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ACKNOWLEDGEMENTS

FYNBOS FORUM

31 July- 3 August 2017

We wish to acknowledge with many thanks the following for their assistance this year!

- 1. Everyone who participates- you are the forum!
- 2. The Table Mountain fund for sponsoring the Fynbos Forum Innovation Scholarships and the Fynbos Forum book
- 3. All keynote speakers, oral and poster presenters, workshop facilitators, and leaders of field trips for arranging such an interesting programme this year
- 4. Charles Stuart, who's tireless and relentless efforts helped The Fynbos Forum become a registered Non Profit Company

COMMITTEE MEMBERS 2016 - 2017

Chair: Ms Tessa Oliver
Committee: Dr Nicky Allsopp

Ms Carly Cowell Mr Bongani Mnisi Prof Karen Esler

Mr Rupert Koopman (Vice Chair)

Mr Mashudu Nndanduleni

Mr Tony Marshall Mr Donald Matjuda Dr Jasper Slingsby Dr Nicola van Wilgen Ms Julia Wood

Ms Amanda Younge-Hayes

Bookkeeper: Mr Charles Stuart

FYNBOS FORUM MISSION

The Fynbos Forum is an affiliation of researchers, planners, managers, landowners and a range of other stakeholders 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.

Contact details

Fynbos Forum Secretariat 2 Luttrell Crescent Fish Hoek

7925

Email: fynbosforum2014@gmail.com

PREVIOUS FYNBOS FORA

| FYNBOS FORU | IM PROJECT | |
|-------------|---|-------------------------------|
| 1977 | Various dates at UCT & Stellenbosch University- founding of | the Fynbos Biome Project |
| 1978 | Various dates and various venues | , |
| 1979 | Stellenbosch | 29 January |
| 1980 | Stellenbosch | 20 - 30 July |
| 1981 | UCT | 29 - 30 June & 1 July |
| 1982 | UCT | 11 June |
| 1983 | UCT | 28 June |
| 1984 | Stellenbosch | 26 June |
| 1985 | Stellenbosch | 29 - 30 July |
| 1986 | UCT | 26 - 27 June |
| 1987 | Saasveld, George | 23 - 25 June |
| 1988 | Avalon Hotel, Montagu | 27 - 29 July |
| EYNBOS FORI | IM (name change) | |
| 1989 | ClanWilliam | 18 - 20 July |
| 1990 | Stellenbosch - University of Stellenbosch, Die Ark | 1 - 2 October |
| 1991 | Bredasdorp - Potberg | 11 - 13 August |
| 1992 | Cape Town | Ti To Adgust |
| 1993 | Drosdy Museum, Swellendam | 16 - 17 March |
| 1994 | Bien Donné, Stellenbosch | 13 - 15 July |
| 1995 | Mispah Youth Centre, Grabouw | 5 - 6 December |
| 1996 | The Nekkies Dist. Worcester | 17 - 18 July |
| 1997 | Genadendal | 16 - 18 July |
| 1998 | Die Herberg, Waenhuiskrans, Arniston | 22 - 24 April |
| 1999 | Rein's Nature Reserve, Albertinia | 22 - 23 September |
| 2000 | Ganzekraal Holiday Resort & Conference Centre | 7 - 9 June |
| 2001 | Calitzdorp Spa | 1 - 3 August |
| 2002 | Goudini, Rawsonville | 14 - 16 August |
| 2003 | Hartenbos Resort, Hartenbos, Dist. Mossel Bay | 5 - 8 August |
| 2004 | Club Mykonos, Langebaan | 10 - 13 August |
| 2005 | Pine Lodge, Port Elizabeth | 1 - 5 August |
| 2006 | Goudini Spa, Rawsonville, Dist. Worcester | 9 - 11August |
| 2007 | Club Mykonos, Langebaan | 1 - 3 August |
| 2008 | Oudtshoorn – known as Interfaces, a joint forum with Arid Zoi | nes Ecology Forum, 3-7 August |
| 2009 | The Sports Centre, Bredasdorp | 4 – 7 August |
| 2010 | NG Church Centre, Citrusdal | 3 – 6 August |
| 2011 | Community Hall, Still Bay | 31 May – 3 June |
| 2012 | Cape St Francis | 17 – 19 July |
| 2013 | Kirstenbosch Botanic Garden, Cape Town | 7 – 10 October |
| 2014 | Premier Hotel, Knysna | 4 – 7 August |
| 2015 | NG Church Hall, Montagu | 3 – 6 August |
| 2016 | Pine Lodge, Port Elizabeth | 25 - 28 July |

Fynbos Forum 2017 Programme Overview

| Time | Monday 4 th August 2014 |
|-------|---|
| 09h00 | CASABIO Workshop 1 |
| 12h30 | Lunch for Workshop 1 participants |
| 13h30 | Workshop 1 continued |
| 17h30 | Registration for delegates |
| 18h30 | Opening of Fynbos Forum |
| 19h00 | DINNER |
| | T. |
| | Tuesday 5 th August |
| 7h30 | Late registration |
| 8h20 | Welcome & Keynote address |
| 9h00 | Session 1: Diversity & Coexistence: Past present future |
| 10h15 | TEA |
| 10h45 | Session 2: Aliens |
| 13h00 | LUNCH |
| 14h00 | Session 3: Fire |
| 15h30 | TEA and POSTERS |
| 16h15 | Session 3: Pathogens |
| 17h15 | Caroline Gelderblom- Fynbos Forum- the way forward |
| 17h45 | Fynbos Forum AGM |
| 19h00 | DINNER |
| | |
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| | Wednesday 6th August |
|-------|--|
| 08h00 | Late registration |
| 08h30 | Session 4: Ecological Restoration |
| 10h30 | TEA |
| 11h00 | Session 5: Sustainable use and cultivation |
| 12h25 | Session 6: Climate Change |
| 13h00 | Fieldtrip Briefing and lunch pickup |
| 13h00 | |
| 19h00 | DINNER and DISCO |
| | |
| | Thursday 7 th August |
| 07h30 | Late registration |
| 08h30 | Pam Booth: The Knysna Fire |
| | Session 7: Planning and Management |
| 10h30 | TEA |
| 11h00 | Session 7: Planning and Management continued |
| 13h00 | LUNCH |
| 14h00 | Session 8: Citizen Science |
| 15h45 | Prize giving |
| | Travel home safely! |

Fynbos Forum 2017 Programme

| Time | Monday 31 July 2017 |
|--------------|--|
| 9h00 | Workshop by CASABIO |
| | Road and Rail Reserve Workshop: Project SATRN and Roadside Diversity Day – creating and monitoring the world's longest and most species |
| | rich reserve |
| 17h30 | Registration |
| 18h30 | Welcome address |
| 19h00 | DINNER |
| | Tuesday 4 Avenuet 2047 |
| 71.00 | Tuesday 1 August 2017 |
| 7h30 | Late registration Welcome & Opening: Tessa Oliver |
| 8h20 8h30 | 1 4 |
| 9h00 | Keynote address- Richard Cowling |
| 31100 | Session 1: Diversity & Coexistence: Past present future |
| | Kristen Nolting: Functional Trait Divergence and Eco-physiological Convergence in Protea Species in the Cape Floristic Region, South Africa - 15 |
| | Lara Kaiser: Cross-generation interactions between overstorey and understorey plants in Fynbos - 6 |
| | Genevieve Theron: Testing pollinator-mediated floral evolution of Ferraria (Iridaceae) - 15 |
| | Marike Louw: Listen up! Eavesdropping on a Cape Peninsula Endemic -15 |
| | Melandri Rafferty: Drought-tolerance in wild and cultivated Aspalathus Linearis in the Suid Bokkeveld, South Africa – 15 |
| 10h15 | TEA |
| 10h45 | Session 2: Aliens |
| | Tineke Kraaij: Seed bank and growth comparisons of native (Virgilia divaricata) and invasive alien (Acacia mearnsii and A. Melanoxylon) |
| | plants: implications for conservation - 15 |
| | Mlungele Nsikani: Acacia saligna's soil legacy effects: what do they do and for how long? - 15 |
| | Alistair Galloway: The impact of pine plantations on fynbos above-ground vegetation and seed soil bank composition - 15 |
| | Roderick Juba: Assessing ecological impacts of alien clearing methods along WC riparian zones, implications for ecosystem recovery - 15 |
| | Kelby English: Potential factors influencing the establishment success of Dicomada rufa, a biological control agent for Hakea sericea in SA6 |
| | Candice Lyons: Update to biocontrol endeavours against Hakea sericea in the Western Cape— Aphanasium australe and Dicomada rufa15 |
| | Thembelihle Mlokoti: Mortality of the leaf-mining moth, Aristaea thalassias (Lepidoptera: Myrtaceae), a biological control agent of |
| | Leptospermum laevigatum - 15 |

| | Jan-Hendrik Keet: Assessing the impacts of invasive legumes on soil conditions and microbial community composition in a biodiversity hotspot. |
|-------------------------|---|
| | -15 |
| | David Gwynne-Evans: Invasives of Newlands Forest - 6 |
| | Staci Warrington: Testing major plant-microbial mutualism hypotheses in invasion ecology: a case study using Australian acacias and rhizobia |
| | _6 |
| 13h00 | LUNCH |
| 14h00 | Session3: Fire |
| | Jasper Slingsby: Postfire regeneration in the Cape Floristic Region - 15 |
| | Glenn Moncrieff: Trait controls on post-fire recovery in the fynbos biome - 15 |
| | Hannah Simon: Unpacking a pixel: drivers of seasonality in vegetation greenness in fynbos - 6 |
| | Nyasha Magadzire: Role of fire in the distribution of vegetation in a Mediterranean-type ecosystem - 15 |
| | Nasiphi Ntshanga: Assessing the threat of landscape transformation and habitat fragmentation for ecosystems in the Fynbos Biome of South |
| | Africa - 15 |
| | Lena Alice Schmidt: An experimental study of plant-pollinator interactions along a post-fire succession gradient -6 |
| 15h30 | TEA & posters |
| 16h15 | · |
| | |
| 101110 | Session 4: Pathogens |
| 101113 | Joey Hulbert: Indigenous plant pathogens and their contributions to plant community diversity - 15 |
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| | Overhous words world. C |
|--------|---|
| | Overberg renosterveld - 6 Stuart Hall: Implications for management of lowland fynbos ecosystems resulting from restoration experiments in Cape Flats Sand Fynbos - 15 Johann van Biljon: Lessons learnt in implementing the Berg and Breede River Riparian Rehabilitation Programme (DEADP) - 15 Dean Impson: Moving forward with rotenone projects: rapid removal of non-native fishes from two farm dams and strong recovery of threatened fishes in a priority river for fish conservation - 15 Wessel Vermeulen: Planning for the rehabilitation of plantation "exit" areas in the Garden Route National Park - 6 Thabang Sibiya: Long-term monitoring of the recovery of fynbos in clearfelled pine plantations in the Garden Route, Western Cape - 6 Petro Botha: Taking urban conversation by the horns-the four legged approach 6 Johann van Biljon: An ecological approach to landscaping - 6 Stephanie Midgley: Using restoration of ecological infrastructure as an approach to climate change adaptation and mitigation for agriculture in the Fynbos Biome - 15 Bongani Mnisi: THE IINGCUNGCU PROJECT: Restoring nectar feeding birds, building biodiversity leadership 6 |
| 10h30 | TEA |
| 11h00 | Session 6: Sustainable use and cultivation Martina Treurnicht: Spatial variation in sensitivity of serotinous Proteaceae to wildflower harvesting inferred from large-scale demographic data in the Cape Floristic Region – 15 Hildegard Crous: Disa barbata and other terrestrial orchids of the Fynbos Biome - surprises and experiences - 15 Timothy Macqueen: Re-opening the case for wild Frankenflora: testing Protea species for hybidization using DNA and HRM analysis - 15 Nicholas Galuszynski: How can farmers help in conserving the evolutionary potential of Honeybush (Cyclopia spp)? - 15 |
| 12h25 | Session 7: Climate Change Edmund February: Collapse of an iconic conifer: Long-term changes in the demography of Widdringtonia cedarbergensis using repeat photography -15 Andrew Turner: Climate, fire and frogs: a sign of things to come? - 6 Tanisha Williams: Predicting Plant Responses to Climate Change in a Biodiversity Hotspot - 15 |
| 13h00 | PACKED LUNCH |
| | Fieldtrips |
| 401-00 | DINNED AND DIGGO |
| 19h00 | DINNER AND DISCO Thursday |
| 8h00 | Late registration and Tea |
| 8h30 | Pam Booth- The Knysna Fires |

| 9h00 | |
|-------|--|
| 01100 | Session 8: Planning and Management |
| | Alana Duffell-Canham: The 2017 Western Cape Biodiversity Spatial Plan - 15 |
| | Julia Wood: The doughnut of protected areas management in the city of Cape Town - 6 |
| | Kerry Maree: TMFs contribution towards implementing the Western Cape Protected Area Expansion -15 |
| | Odette Curtis: Gains and Losses in the Renosterveld: are we winning or losing? - 15 |
| | Clive McDowell: Lowland Natural Corridors in Greater Cape Town: the M3 Road Verge, Constantia as a Case Study - 15 |
| | Fezile Mathenjwa: Thinking ahead: making sure we have an insurance policy for our threatened plant species - 15 |
| 10h30 | TEA |
| 11h00 | Planning and Management continued |
| | Rupert Koopman: Marasmodes : a Canary in the donut - 15 |
| | Ismail Ebrahim: Hands off! Identifying critical habitat sites for threatened plant species - 15 |
| | Dale Wright: Bird-friendly: Habitat Management Guidelines for the endemic birds of the Fynbos Biome - 15 |
| | Louis Van Wyk: Living alongside meso-predators on an eco-sensitive estate - 6 |
| | Felicia Magutywa: Effects of various Wastewater Effluent Discharge on Environmental and Biological Conditions of the Vygekraal and Kuils |
| | Rivers downstream of Athlone and Zandvliet WWTWs respectively 15 |
| | Joshua Gericke: Estuary mouth breaching as an emergency control measure for Prymnesium parvum: A Zandvlei case study - 6 |
| | David Le Maitre: Protecting the Strategic Water Source Areas of the Fynbos Biome for water security under climate change - 15 |
| | Maya Beukes: PRESENCE: Using knowledge to build a living landscape - 15 |
| | Julia Wood: Biodiversity planning forum - 6 |
| 13h00 | LUNCH |
| 14h00 | Session 9: Citizen Science |
| | Sophia Turner: How the Ant taught Scholars about Science – a story by limbovane Outreach Project - 15 |
| | Georgina van Biljon: Environmental education opportunities in aftercare facilities in the Cape Winelands 6 |
| | Michael Henshall: Cape leopards and human-wildlife conflict |
| | Randall Josephs: Citizen scientist at work: Collecting long-term monitoring data 15 |
| | Joey Hulbert: Revealing hidden threats to fynbos biodiversity with citizen science - 15 |
| | Louise Matschke: Changing lives through nature- Reconnecting people to nature; the CEET creche to career model explained - 15 |
| | David Gwynne-Evans: CASABIO - The potential of citizen science - 15 |
| | Boitshekwane Kgantsi: Table Mountain Fund (TMF) Small Grant Programme - 15 |
| 15h45 | Prize giving |

Posters:

- Keir Lynch: Watercourse Restoration in the Rûens Renosterveld
- Andrea Von Gunten: The Muizenberg East Conservation Cluster: Using camera traps as a tool for wildlife monitoring on fragmented habitats within an urban environment
- Luke Gallant: iSpot UPGRADE 2017
- Fabrice Turikumwe: Hippopotamus (Hippopotamus amphibuis) introduction into the Rietvlei section of Table Bay Nature reserve: How many can be accommodated?
- Angelique Van den Berg: Calculating relative abundance of Cape Grysbok using camera traps and drive counts at Table Bay Nature Reserve, Milnerton Racecourse Section.
- Lief Theron: Will there be enough water? The effects of climate change on the Western Cape's water supply
- Hadley-John Lyners: The Cape Leopard Trust Environmental Educational Project
- Julia Wood: Conservation targets in the City of Cape Town
- Nomama Mei: Fynbos vegetation is naturally adapted to fire and requires regular burning for its persistence.
- JP Groenewald: Invertebrate diversity of Haarwegskloof Renosterveld Reserve
- Natanya Dreyer: FROM SCIENTIFIC TO SIMPLE: Bridging the communication gap between the natural and social sciences
- *Ntombikayise Lolwane*: The site occupancy and species richness of medium to large sized mammal species in the Steenbras Nature Reserve
- Sally Reece: The extent and condition of the remaining remnants of Lourensford Alluvium Fynbos
- *Ntombikayise Leago Lolwane*: The site occupancy and species richness of medium to large sized mammal species in the Steenbras Nature Reserve

WORKSHOP

CASABIO: Road and Rail Reserve Workshop

David Gwynne-Evans (CEO of CASABIO.org)

Introduction

For over 30 years there has been increasing levels of roadside "maintenance" taking place leading to an unprecedented loss of biodiversity in corridors that are frequently last bastions of local vegetation. Implementation has become increasingly sophisticated and coordinated across nearly all roads and includes bulldozing, grading, brushcutting and herbiciding of roadside vegetation.

Much has changed in the intervening years regarding our understanding of biodiversity and the important role it plays in providing ecosystem services. The National Environmental Management: Protected Areas Act (57 of 2003) was signed into effect. In 2004 the entire Cape Floral Region was declared a World Heritage Site on account of its diversity, density and number of endemic plant species. In 2007 a UNESCO report was published on the threats of climate change to biodiversity within the CFR which recognized that biodiversity is threatened by shrinking bioclimatic habitats due to warming and changes in precipitation. Indeed, this year has been the year of Level 4 drought in the Cape Town area and unprecedented fires in the Knysna area fueled by dry brush due to a lack of rain.

In 2005 the Delaware Department of Transportation published their roadside vegetation concept and planning manual. This was developed to reduce maintenance effort while enhancing visual appeal, but laid out many important principles including addressing visual and safety concerns. In 2006, Esler and Milton published their paper on best practice in road, power line and rail reserves. This important document gave an excellent overview of the topic as well as providing solutions and management plans. In 2016, Collinson and Patterson-Abrolat of EWT addressed the issue of wildlife and roads, entitled "The Road Ahead".

We are now at a critical junction, with many programmes rolled out across the country that compromise the integrity of our roadside vegetation to the detriment of road users, plant and animal life. We have an opportunity to present an alternative management scheme that respects biodiversity while providing useful jobs. This includes the creation of the longest and most species rich reserve in the world that combines road, rail and electrical reserves: Project SATRN.