy F. Midgley
- 5) **Conserving species histories in a herpetological hotspot**
Michael Cunningham, Krystal A Tolley, Savel R Daniels, Andrew A Turner and Paulette Bloomer
- 7) **Fire Monitoring in Fynbos**
Helen de Klerk and Guy Palmer
- 9) Investigation into the extent of alien seed banks and relative post clearing emergent rates in the Cape Peninsula National Park
Jasson R, Esler KJ & Cheney C
- 11) *Myxobolus* sp. (Myxozoa) infecting the gall bladder of *Sandelia capensis* in the De Hoop vlei
Cecile C. Reed and Linda Basson

Biodiversity & Land Use Planning

- 13) Integrating Biodiversity Information into Land-Use Decision-Making Practices
Glynnis Barodien
- 15) **LANDCARE - Areawide Conservation Planning**
Tertius Carinus, SAN-Parks, L'Agulhas
- 17) Help us update our Red Lists for Plants in the Cape Floral Region?
Ishmael Ebrahim

- 19) Predicting Species Distribution – the application of Genetic Algorithms for Rule Set Production

Hendrik Gaedke & Richard Knight

- 21) **Modelling the distributions of proteas with Bayes.**
AG Rebelo

- 23) The new Fynbos Vegetation Map - the final leg.

AG Rebelo

- 25) Centres of Endemism in Fynbos - where are they?

AG Rebelo

- 27) **Converting Biodiversity Data into Spatial Information for Land-Use Decision-Making**

Fabio Venturi

Multi-owned Protected Areas

- 29) Schapenberg Sir Lowry's Conservancy
Andreas Groenewald, *Heather Epstein* and Dianne Marais

- 31) The Oubaai Conservancy initiative

Dale Holder & Cathy Avierinos

- 33) The Alien and the Ghost.

Paul Slabbert

Agriculture / Utilisation / Challenges

- 35) Farm Planning
Pieter Booyse

- 36) Hulpbronbewaring

Malon Jansen

- 37) How Tourism works in the fynbos

Christine Malan

- 38) Challenges facing Fynbos

Khethokuhle Mthiyane

Session 2 – Thursday 7 August @ 13.30 Catchment Management Alien Vegetation &/or Restoration Renosterveld & Lowlands

Catchment Management

- 2) Floristic Patterns in Seasonal Aquatic Systems of the Northern Sandveld: Implications for Landuse and Conservation Planning
Barrie Low, Uschi Pond, Bill Harding and Julian Conrad
- 4) **Impacts of Groundwater Abstraction on the Northern Sandveld**
Julian Conrad, Barrie Low and Bill Harding
- 6) **Aquatic Ecosystems of the Northern Sandveld**
Bill Harding, Barrie Low and Julian Conrad
- 8) **A State of Rivers Report for the Hartenbos and Klein Brak Rivers**
Ndiitwani, T., Roets, W., Belcher, A., Impson, I., Learner, J. and Strydom, W.
- 10) **State of Rivers Report for the Diep, Hout Bay, Lourens and Palmiet Rivers**
Ndiitwani, T., Belcher, A., Impson, I, Learner, J. and Strydom,
- 12) A present ecological integrity assessment of the Diep River Catchment
Tovhowani Ndiitwani and Richard Knight
- 14) **Geomorphology as a Physical Template for Ecological Integrity of Rivers**

Chantel Petersen
- 16) An Assessment of the Riparian Vegetation of the Lourens River, Somerset West
Siebritz, RM and Withers, MJ
- 18) The Vulnerability of Spring Flow to Groundwater Abstraction in the Kammanassie Mountain Range – An Assessment Technique for a Case with Limited Groundwater Level Data.

MC Smart
- 20) **Working for Wetlands: South Peninsula, City of Cape Town**
Marie Van Heerden, Julia Wood, Joy Garman & Mandy Noffke

Alien Vegetation &/or Restoration

- 22) Influence of Nutrient Loading on the Invasion of an Alien Plant Species, Giant Reed (*Arundo donax*), in Riparian Ecosystems of Mediterranean-type Climates

¹Gretchen Coffman, ²Richard Knight & ¹Richard Ambrose

- 24) Sustainable fynbos management on private property (case study).

Dale Holder & Cathy Avierinos

- 26) Standardised ecological and geomorphological techniques for assessing the relationship between invasive alien species, increased flood disturbances and induced channel change.

Jeffrey Manuel, Richard Knight & Theo Scheepers

Renosterveld & Lowlands

- 28) **Back from the edge**

Luzann Hendricks

- 30) Disturbances and Small Mammal Wineland Renosterveld

Cornelia B. Krug

- 32) **Factors influencing alien grass invasion into remnant Renosterveld patches**

Suretha van Rooyen, Sue Milton and Karen J. Esler

- 34) Grabbing it back – saving a pocket of acid sand-plain ecology.

Bill van der Poll, John Green, James Forsyth, and Lesley Skarzynski.

SEPARATE POSTER DISPLAY BY DEAT, PRETORIA

Fynbos within the Cape Floral Kingdom

Orientation: Fynbos - within the sixth floral kingdom of the world.

Ecological services and indirect use values arising out of the Western Cape Fynbos region.

Alien infestation in the Western Cape resulting in fire damage or water loss.

Western Cape wild flowers harvesting and cultivation and its impact as an industry.

Conservation issues surrounding Fynbos and biodiversity within the Western Cape.