



Ministry of
Tourism, Wildlife
& Heritage



WILDLIFE
RESEARCH
& TRAINING
INSTITUTE

Discover Beyond

1st Wildlife Scientific Conference 2023

THEME:

“Use of Wildlife Science for enhanced
Biodiversity Conservation and improved
Livelihoods”

01

Conference Essentials



About this event



Section 52 (1K) of the Wildlife Conservation and Management Act, 2013 provides for The Wildlife Research and Training Institute (WRTI) to organize symposia, conferences, workshops and other meetings to promote exchange of views on issues relating to wildlife research and training. Further, WRTI's Strategic Plan 2022-27 emphasizes on the importance of holding local and international seminars, workshops, conferences and excursions to promote dissemination and exchange of information.

In addition, the National Wildlife Strategy 2030 recommends biennial conferences in wildlife research as a priority activity to bring data and information to policy makers, managers and users for review. Further, to assist in planning and coordination with the goal of catalyzing innovation, developing new technologies and spurring investments to promote evidence-based wildlife conservation and management. Sessional paper No. 1 of 2020 on the National Wildlife Policy highlights the importance of the Government to promote the use of scientific knowledge and information in decision making. At the same time, the Government aims to develop mechanisms to ensure cross-sectoral linkages and consistent implementation of wildlife-related Multilateral Environmental Agreements (MEAs) and Sustainable Development Goals (SDGs). It is against this background that WRTI has organized its first wildlife scientific conference in Naivasha, Kenya from 26th to 28th September, 2023.



How to book

<https://conference.wrti.ac.ke/>



Rationale

Wildlife is a key driver of the tourism industry which is the second foreign exchange earner for the country. However, since independence the wildlife sector has experienced major challenges driven by anthropogenic and environmental factors. These include climate change, human-wildlife conflicts, diseases, loss of genetic viability, poaching for trophies and bushmeat, infrastructural development and human encroachment into wildlife areas. This has led to significant wildlife population decline, loss of connectivity, habitat loss and degradation. During the same period, the wildlife sector has undergone changes in terms of policy and legislative structures as well as wildlife conservation and management strategies in major ecosystems and landscapes.

To address the above challenges and enhance the socio-economic benefits from the wildlife resources, this inaugural wildlife scientific conference aims at bringing together conservation stakeholders and partners in line with the existing wildlife policy provisions and the Government's Bottom-up Economic Agenda. It is also expected to showcase scientific outputs, share experiences and expertise amongst scientists globally and recommend solutions to the aforementioned challenges. In addition, the Conference will act as a channel for disseminating information gathered internally and externally through wildlife research. It is envisaged that the conference will contribute into guiding policy development and decision making in the wildlife sector and therefore enhance optimized benefits from the wildlife resource to the Kenyan people and the world at large.



01

Conference Essentials



General Information

Venue and Dates

The WRTI 1st Wildlife Scientific Conference takes place at Lake Naivasha Resort, Naivasha - Kenya, from 26th -28th September, 2023.

Contact Address

Wildlife Research and Training Institute, Naivasha - Kenya.
Secretariat

Mobile Number: +254 797 169 435, +254 726 490340

Email: wrtiscicon2023@wrti.go.ke

Website: www.wrti.go.ke

Mobile Phone Policy

Delegates are advised to put their mobile phones either on silent mode or switched off during all conference sessions.

Language

The official language of the conference is English.

Conference registration hours

Tuesday, 26th September, 2023: 08.00 – 09.00 hrs

Wednesday, 27th September, 2023: 08.00 – 08.15 hrs

Thursday, 28th September, 2023: 08.00 – 08.30 hrs

Entry requirement

For international visitors to enter the country please visit www.mfa.go.ke for country specific information.

Lost and Found

For lost and found items, please contact the Information Desk at the registration area. However, participants are encouraged to keep their belongings safe.

Name badge

Your name badge is your entrance ticket to all sessions. Please, always remember to wear your badge throughout the conference. Participants without name badges will be denied access to conference rooms/sessions. If you lose your badge, a new one will be provided against proof of your original registration.

Wi-Fi/Internet connections

Wi-Fi will be available to all delegates. Participants will be informed of Wi-Fi access points during the conference.

Lunch and Coffee Breaks

Lunch and coffee/tea is included in the registration fee and will be served daily in the conference area.

Time Zone

The time zone is (UTC+03:00) Nairobi.

Banking

Banks and Bureau de Change are available at the airport and in all major towns. Banks are open in general from Monday to Friday between 0090 hrs and 1600 hrs, and Saturdays between 0900 hrs and 1200 hrs. Kindly note that banks are closed on Sundays and public holidays. ATMs with multinational financial services are available in Naivasha town.

Electricity current

The voltage in Kenya is 220 – 240 volts. The sockets require a 3 square pin plug.

Conference

Essentials



General Information

Security

Kenya is a safe country. However, like in any other country, reasonable precautions should be taken. Avoid walking alone at night and lock your valuables in your hotel safe. In case of any emergency, report to the nearest police station or call the conference secretariat Mobile Number: +254 797 169 435.

Hospitality

Kenyan people are warm-hearted and willing to help visitors.

Registration and conference payment

All participants are required to register and receive their conference materials at the registration desk. Registration will commence on **Tuesday 26th September, 2023 from 0800hrs East African time.**

Important: All participants are reminded to pay participation/ registration fees before the conference dates to avoid inconveniences. Payment details should be sent to wrtiscicon2023@wrti.go.ke

Jomo Kenyatta International Airport

It is located about 107 km from Naivasha town. It takes about two hours from Nairobi to Naivasha by road. Facilities available include banks, curio shops and restaurants. Cab services are available from the airport to Naivasha.

Accommodation

Naivasha town has numerous accommodation facilities ranging from five-star hotels to home-stay apartments. For assistance in booking, please contact wrtiscicon2023@wrti.go.ke or call the secretariat Mobile Number: +254 797 169 435, +254 726 490340

Weather

The weather in Naivasha during this time of the year is usually sunny and windy with temperatures ranging from 18 to 28°C.

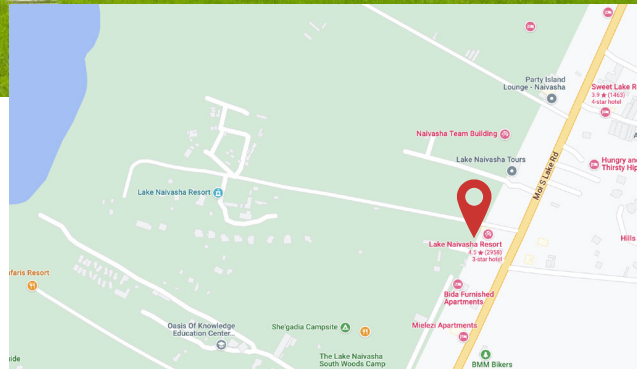
Sight-seeing and excursions

The event venue is within reach of two Protected Areas including Hell's Gate and Mt. Longonot National Parks. However, the world renowned Lake Nakuru National Park is about 70km from Naivasha. Also, within Lake Naivasha, boat safaris are organized on request by different operators. For further information, participants can contact wrtiscicon2023@wrti.go.ke or call the secretariat Mobile Number: +254 797 169 435, +254 726 490340



Location

Where to go



Location facilities



Address:

Lake Naivasha Resort is located along Moi South Lake Rd, just steps off the scenic Lake Naivasha

Phone:

0713 600002;

E-mail:

reservations@lakenaivasharesort.co.ke

03

General Program

THE WRTI 1st WILDLIFE SCIENTIFIC CONFERENCE IN KENYA, 26TH - 28TH SEPTEMBER, 2023

DAY 01

Tuesday 26th
September 2023

8.00 - 9.00

Registration – Kiboko Hall

9.00 - 11.30

Opening Ceremony – Kiboko Hall

11.30 - 12.00

Group Photo and Health Break

Presentations

12.00 - 12.45

Keynote Address One: Kiboko Hall

Conservation Science and Practice for Harmonised Policy Engagement - Lucy Waruingi

12.45 - 14.00

Lunch Break

14.00 - 16.50

Parallel Breakout Session 1 - Kiboko Hall

Sub-theme: Changes in wildlife population trends and dynamics

Parallel Breakout Session 1 -2-Way Hall

Sub-theme: Initiatives towards wildlife habitat restoration and connectivity

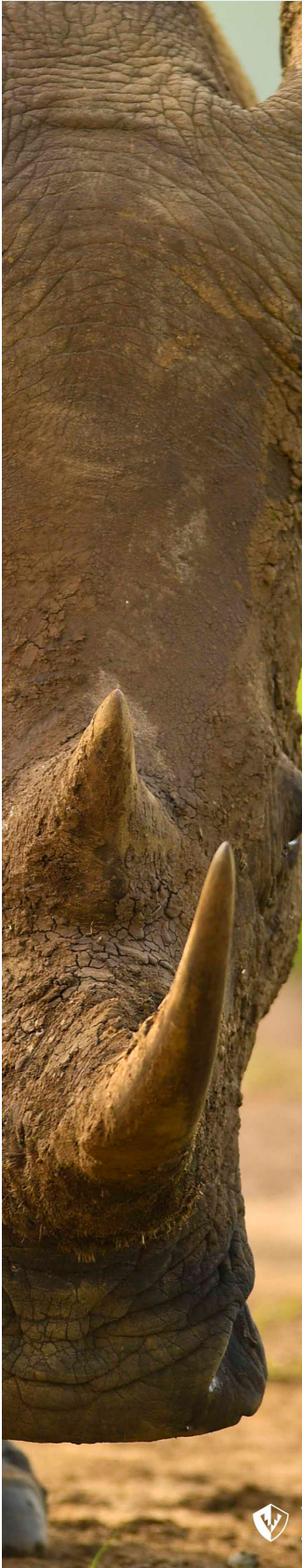
Parallel Breakout Session 1 - Acacia Hall

Sub-theme: Approaches to enhance human-wildlife coexistence in human-dominated landscapes



DAY 02

Wednesday 27th
September 2023



8.00 – 8.15

Registration

8.15 - 9.00

Keynote Address Two – Kiboko Hall

Infrastructure and conservation: the nexus for policy development by Dr. Ben Okita

9.00 – 9.45

Keynote Address Three - Kiboko Hall

Ecological monitoring and community enterprises by Dr. David Western

9.45 - 10.00

Launch of National IUCN Species Specialist Group

10.00 -10.30 Health Break

10.30 - 13.00

Parallel Session 2 – Kiboko Hall

Sub-theme: Changes in wildlife population trends and dynamics

Parallel Session 2 – 2-Way Hall 2

Sub-theme: Initiatives towards wildlife habitat restoration and connectivity

Parallel Session 2 – Acacia Hall

Sub-themes: Approaches to enhance human-wildlife coexistence in human-dominated landscapes, and Approaches to climate change mitigation and adaptability

13.00 - 14.00 Lunch Break

14.00 - 14.45

Keynote Address Four - Kiboko Hall

Remote Sensing and Natural Resource Surveys for Wildlife conservation and Management by Dr. Emmanuel Nkurunziza

14.45 - 16.45

Parallel Session 3- Kiboko Hall

Sub-theme: Changes in wildlife population trends and dynamics

Parallel Session 3 – 2-Way Hall

Sub-theme: Use of science for harmonized policy engagement

Parallel Session 3 – Acacia Hall

Sub-theme: Approaches to climate change mitigation and adaptability

16.45 -17.15

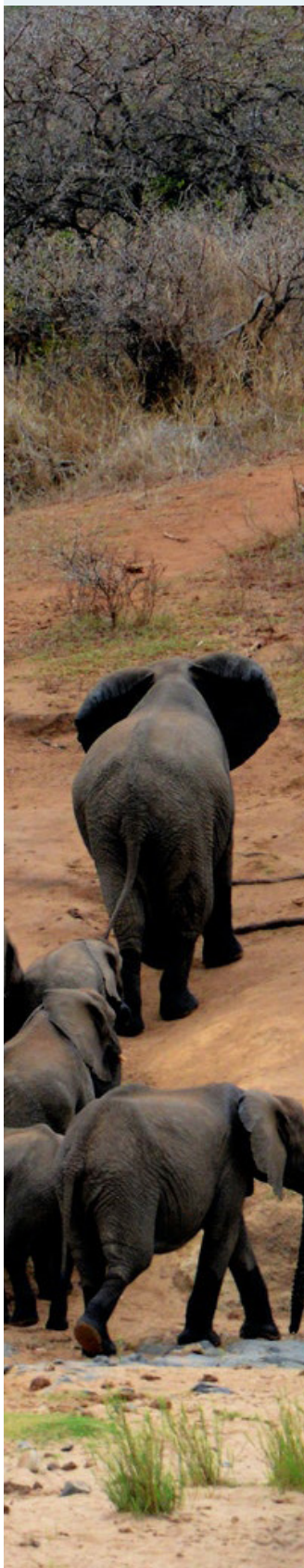
Health Break

17.15 - 20.00

Networking dinner

DAY 03

Thursday 28th
September 2023



8.00 - 8.15

Registration

8.15 - 9.00

Keynote Address Five – Kiboko Hall

Regulation of wildlife research in Kenya by Prof. Walter Oyawa

9.00 – 9.15

Role of research in the implementation of EAC Wildlife Strategy by Leo Niskanen

9.15 - 10.00

Parallel Session 4 – Kiboko Hall

Sub-theme: Addressing wildlife health challenges through One Health approach

Parallel Session 4 – 2-Way Hall

Sub-Theme: Use of new technology in addressing wildlife conservation challenges

Parallel Session 4 – Acacia Hall

Sub-Theme: Use of biotechnology and bio-prospecting for enhanced socio-economic benefits

10.00 -10.30 Health Break

10.30 - 13.00

Parallel Session 5- Kiboko Hall

Sub-theme: Addressing wildlife health challenges through One Health approach

Parallel Session 5- 2-Way Hall

Sub-Theme: Use of new technology in addressing wildlife conservation challenges

Parallel Session 5- Acacia Hall

Sub-Themes: Use of biotechnology and bio-prospecting for enhanced socio-economic benefits, and
Use of natural capital accounting systems and payment for ecosystem service for socio-economic benefits

13.00 - 14.00 Lunch Break

14.00 - 15.30

Parallel Session 6- Kiboko Hall

Sub-theme: Addressing wildlife health challenges through a One Health approach

Parallel Session 6- 2-Way Hall 3

Sub-Theme: Use of new technology in addressing wildlife conservation challenges, and Emerging alternative wildlife utilization and enterprises

Parallel Session - 6- Acacia Hall

Sub-Theme: Emerging alternative wildlife utilization and enterprises

Closing Ceromy

15.30 – 16.30 Recommendations and way forward

Dr. Patrick Omondi

16.30 – 17.30 Closing Ceremony

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04

Daily Program

DAY 01

Tuesday 26th September 2023

Opening Ceremony

Event/Paper	Responsible/Presenter
8.00 – 9.00 Conference Registration	Organizing committee
9.00 - 11.30 Opening ceremony	Event Organizer
11.30 – 12.00 Group Photo and Health Break	
Presentations	
12.00 -12.45 Keynote Address One - Conservation Science and Practice for Harmonised policy engagement - Kiboko Hall	Lucy Waruingi

DAY 1- PARALLEL SESSION 1- Kiboko Hall

Sub-theme: Changes in wildlife population trends and dynamics

Moderator: **Bernard Ngoru**

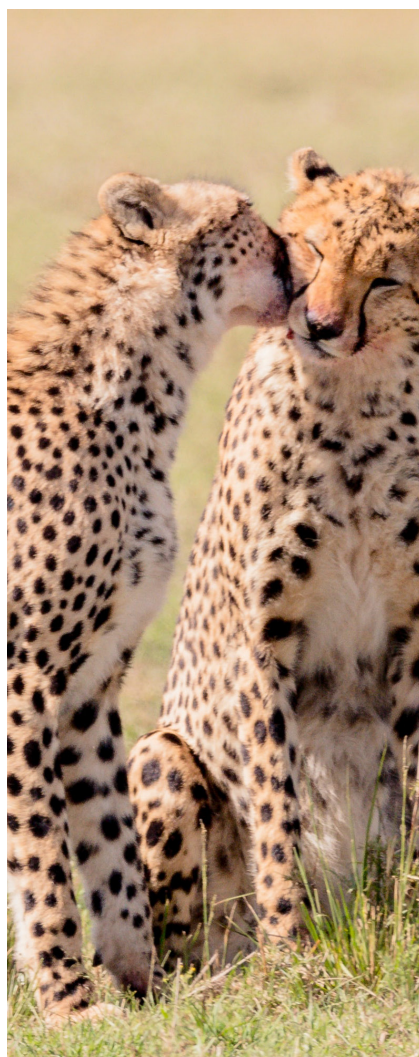
Event/Paper	Responsible/Presenter
14.00-14.20 Sub-theme Keynote Presentation	Prof. Joseph Ogutu
14.20– 14.35 Conservation Gains, Losses and the Future of Tana River Red Colobus and Tana River Mangabeys in the lower Tana River: Analysis of Four Decades Population Trends	Stanislaus Kivai et al.
14.35- 14.50 Development of a Science-Based Integrated Metapopulation Management Plan for the Kenyan Black Rhinoceros (<i>Diceros bicornis michaeli</i>)	Cedric Khayale et al.
14.50 - 15.05 A long-term study: Lion trends and dynamics in northern Kenya	Toby Otieno et al.
15.05 – 15.20 Africa's wilderness under threat – the case of wild dogs (<i>Lycaon pictus</i>) in Kenya's Kajiado County	George Mboya et al.
15.20 – 15.35 Anthropogenic disturbance induces opposing population	Kay E. Holekamp et al.

15.35 - 15.50	Avian diversity in different forest regimes in and around North Nandi Forest, Kenya.	Mark Cheruiyot Bett et al.
15.50 - 16.05	Birds in the matrix: the role of agriculture in avian conservation in the Taita Hills, Kenya	Philista Adhiambo Malaki et al.
16.05 - 16.20	25 Years of Long-Term Elephant Monitoring in Samburu	David Letitiya et al.
16.20 - 16.35	Long-term population and demographic trends among the Amboseli elephants.	Phyllis Lee et al.
16.35 - 16.50:	Q&A	

DAY 1- PARALLEL SESSION 1 - 2-Way Hall

Sub-theme: Initiatives towards wildlife habitat restoration and connectivity

Moderator: **Dr. Fred Omengo**



Event/Paper	Responsible/Presenter
14.00 - 14.20 Sub-theme Keynote Presentation	Dr. Paul Matiku
14.20 - 14.35 A spatial planning framework for informing integrated biodiversity and ecosystem service conservation and restoration	Gibbon Gwili et al.
14.35 - 14.50 Infrastructure and wildlife mortality: current research and future directions	Fredrick Lala et al.
14.50 - 15.05 Can market-based mechanisms enhance connectivity of landscapes? Lessons from Kasigau Corridor, Southern Kenya.	Geoffrey Mwangi and Tom Kiptenai
15.05 - 15.20 Distribution and seasonal movements of savannah elephants, (<i>Loxodonta Africana</i>) around Lake Jipe, a function of foraging resources	Muteti Zacharia Mutinda et al.
15.20 - 15.35 How anthropogenic features and threats contribute to shape cheetah, (<i>Acinonyx jubatus</i>) activities and connectivity	Cherie Schroff
15.35 - 15.50 Implementing community-based corridors to enhance wildlife connectivity	Benjamin Loloju et al.
15.50 - 16.05 Key biodiversity areas: preserving wildlife diversity for a sustainable future	Paul Gacheru et al.
16.05 - 16.20 Rangeland restoration for a refugee species: re-establishment of grass cover using large scale multi-site experiments in African Savanna	Ali Abdullahi et al.
16.20 - 16.35 Socio-economic and environment sustainability outcomes of the competing land use systems in northern Tanzania.	Lucas Yamat et al.
16.35 - 16.50	Q&A

DAY 1- PARALLEL SESSION 1 - Acacia Hall

Sub-theme:

Approaches to enhance human-wildlife coexistence in human-dominated landscapes

Moderator: **Dr. Festus Ihwagi**



Event/Paper	Responsible/Presenter
14.00 – 14.20 Sub-theme Keynote Presentation	<i>Prof. Noah Sitati</i>
14.20 – 14.35 Building a landscape of resilience: large carnivore governance and management implications of farmers' attitudes and livestock husbandry practices in a multicultural setting within Meru National Park, Kenya	<i>Kennedy Kariuki et al.</i>
14.35 – 14.50 Amboseli Trust for Elephants HECx Program – Learning how to coexist by understanding elephant behaviour.	<i>Lydia Tiller et al.</i>
14.50 – 15.05 Appraisal of the government and private compensation schemes for human wildlife conflict in Kenya	<i>Sarah M. Omusula et al.</i>
15.05 – 15.20 Assessing the drivers of attitude, tolerance and perception of local communities on elephants and human wildlife conflicts around Meru conservation area.	<i>Newton Simiyu et al.</i>
15.20 – 15.35 Behavior of rescued and rehabilitated elephant calves with an eye toward release success.	<i>Colman Lesowapir et al.</i>
15.35 – 15.50 Capabilities, opportunities, and motivations for poaching reticulated giraffe in central-northern Kenya.	<i>Symon Masiaine et al.</i>
15.50 – 16.05 Community engagement in vulture conservation in the southern rangelands of Kenya	<i>Paul Gacheru et al.</i>
1605-1620 Ewaso Lions – a story of community-led conservation	<i>Jeneria Lekilelei et al.</i>
16.20 – 16.35 Human-lion coexistence: Lessons learned from predator-proof bomas project in Amboseli-West Kilimanjaro ecosystem, Kenya and Tanzania	<i>David Manoa et al.</i>
16.50 – 17.05 Q&A	

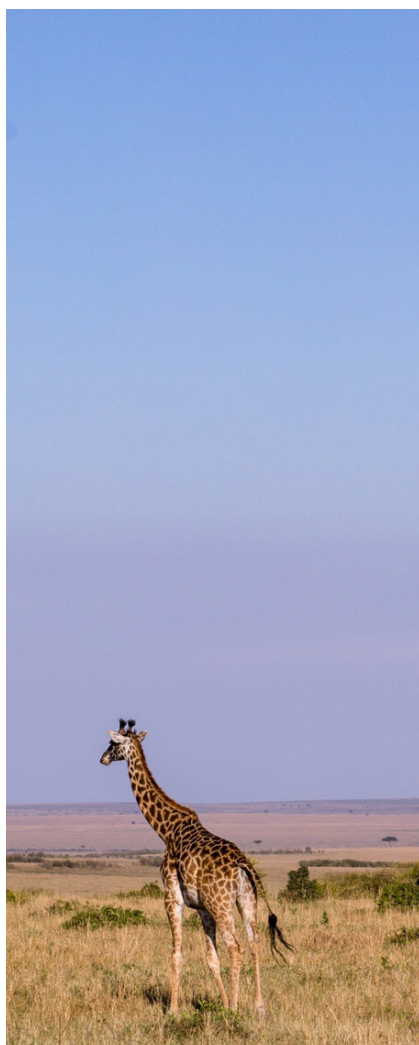
Moderator: **Sam Weru**

Event/Paper	Responsible/Presenter
8.00 - 8.30 Registration	
8.30 - 9.15 Keynote Address Three -Infrastructure and conservation: the nexus for policy development - Kiboko Hall	<i>Dr. Ben Okita</i>
9.15 - 10.00 Keynote Address Four - Ecological monitoring and community enterprises - Kiboko Hall	<i>Dr. David Western</i>

DAY 2- PARALLEL SESSION 2 – Kiboko Hall

Sub-theme: Changes in wildlife population trends and dynamics

Moderator: **Dr. David Manoa**



Event/Paper	Responsible/Presenter
10.30 - 10.45 Modelling distribution of Kirk's dik dik (<i>Madoqua kirkii</i>) in the Greater Tsavo Ecosystem.	<i>Fredrick Lala et al.</i>
10.45 - 11.00 Leopards' density and putative co-occurrence with spotted hyaena in the Maasai Mara ecosystem, Kenya	<i>Elena Chelysheva et al.</i>
11.00 - 11.15 Ecological factors influencing large herbivore distribution (LHD) in Ruma National Park of Homa Bay County, Kenya	<i>Luke Lukaria et al.</i>
11.15 - 11.30 Interaction between African leopards (<i>Panthera pardus pardus</i>) and olive baboons (<i>Papio anubis</i>) in Laikipia, Kenya.	<i>Laiyon Lenguya et al.</i>
11.30 - 11.45 Dynamics of herbivore distribution and habitat selection in the Greater Serengeti Ecosystem, Tanzania	<i>Hamza K Kija et al.</i>
11.45 - 12.00 A general age and sex-structured model of wildlife population dynamics illustrated by the Mara-Serengeti topi population	<i>Joseph Ogutu et al.</i>
12.00 - 12.15 Distribution and abundance of migrant birds and endangered mammals within Naivasha Wildlife Sanctuary, Kenya	<i>Peter Maina et al.</i>
12.15 - 12.30 Past outcomes and future directions for African elephant translocations	<i>Lydia Tiller et al.</i>
12.30 - 12'45 Pathways to human-giraffe conflict and coexistence in eastern Kenya	<i>Ali Abdullahi et al.</i>
12.45 - 13.00 Q&A	

DAY 2- PARALLEL SESSION 2 - 2-Way Hall

Sub-theme: Initiatives towards wildlife habitat restoration and connectivity

Moderator: **Dr. Judy Nyunja**



Event/Paper	Responsible/Presenter
10.30 - 10.45 Status, conservation threats and restoration of the Tarangire-Manyara (Kwakuchinja) wildlife corridor in Tanzania	<i>Julius Keyyu et al.</i>
10.45 - 11.00 The extent and impacts of invasive species on Wildlife habitat productivity	<i>Peter Maina et al.</i>
11.00 - 11.15 The impact of cattle foraging on habitats by Kenyan plains zebra (<i>Equus guagga</i>) and Grevy's zebra (<i>E. grevyi</i>)	<i>Daniel Rubenstein et al.</i>
11.15 - 11.30 The influence of elephants foraging on tree species regeneration and abundance in Arabuko-Sokoke Forest, Kenya	<i>Lynn Njuguna et al.</i>
11.30 - 11.45 The role of environmental, structural and anthropogenic variables on underpass use by African savanna elephants (<i>Loxodonta africana</i>) in the Tsavo Conservation Area.	<i>Michael Koskei et al.</i>
11.45 - 12.00 Tracking carbon allocation to unravel how mutualism and its breakdown affect tree dynamics in Laikipia, Kenya	<i>Elizabeth Pringle et al.</i>
12.00 - 12.15 Transfrontier elephant movements in the Kidepo ecosystem: evidence for connectivity across Uganda, Kenya and South Sudan	<i>Purity Milgo et al.</i>
12.15 - 12.30 Understanding the foraging behavior and dispersal patterns of red colobus monkey (<i>Priocolobus rufomitratu</i> s, Peters 1879) populations in natural and agro-ecosystems forests in Tana River Primate National Reserve, Tana River County Kenya	<i>Rose Abae et al.</i>
12.30 -12.45 Young male elephants – dispersal and exploration in Amboseli	<i>Vicki Fishlock et al.</i>
12.45 - 13.00 Q&A	

DAY 2- PARALLEL SESSION 2 – Acacia Hall

Sub-theme:

Approaches to enhance human-wildlife coexistence in human-dominated landscapes

Moderator: **Fredrick Lala**

Event/Paper	Responsible/Presenter
10.30 – 10.45 Impact of drought and development on the effectiveness of beehive fences as elephant deterrents over nine years.	<i>King, L. E et al.</i>
10.45 – 11.00 Late Holocene human interactions with the landscape in Eastern Africa	<i>Stephen Rucina et al.</i>
11.00 – 11.15 Nature and extent of human- hippopotamus conflict in Busega District, North- Western Tanzania	<i>Richard Lyamuya et al.</i>
11.15 – 11.30 The effectiveness of bomas with wire-fencing and lights at deterring livestock depredation and its influence on pastoralists' attitudes towards carnivore conservation.	<i>Ambrose Letoluai et al.</i>
11.30 – 11.45 The Elephant Queen: can a nature documentary improve tolerance for elephants?	<i>Harry Williams et al.</i>
11.45 – 12.00 Q&A	

Sub-theme:

Approaches to climate change mitigation and adaptability

Moderator: **Fredrick Lala**

Event/Paper	Responsible/Presenter
12.00 – 12.15 Are they the key to coral reef resilience? A temporal study from Kenya	<i>Said Hashim Omar et al.</i>
12.15 – 12.30 Assessing the Aberdare fire incidence in Kenya: causes, impacts, and multi-stakeholder-based approaches for effective mitigation	<i>Jared Asenwa Lumbasi et al.</i>
12.30 – 12.45 Assessment of vegetation changes in Kilombe Caldera, Baringo County Kenya; Inferences from micro botanical remains and current vegetation	<i>Rebecca Muthoni et al.</i>
12.45 – 13.00 Q&A	

Moderator: **Dr. Joseph Mukeka**

14.00 – 14.45 Keynote Address Five - Remote Sensing and Natural Resource Surveys for Wildlife conservation and Management- Kiboko Hall	<i>Dr. Emmanuel Nkurunziza</i>
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DAY 2- PARALLEL SESSION 3 – Kiboko Hall

Sub-theme: Changes in wildlife population trends and dynamics

Moderator: **Dr. Joseph Mukeka**

Event/Paper	Responsible/Presenter
14.45 – 15.00 Population distribution and abundance of the Common hippopotamus, <i>Hippopotamus amphibius</i> in Lakes Naivasha and Nakuru, Kenya	<i>Joseph Edebe et al.</i>
15.00 – 15.15 Rural socioeconomic trends, and not ecological competition with livestock, as a main driver of wildlife declines in East Africa.	<i>Lucas Yamat et al.</i>
15.15 – 15.30 Spatially-explicit future landscape scenarios for population growth of the African elephant	<i>Sospeter Kiambi, et al.</i>
15.30 – 15.45 Temporal dynamics in observations of rare antelope endemic to Shimba Hills National Reserve, Kenya.	<i>Benard Ochieng et al.</i>
15.45 – 16.00 The social structure and demographic status of the lion population in Meru National Park, Kenya.	<i>Alois Mweu et al.</i>
16.00 – 16.15 Wildlife and livestock in the Samburu and Buffalo Springs National Reserves: insights from 17 years of monitoring	<i>Giacomo D'Ammando et al.</i>
16.15 – 16.30 Lion (<i>Panthera leo</i>) monitoring and community conservation within the greater Mara ecosystem	<i>Kasaine Sankan et al.</i>
16.30 – 16.45 Q&A	

DAY 2- PARALLEL SESSION 3 - 2-Way Hall

Sub-theme: Use of science for harmonized policy engagement

Moderator: **Dr. George Njagi**

Event/Paper	Responsible/Presenter
14.45 – 15.00 Assessment of management effectiveness of the greater Mara and Mara Triangle conservation area: the case of Masai Mara national reserve, Siana, Oloisikut, and Ikinyei conservancies	<i>Judith Nyunja</i>
15.00- 15.15 Comparative analysis of wildlife governance approaches in African countries	<i>Frida D. Obare et al.</i>
15.15 – 15.30 Evidenced-based decision support for guiding biodiversity conservation strategies associated with urban growth and infrastructural development in East Africa.	<i>Anthony Macharia et al.</i>
15.30 – 15.45 Mainstreaming of birds conservation into energy sector- lessons in engaging in energy issues in Kenya	<i>Paul Gacheru et al.</i>
15.45 – 16.00 Morally contested conservation: Use of science for effective and inclusive policy implementation	<i>Betty Rono et al.</i>

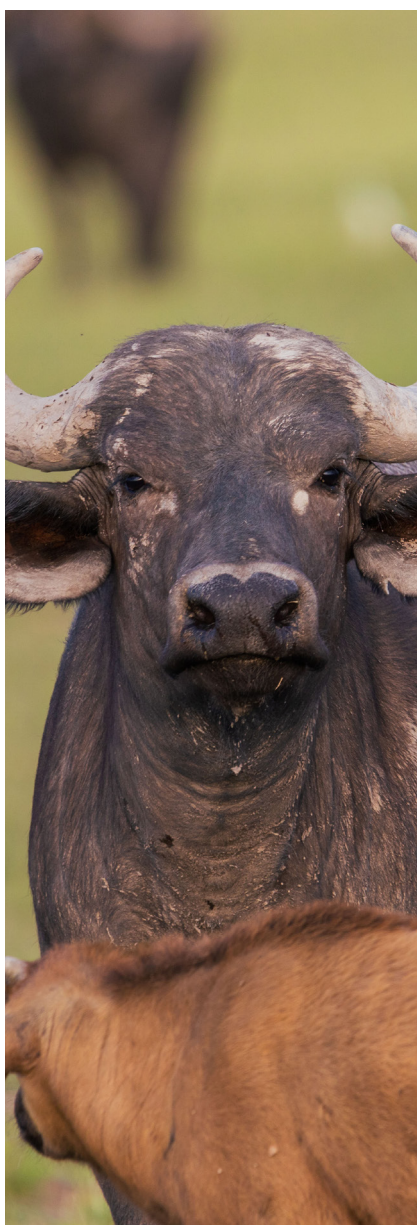
Event/Paper	Responsible/Presenter
16.00 – 16.15 The greater Mara monitoring framework: a practical model for linking scientific evidence to management and policy needs	<i>Holly T. Dublin et al.</i>
16.15 – 16.30 Q&A	

DAY 2- PARALLEL SESSION 3 - Acacia Hall

Sub-theme:

Approaches to climate change mitigation and adaptability

Moderator: **Dr. Mohammed Said**



Event/Paper	Responsible/Presenter
14.45 – 15.00 Sub-theme Keynote Presentation	<i>Prof. Daniel Olago</i>
15.00 – 15.15 Impacts of a severe drought on the Samburu elephants	<i>David Daballen et al.</i>
15.15 – 15.30 Developing drought mitigation measures for elephants in the Tsavo ecosystem by understanding long-term elephant distribution and mortality patterns in relation to NDVI, vegetation, and rainfall.	<i>David Kimutai et al.</i>
15.30-15.45 Effects of climate change on elephants population in Amboseli National Park in Kenya	<i>Lynnette Mwari Kiboro et al.</i>
15.45 – 16.00 A million-year vegetation history and palaeoenvironmental record from the Lake Magadi Basin, Kenya Rift Valley	<i>Kinyanjui, Rahab</i>
16.00 – 16.15 Modeling trends and variation in rainfall, temperature, NDVI, SOI and DMI in the Greater Mara-Serengeti Ecosystem: implications for biodiversity dynamics and conservation	<i>Veronica Muiruri</i>
16.15 – 16.30 Potential impacts of climate change on wildlife protected areas, a case study of Maasai Mara National Game Reserve	<i>Laban K. Rotich et al.</i>
16.30 – 16.45 Vulnerability assessment of <i>Chondrichthyan</i> species to fisheries in coastal Kenya: implications for conservation and management	<i>Benedict Kiilu et al.</i>
16.30 – 16.45 Q&A	

Moderator: **Dr. Vincent Obanda**

Event/Paper	Responsible/Presenter
8.00 - 8.15 Registration	
8.15 - 9.00 Keynote Address Six – Regulation of wildlife research in Kenya- Kiboko Hall	Prof. Walter Oyawa
9.00 - 9.15 Role of research in the implementation of EAC Wildlife Strategy	Leo Niskanen

DAY 3- PARALLEL SESSION 4 – Kiboko Hall

Sub-theme: Addressing wildlife health challenges through One Health approach

Moderator: **Dr. David Ndeereh**

Event/Paper	Responsible/Presenter
9.15 - 9.30 Sub-theme Keynote Presentation	<i>Prof. Eddy Mogo</i>
9.30 - 9.45 Recurrent anthrax outbreaks in humans, livestock and wildlife in the same locality, Kenya (2014-2017)	<i>Matthew Muturi et al.</i>
9.45 - 10.00 Evaluating temporal patterns of anthrax outbreaks in Kenya's wildlife and the control measures instituted to control and prevent anthrax events in the country	<i>Francis Gakuya et al.</i>

DAY 3- PARALLEL SESSION 4 – 2-Way Hall

Sub-theme: Use of new technology in addressing wildlife conservation challenges

Moderator: **Wycliffe Mutero**

Event/Paper	Responsible/Presenter
9.10 - 9.30 Sub-theme Keynote Presentation	<i>Dr. Jack Wall</i>
9.30 - 9.45 Compatibility of livestock and wildlife in human occupied rangelands: using traditional pastoralism to enhance conservation of lions in their wild prey in Laikipia, Kenya	<i>Annabella Helman et al.</i>
9.45 - 10.00 Combining technologies to examine human-lion interactions across scales for improved coexistence	<i>Lucrecia K. Aguilar et al.</i>

DAY 3- PARALLEL SESSION 4 – Acacia Hall

Sub-theme: Use of biotechnology and bio-prospecting for enhanced socio-economic benefits

Moderator: **Pricilla Mutungi**

Event/Paper	Responsible/Presenter
9.10 – 9.30 Sub-theme Keynote Presentation	Prof. Marion Mutugi
9.30 – 9.45 A New Gem: <i>Steganotaenia araliacea</i> , a new host plant for edible <i>Bunaea alcinoe</i> larva in Yatta plateau, Machakos, Kenya.	Alex Mutinda et al.
9.45 – 10.00 Bioprospecting for Thermophilic break-down of keratin-laden biomass waste	Francis Mula et al.

DAY 3- PARALLEL SESSION 5 – Kiboko Hall

Sub-theme: Addressing wildlife health challenges through One Health approach

Moderator: **Dr. David Ndeereh**

Event/Paper	Responsible/Presenter
10.30 - 10.45 Behavior and parasitism in a wild baboon population	Mercy Akinyi et al.
10.45 -11.00 Evidence of co-exposure with <i>Brucella</i> spp, <i>Coxiella burnetti</i> and Rift Valley fever virus among various species of wildlife in Kenya	James Akoko et al.
11.00 – 11.15 Conservation of lions in Samburu through improving domestic carnivore welfare	Solomon Lenasalia et al.
11.15 – 11.30 Gastrointestinal nematodes and physiology at the Livestock-Wildlife Interface in Kenya	Alice Burton et al.
11.30 – 11.45 Gastrointestinal parasite dynamics at the livestock-wildlife interface in Laikipia, Kenya	Andrew Halls et al.
11.45 - 12.00 Non-invasive assessment of ovarian activity in free-ranging eastern Black Rhinoceros (<i>Diceros bicornis michaeli</i>) in Kenya	Maureen Kamau et al.
12.00 - 12.15 Assessment of heavy metal contaminants in Nkenye Stream in Meru south – Kenya.	Samson Chabari et al.
12.15 – 12.30 A One Health approach to engaging communities better in long term elephant conservation.	Belinda Omollo et al.
12.30 – 12.45 Southern white rhino gifts to Aitong, Kenya - fly in the ointment?	Richard Kock et al.
12.45 – 13.00 Q&A	

DAY 3- PARALLEL SESSION 5 – 2-Way Hall

Sub-theme: Use of new technology in addressing wildlife conservation challenges

Moderator: **Joseph Edebe**

Event/Paper	Responsible/Presenter
10.30 – 10.45 Flooding of Lake Nakuru National Park and its effects on the resident wildlife	<i>Peter Hongo et al.</i>
10.45 – 11.00 Hippopotamus suitable habitat analyse in the Pendjari biosphere reserve using remote sensing and GIS tools	<i>GRM Adouke et al.</i>
11.00 – 11.15 Impacts of the Loisaba Conservancy rhino fence on the behavior of other wildlife species	<i>Rita Orahle et al.</i>
11.15 – 11.30 Enhancing Mapping of Illegal Wildlife Trade Hotspots in Kenya: Integrating Market Survey and Confiscated Wildlife Meat Analysis	<i>Antoinette Miyunga et al.</i>
11.30 – 11.45 Introducing a new HEC toolbox and trainer of trainers workshops to enhance human-elephant co-existence.	<i>Ewan Brennan et al.</i>
11.45 – 12.00 Keeping watch on Olgulului Ololarashi group ranch, Amboseli, Kenya	<i>Wycliffe Mutero et al.</i>
12.00 – 12.15 Leveraging AI and satellite to push the boundary of wildlife survey technologies	<i>Tiejun Wang et al.</i>
12.15 – 12.30 Photo Identification as a tool to study sea turtle populations in Kenyan Marine Protected Areas	<i>Leah Mainye et al.</i>
12.30 - 12.45 Q&A	

DAY 3- PARALLEL SESSION 5 – Acacia Hall

Sub-theme i: Use of biotechnology and bio-prospecting for enhanced socio-economic benefits ii) Emerging alternative wildlife utilization and enterprises

Moderator: **Priscilla Mutungi**

Event/Paper	Responsible/Presenter
10.30 – 10.45 Effective access and benefit sharing systems key for wildlife conservation and livelihoods improvement.	<i>Mukonyi Kavaka et al.</i>
10.45 – 11.00 Promoting a new species of Cotesia as a first biological control agent against the Mediterranean corn borer, an expanding pest	<i>Calatayud Paul-André et al.</i>
11.00 – 11.15 The use of cryopreservation in species conservation: Nature's SAFE The Living Biobank.	<i>Susan Walker et al.</i>
11.15 – 11.45 Community perceptions on the enhancement of avitourism activities in Arabuko Sokoke Forest in Kilifi County, Kenya.	<i>Jairus Koki et al.</i>
11.45 – 12.00 Q&A	

Sub-theme ii: Use of natural capital accounting systems and payment for ecosystem service for socio-economic benefits

Event/Paper	Responsible/Presenter
12.00 – 12.20 Sub-theme Keynote Presentation	<i>Bernard Opa</i>
12.20 -12.35 Implementing payment for ecosystem services scheme in Kenya: The case of Lake Naivasha Basin.	<i>Weru Sammy et al.</i>
12.35 – 12.50 Dakatcha woodland ecosystem service assessment	<i>Paul Gacheru et al.</i>
12.50 - 13.00 Q&A	

DAY 3- PARALLEL SESSION 6 - Kiboko Hall

Sub-theme i: Addressing wildlife health challenges through One Health approach

Moderator: **Dr. Francis Gakuya**

Event/Paper	Responsible/Presenter
14.00 – 14.15 Seroprevalence of <i>Neospora caninum</i> in spotted hyena populations in areas of high and low anthropogenic activity in the Maasai Mara National Reserve, Kenya	<i>Marsden Onsare et al.</i>
14.15 – 14.30 The physiological condition of orphaned African elephants	<i>Jenna Parker et al.</i>
14.30 – 14.45 Variability in water quality parameters within Kenyan Rhino areas and potential toxicity from water uptake.	<i>Fred Omengo et al.</i>
14.45 – 15.00 Using a One Health Approach to address Wildlife Disease Challenge	<i>Marilyn Karani et al.</i>
15.00 - 15.15 Q&A	



DAY 3- PARALLEL SESSION 6 – 2-Way Hall

Sub-theme: Use of new technology in addressing wildlife conservation challenges
ii) Emerging alternative wildlife utilization and enterprises

Moderator: **Dr. Daniel Chai**

Event/Paper	Responsible/Presenter
14.00 – 14.15 Post-release behavior of rehabilitated and released elephant calves in Sera Rhino Sanctuary, Kenya	<i>Lemerketo Samuel Loidialo et al.</i>
14.15 – 14.30 Real-time water quality monitoring using innovative Wireless Sensor Network technology: A pilot study in Lake Nakuru, Kenya	<i>Kipkemboi J et al.</i>
14.30-14.45 Status of animal forensics in Kenya with focus on wildlife	<i>George E. Otianga Owiti</i>
14.45-15.00 Using GPS tracking data to assess elephant movement in relation to risk	<i>Festus Ihwagi et al.</i>
15.00 – 15.15 No-Take or Regulated-Take?	<i>Said, Hashim Omar et al.</i>
15.15 -15.30 Q&A	

DAY 3- PARALLEL SESSION 6 – Acacia Hall

Sub-theme: Emerging alternative wildlife utilization and enterprises

Moderator: **Mukonyi Kavaka**

Event/Paper	Responsible/Presenter
14.00 -14.20 Sub-theme Keynote Presentation	<i>Dr. Daudi Sumba</i>
14. 20 -14.35 Inventory of wild mushrooms from Central and Nairobi regions in Kenya	<i>Susan Kabacia et al.</i>
14.35 – 14.50 Nature-based tourism in the era of climate change challenges faced by national parks in arid and semi-arid environments	<i>Kaitano Dube et al.</i>
14.50 – 15.05 Socio-economic benefits and advantages for households living in the “W” Transboundary Biosphere Reserve in Benin (WTBR): Necessity to improve the eco-development contribution of natural resources	<i>Azizou EL-HADJ ISSA et al.</i>
15 05 – 15.20 Women’s enterprise and empowerment helps to foster tolerance for elephants	<i>Esther Serem et al.</i>
15.20 – 15.30 Q&A	

CLOSING CEREMONY

15.30 – 16.30	Recommendations and Way forward	<i>Dr. Patrick Omondi</i>
16.30 – 17.30	Closing Ceremony	<i>MC</i>

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