

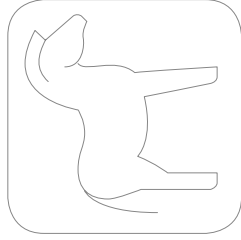


SOUTHERN AFRICAN
WILDLIFE MANAGEMENT
ASSOCIATION



**Sustainable
landscapes for
wildlife conservation
and management**

Programme: 1 –5 September 2019
Wilderness Hotel, Wilderness, Western Cape





The Southern African Wildlife Management Association (SAWMA) is an independent, voluntary, non-profit professional body, founded in 1970.

The association represents a multi-disciplinary membership and is involved with the science and management of wildlife and other renewable natural resources. It includes the various disciplines, such as wildlife research, conservation science, ecology, genetics, animal science etc.

The main function of SAWMA is to promote the common interest of our membership by publishing research articles in a scientific journal, African Journal of Wildlife Research, organising an annual conference and providing our members with news and other information, thereby keeping all abreast of the latest research and development and setting a code of ethics and standards for wildlife management and wildlife research.

VISION

SAWMA is dedicated to the conservation and wise management of the wildlife resources of southern Africa.

Primary Objectives

- *To provide a forum for communication between wildlife managers in southern Africa*
- *To encourage research and publish a scientific journal devoted to results of such research*
- *To provide a reference and liaison service to members through a regular newsletter*
- *To assist in the co-ordination of wildlife research in southern Africa*
- *To provide professional and technical expertise.*

Online membership registration: www.sawma.co.za/join-now

Membership enquiries: SAWMA Secretariat Tel: +27 (0)21 554 1297 | **Email:** elma@mweb.co.za

www.sawma.co.za

Sustainable landscapes for wildlife conservation and management

SCIENTIFIC COMMITTEE:

Jan Venter (Scientific Programme Co-ordinator -
(Nelson Mandela University))

ABSTRACT REVIEW COMMITTEE:

Tineke Kraaij, Herve Fritz, Lain Pardo-Vargas, Bianca Currie,
Kelly Marnewick, Robyn Hetem, Frans Radloff, Craig Tambling,
Dan Parker, Michael Somers, Maartin Strauss, Chloe Guerbois

HOST: Nelson Mandela University:

School of Natural Resource Management, Saasveld Campus



NELSON MANDELA
UNIVERSITY



Call for papers

Published by the Southern African Wildlife Management Association, the African Journal of Wildlife Research is an ISI ranked, leading peer reviewed scientific publication in wildlife research in Africa, Arabia and Madagascar, with a broad base covering scientific, applied, managerial, methodological and sociological issues related to wildlife research.

The journal publishes original full-length scientific papers, short communications, book reviews as well as reviews on science-based research invited by the editor-in-chief. This research journal and has been published annually since 1971.

We invite you to submit your research paper presented at the conference for consideration using the online submission system:

www.editorialmanager.com/sawma/default.aspx

Prof Dan M Parker
EDITOR-IN-CHIEF
University of Mpumalanga
School of Biology and Environmental Sciences
Mbombela
1200

Email: daniel.parker@ump.ac.za | Tel: +27(0)13 0020223

FROM	TO	SUNDAY, 1 SEPTEMBER
14h00		ARRIVAL <i>and checking in</i>
15h00	17h30	REGISTRATION
18h00		WELCOME Cocktail function
<i>Student information session and presentation support - Conference hall</i>		

MONDAY, 2 SEPTEMBER		
7h30	8h00	REGISTRATION
8h00	8h15	OPENING Prof. Andrew Leitch (DVC-Research Nelson Mandela University)

SESSION CHAIR: JAN VENTER

THEME 1: MANAGING BIODIVERSITY IN THE FACE OF DISTURBANCE AND EXTREME EVENTS				
8h15	9h00	Keynote 1	Dr. Tineke Kraaij	Severity of the recent extreme southern Cape fires in perspective, and implications for biodiversity.
9h00	9h15	Full	Strydom, Tiaan	The effect of fire on bird communities in subtropical dune thicket in the southern Cape Floristic Region.
9h15	9h20	Speed	Mukwevho, Rinae	Exploring how extreme temperature events influence movement patterns of giraffes at Rooipoort Nature Reserve, Northern Cape Province.
9h20	9h35	Full	Pretorius, Mariëtte	Climatic correlates of migrant <i>Miniopterus natalensis</i> phenology in north-eastern South Africa.

MONDAY, 2 SEPTEMBER (CONT.)

9h35	9h40	Speed	Blignaut, Nicole	<i>Metrosideros excelsa</i> : its ecology, invasive status and options for control in South Africa.
------	------	-------	------------------	---

9h40	9h55	Full	Bastos, Armanda	Extreme male-biased mortalities in mammals: intervention and prevention.
------	------	------	-----------------	--

10h00 11h00 BRUNCH

SESSION CHAIR: JEANETTA SELIER

11h00	11h15	Full	Blanckenberg, Michelle	The effects of landscape level changes in land use on mammal communities and mesopredator conflict in the SKA region of the Northern Cape, South Africa.
-------	-------	------	------------------------	--

11h15	11h20	Speed	Hofmeyr, Declan	How big is too small?: Experiences in managing instinctively migratory large mammals in a fenced protected area during a drought.
-------	-------	-------	-----------------	---

11h20	11h25	Speed	Jansen van Vuuren, Amaurée	The characteristics of feeding sites used by five specialist browser species in a fragmented Fynbos and Renosterveld ecosystem.
-------	-------	-------	----------------------------	---

11h25	11h30	Speed	Swanepoel, Hermanus	The implications of transformed landscapes on the occupancy of five specialist browser species in a Lowland Fynbos and Renosterveld ecosystem.
-------	-------	-------	---------------------	--

11h30	11h35	Speed	Ray, Leanne	Population dynamics of leopards in the Magaliesberg Biosphere Reserve.
-------	-------	-------	-------------	--

11h35	11h50	Full	Botha, Gert	Impacts of cattle grazing (<i>Bos taurus</i>) pressure on vegetation and soil characteristics in an arid grassland of South Africa.
-------	-------	------	-------------	---

11h50	12h05	Full	McManus, Jeannine	Effects of short-term intensive trampling on Karoo vegetation.
-------	-------	------	-------------------	--

12h05	12h10	Speed	Nokubonga, Mqgatsa	Diet and feeding ecology of aardvark (<i>Orycteropus afer</i>) in the Great Fish River Nature Reserve.
-------	-------	-------	--------------------	--

MONDAY, 2 SEPTEMBER (CONT.)

12h10	12h15	Speed	Havemann, Kobus	Seasonal dietary composition of white rhinoceros on Karongwe Game Reserve.
12h15	12h30	Full	Marneweck, David	Effects of space use on fitness in African wild dogs.
12h30	12h45	Full	Mpakairi, Kudzai Shaun	Futuristic climate change scenarios predict a shrinking habitat for the African elephant (<i>Loxodonta africana</i>): evidence from Hwange National Park, Zimbabwe.

12h45 13h15 COFFEE BREAK

SESSION CHAIR: JOHANNA TAYLOR

THEME 2: METHODS AND APPROACHES FOR WILDLIFE MANAGEMENT AND CONSERVATION

13h15	13h30	Full	Vermeulen, Mika	Mammal Assemblage Integrity Index: a tool for measuring protected area effectiveness in mammal biodiversity conservation.
13h30	13h35	Speed	Burt, Chloe	Assessing the effectiveness of different methods for monitoring mammal diversity in arid ecosystems across land tenures in South Africa.
13h35	13h50	Full	van der Merwe, Vincent	When does fencing and metapopulation management become necessary for the conservation of wild Cheetah (<i>Acinonyx jubatus</i>) populations?
13h50	14h05	Full	Smyth, Lucy	Can leopard pelage patterns be used to determine relatedness?
14h05	14h10	Speed	Martens, Francis	A comparative study of bird flight height: man vs photogrammetry.
14h10	14h25	Full	Fàbregas, María	Rehabilitation method affects welfare and adaptation potential for subsequent release of orphaned white rhinoceros.

MONDAY, 2 SEPTEMBER (CONT.)

14h25 14h30 Speed Fourie, Pierre The application of digital soil mapping to South Africa's protected areas: A study of Phinda Private Game Reserve.

14h30 15h00 COFFEE BREAK

SESSION CHAIR: MICHAEL SOMERS

15h00 15h15 Full Southgate, Richard Sign-based surveys for vertebrates across arid and semi-arid Australia using 2ha plots: occupancy estimates for key species from the Great Sandy and Great Victoria Deserts.

15h15 15h20 Speed Kuhn, Jeaneme Non-invasive Analytical Methods for the Analysis of Heavy Metals and Minerals in Giraffes (*Giraffa camelopardalis*).

15h20 15h25 Speed Janse van Rensburg, Amaria Analysis of the effect of heavy metal distribution on the browsing patterns of giraffes (*Giraffa camelopardalis*).

15h25 15h40 Full Brooke, Christopher Using the present to uncover the past: Reconstructing the ecology and behaviour of extinct large mammals on the Palaeo-Agulhas Plain (south coast, South Africa).

15h40 15h55 Full Hartmann, Wesley First guidelines and ethical protocol for surveying African elephants (*Loxodonta africana*) with an unmanned aerial vehicle.

15h55 16h00 Speed van Leeuwen, Maira The effect of harvesting method and short-term storage on the viability of epididymal African buffalo (*Syncerus caffer*) spermatozoa.

18h00 DINNER

19h30 STUDENT QUIZ

TUESDAY, 3 SEPTEMBER

7h30 8h00 REGISTRATION

SESSION CHAIR: JOSHAN MOODLEY

THEME 3: SOCIAL- ECOLOGICAL APPROACHES TO WILDLIFE MANAGEMENT

8h00	8h45	Keynote	Dr. Chloe Guerbois	Embracing the challenges and opportunities of wildlife conservation in the Anthropocene.
8h45	9h00	Full	Findlay, Leah	Assessment of chacma baboon crop preference as a foundation for developing crop foraging mitigation techniques.
9h00	9h15	Full	von Solms, Woudi & van der Merwe, Peet	Different types of land-use by the private wildlife industry of South Africa.
9h15	9h30	Full	Rutina, Lucas	Farmers Local Ecological Knowledge best predict risk of carnivore predation on livestock in northern Botswana.
9h30	9h35	Speed	Mills, Peter	Shifting paradigms and the relevance of South Africa's current conservation model.
9h35	9h40	Speed	Chetty, Keesha	Baboon crop raiding patterns and farmer perceptions of deterrent methods in Waboomskraal and Herold agricultural areas in the Western Cape, South Africa
9h40	9h55	Full	Gordon-Cumming, Ian	Participation: practical lessons from a provincial game reserve in North West province, South Africa.

10h00 11h00 BRUNCH

TUESDAY, 3 SEPTEMBER (CONT.)

SESSION CHAIR: MAARTIN STRAUSS

11h00	11h15	Full	Glenn, Ian	The corruptness of corruption: A rhino case study.
11h15	11h20	Speed	Wilkinson, Anita	Socio-economic and biophysical determinants of wire-snare poaching incidence and behaviour in the Boland Region of South Africa.
11h20	11h35	Full	Marnewick, Kelly	No more cheating with cheetahs: How effective regulation stopped illicit international trade in cheetahs from South Africa.
11h35	11h40	Speed	Glenn, Ian	Rhino poaching and community involvement: a critical examination of comparative approaches.
11h40	11h55	Full	Selier, Jeanetta	A national elephant strategy for South Africa.
11h55	12h10	Full	Minnie, Liaan	Animal welfare considerations for using large carnivores and guardian dogs as vertebrate biocontrol tools against other animals.
12h10	12h25	Full	Mann, Gareth	When love and hate collide: does conserving charismatic predators blind authorities to more mundane wildlife challenges?
12h25	12h30	Speed	Luaba, Kampinda	Robustness of local natural resource governance institutions: Lessons from Kaindu Community Conservancy, Zambia.
12h30	12h45	Full	Lucas, Chloe	Evaluating human-carnivore coexistence using a multi-stakeholder socio-ecological approach
12h45	13h15	COFFEE BREAK		

TUESDAY, 3 SEPTEMBER (CONT.)

SESSION CHAIR: PAUL GROBLER

THEME 4: CONSERVATION MANAGEMENT AND ITS EFFECTS ON SPECIES, FOOD-WEBS AND ECOSYSTEM FUNCTIONING

13h15	14h00	Keynote	Hone, Jim	Options for evaluation of wildlife species conservation and their relative strength of inference.
14h00	14h15	Full	Pardo, Lain	Land management strategies can increase the diversity and oil palm plantation use by terrestrial mammals in Colombia.
14h15	14h30	Full	Shumba, Tafadzwa	The role of private land conservation areas in conserving biodiversity and maintaining natural land cover.
14h30	14h45	Full	Schoeman, Zanri	The influence of both predator control and nest location on Cape gannet egg predation by Kelp gulls at Lamberts Bay.
14h45	15h00	Full	Nampa, Gosego	Association benefits between Harvester termites (<i>Trinervitermes trinervoides</i>) and Num-num plants (<i>Carissa bispinosa</i>) in a semi-arid savanna setting.
15h00	15h05	Speed	Graham, Lisa	Habitat use of southern white rhinoceros (<i>Ceratotherium simum simum</i>) in a small, fenced game reserve in South Africa.
15h05	15h30	COFFEE BREAK		
15h30	17h00	SAWMA AGM		
18h00	EVENING OFF - DINNER IN THE VILLAGE			

WEDNESDAY, 4 SEPTEMBER

7h30 8h00 REGISTRATION

SESSION CHAIR: KELLY MARNEWICK

THEME 4 (CONTINUED): CONSERVATION MANAGEMENT AND ITS EFFECTS ON SPECIES, FOOD-WEBS AND ECOSYSTEM FUNCTIONING

8h00	8h45	Keynote	Dr. Hervé Fritz	Web of ecological interactions and indirect effects of management decisions.
8h45	9h00	Full	van Aarde, Rudi	For elephants Kruger will never be the same again.
9h00	9h05	Speed	Ball, Daniel	Large tree utilization of the African elephant (<i>Loxodonta africana</i>) in the savanna biome.
9h05	9h10	Speed	Swartz, Yentl	African elephants (<i>Loxodonta africana</i>) in Madikwe Game Reserve: Measuring past and predicting future impacts.
9h10	9h15	Speed	Eggeling, Tammy	Developing parameters for the welfare of elephants in response to various management intensities and social structures.
9h15	9h20	Speed	Olivier, Jaco	Ecology, habitat evaluation and best practice habitat management for Cape mountain zebra (<i>Equus zebra zebra</i>) in the Western Cape, South Africa.
9h20	9h25	Speed	Olivier, Anel	Black Rhino (<i>Diceros bicornis minor</i>) feeding ecology and browse availability in Majete Wildlife Reserve, Malawi.

WEDNESDAY, 4 SEPTEMBER (CONT.)

9h25	9h30	Speed	Black, Wesley	Objective home range analysis of GPS collared ungulates using plants and soils as potential prediction indicators.
9h30	9h35	Speed	Taljaard, Izak	Nutrient effect on browsing preferences of giraffe (<i>Giraffa camelopardalis</i>) in semi-arid savannas of South Africa.
9h35	9h40	Speed	De Vos, Charli	Influence of long-term predation risk and habitat complexity on cheetah behavioural responses to short-term predation risk.
9h40	9h45	Speed	Sievert, Olivia	Investigating early post-release movements and establishment of reintroduced cheetah in Liwonde National Park, Malawi.
9h45	10h00	Full	Reece, Sally	Conservation management in confined space: does anthropogenic action influence large mammal space use?
10h00	11h00	BRUNCH		
11h00	11h15	Full	Geenen, Kayla	Artificial water point utilisation by selected herbivores in Majete Wildlife Reserve, Malawi.
11h15	11h30	Full	Shams, Ali	Water management practices implemented for Asiatic Cheetah (<i>Acinonyx jubatus venaticus</i>) conservation in Miandasht Wildlife Refuge, Iran to decrease Climate Change effects.
11h30	11h35	Speed	Robinson, Amouré	The influence of water availability on the spatial distribution of African mammalian herbivores.
11h35	11h40	Speed	Taylor, Johanna	Influence of camera trap deployment on spatial capture recapture estimates of South African servals (<i>Leptailurus serval</i>).

WEDNESDAY, 4 SEPTEMBER (CONT.)

11h40	11h55	Full	Smuts, Bool	Counting the spots puts management on the spot. Evidence-based leopard management imperatives.
11h55	12h00	Speed	Fouché, Jeanette	Prey selection of spotted hyaenas (<i>Crocuta crocuta</i>) on Pro-Namib farmlands of Namibia .
12h00	12h05	Speed	Honiball, Terry-lee	A preliminary assessment of spotted hyaena (<i>Crocuta crocuta</i>) density within Madikwe Game Reserve.
12h05	12h10	Speed	Comley, Jessica	Spatial utilisation of a multi-carnivore community in an enclosed African system.
12h10	12h25	Full	Melville, Haemish	Validating random encounter models to estimate black-backed jackal populations.
12h30	13h00	COFFEE BREAK		
13h00	13h05	Speed	van Bosch, Gerhard	The genetic status of freshwater mussels (<i>Unio caffer</i>) in central South Africa.
13h05	13h20	Full	Grobler, Paul	The genetic status of the introduced giraffe population in the Free State Province, South Africa.
13h20	13h35	Full	Moodley, Yoshan	Ongoing gene flow between ancestral lineages may have hindered the evolution of specialization in black and white rhinoceros.
13h35	13h50	Full	Dalton, Desiré	Lessons for conservation management: monitoring temporal changes in genetic diversity of Cape mountain zebra (<i>Equus zebra zebra</i>).

WEDNESDAY, 4 SEPTEMBER (CONT.)

13h50	14h05	Full	Naude, Vincent	Under the skin of a culture: DNA-based assignment reveals a transnational trade in illegal leopard skins across southern Africa.
14h05	14h10	Speed	Olivier, Iain	Lion (<i>Panthera leo</i>), Livestock and Wildlife Interactions in the Kuku Group Ranch Pastoralist Area, Kenya.

14h15 14h45 COFFEE BREAK

SESSION CHAIR: FRANS RADLOFF

THEME 5: WILDLIFE MANAGEMENT IN PERI-URBAN LANDSCAPES

14h45	15h00	Full	Leighton, Gabriella	Poisoned chalice? Spatial foraging patterns in Cape Town's caracal reveal a potential ecological trap.
15h00	15h15	Full	Stelli, Samanta	The investigation of sustainable and humane methods of rock hyrax (<i>Procapra capensis</i>) population management in an urban office park.
15h15	15h20	Speed	Bettings, Isabella	Habitat variations influencing the frequency of bird strikes in high air traffic areas within the George airport .
15h20	15h25	Speed	Schultz, Brittany	Medium-sized mammal diversity, abundances and changes perceived by stakeholders on agricultural buffer properties in the Boland, Western Cape.
15h25	15h30	Speed	Brown, Mark	ShareTheShores: conserving beach breeding birds in a dynamic urban context.

18h00 GALA DINNER & PRIZE GIVING

THURSDAY, 13 SEPTEMBER

07h00 09h00 BREAKFAST

08h30 DEPARTURE TO POST CONFERENCE FIELD TRIP (OPTIONAL)

15h00 END OF THE FIELD TRIP

NOTES





GLOBAL SUPPLIES

Your ONE-STOP Ranching Service

We specialise in

Wildlife Tracking Collars

Anabat Bat Detectors

Genetic Testing for Wildlife

Reserve and Lodge Management

Leaders in Wildlife Insurance

Helicopter Pilots

Anti-poaching

Fencing

Camera Traps

Capture Hoods

Pharmaceuticals

Wildlife Consulting

Management Plans

Game Capture

Mapping

EIA's

Elephant Management

Game Management Software (GMS)

Elephant Immuno-contraception

Tracking Solutions (personnel and livestock)

Sourcing of Top Quality Game

All Industry related Products

Wildlife Import / Export

Veterinary Services

JJ van Altena

DIRECTOR

Mobile: +27 (0) 82 417 0853

Office: +27 (0) 600 GLOBAL (455 225 1)

Fax: +27 (0) 86 458 5436

E-Mail: jj@globalsupplies.co.za

Jaco Mattheus

TECHNICAL ADVICE

Mobile: +27 (0) 82 468 6975

Fax: +27 (0) 86 590 6957

E-Mail: jaco@globalsupplies.co.za

www.globalsupplies.co.za

SPONSORS



Wildlife Pharmaceuticals
(Pty) Ltd



PROF. J. DU P. BOTHMA

PRINTING SPONSORED BY GLOBAL SUPPLIES

