

**17th INTERNATIONAL ELEPHANT
CONSERVATION & RESEARCH SYMPOSIUM
November 15-19, 2021**



**INTERNATIONAL
ELEPHANT 
FOUNDATION.ORG**

**17th INTERNATIONAL ELEPHANT CONSERVATION AND RESEARCH
SYMPOSIUM
NOVEMBER 15-19, 2021
PROGRAM**

All times are Pacific Standard Time (PST) Los Angeles, California

Convert the time for your time zone by using <https://www.timeanddate.com/worldclock/>

MONDAY November 15, 2021

4:45 am – 5:05 am Entry into Zoom, morning “housekeeping” notes

5:05 am – 6:00 am **Keynote Address - Canopies, Corridors and Community**

Susie Weeks

Mount Kenya Trust

Elephant Behavior

6:00 am – 6:15 am Agonistic interactions among adult male Asian elephants in Nagarahole-Bandipur, southern India

P. Keerthipriya

6:15 am – 6:30 am Social and seasonal factors contribute to shifts in male African elephant (*Loxodonta africana*) foraging and activity patterns in Kruger National Park, South Africa

Kara du Plessis

6:30 am – 6:45 am The role of calves in female Asian elephant social organization

T. Revathe

6:45 am – 7:00 am Ecology of agonistic interactions and dominance relationships in female elephant societies

Hansraj Gautam

7:00 am – 7:15 am The effect of moon phase and time of the day on movement patterns of Asian elephants (*Elephas maximus maximus*) in Wasgamuwa, Sri Lanka

Chandima Fernando

7:15 am – 7:30 am Sleeping pattern and preferences when lying down in a semi-captive population of African elephants

Maud Bonato

7:30 am – 7:45 am Discrimination ability of African elephants when using olfactory cues

Elena Mariotti

Elephant Physiology

7:45 am – 8:00 am Effect of the COVID-19 crisis on tourist camp management and elephant welfare in Chiang Mai, Thailand

Jarawee Suparta

8:00 am – 8:15 am Evaluation of stress on the basis of physio-clinical parameters in captive Asian elephants (*Elephas maximus*)

Madhvee Dhairykar

8:15 am – 8:30 am The effect of COVID-19 lockdown restriction on anxiety related behavior in semi-captive African elephants (*Loxodonta africana*)

Primrose Manning

8:30 am – 8:45 am The force is strong with the tusk

George Dian Balan

8:45 am – 9:00 am Biomechanics of the elephant trunk

Paule Dagenais

TUESDAY November 16, 2021

4:45 am – 5:00 am Entry into Zoom, morning “housekeeping” notes

Elephant Endotheliotropic Herpesvirus and Research

5:00 am – 5:15 am Elephant Endotheliotropic Herpesvirus is omnipresent in elephants in European zoos and an Asian elephant range country

Tabitha Hoornweg

5:15 am – 5:30 am Possibility of perinatal transmission of Elephant Endotheliotropic Herpesvirus

Yaoprapa Yun

5:30 am – 5:45 am Closing the gap on African elephant EEHV: Update from the San Diego Zoo Wildlife Alliance

Lauren Howard

5:45 am – 6:00 am Generating an immunogenic Elephant Endotheliotropic Herpesvirus (EEHV) vaccine

Jennifer Clinton

6:00 am – 6:15 am Evolving EEHV research priorities and the North American EEHV Advisors group

Priya Bapodra

Veterinary Medicine

6:15 am – 6:30 am Improving the detection and diagnosis of tuberculosis in African elephants (*Loxodonta africana*)

Tanya Kerr

6:30 am – 6:45 am Surgical removal of cystic calculi in an Asian elephant: A case report

Supaphen Sripiboon

6:45 am – 7:00 am Diet consumption shapes different profiles of gut microbiota in various age groups of Asian captive elephants

Sarissa Klinhom

Field Conservation

7:00 am – 7:15 am The millennial males: Adaptive social strategy of male Asian elephants in increasingly anthropogenic landscapes of southern India

Nishant Srinivasaiah

7:15 am – 7:30 am Conservation through the lens of elephant orphans

Rachael Murton, Mary Muyoyeta

- 7:30 am – 7:45 am** Resurrecting an elephant migration route in Limpopo, South Africa
Marc Sherratt
- 7:45 am – 8:00 am** Declining numbers of Bornean elephants (*Elephas maximus borneensis*) in Sabah Malaysia Borneo, due to unintentional and intentional poisonings
Kat Pirelli Zucchetta
- 8:00 am – 8:15 am** Low-cost thermal early warning systems for human-elephant conflict mitigation
Alasdair Davies
- 8:15 am – 8:30 am** Eavesdropping on African forest elephants: Passive acoustic monitoring as an effective conservation tool in Central Africa.
Daniela Hedwig
- 8:30 am – 8:45 am** Assessing the trends of human elephant conflict in Keonjhar forest division, India using spatial-temporal analysis
Bismay Ranja Tripathy
- 8:45 am – 9:00 am** Tracking forest loss and fragmentation between 1930 and 2020 in Asian elephant (*Elephas maximus*) range in Nepal
Ashok Ram

WEDNESDAY November 17, 2021

- 4:45 am – 5:00 am** Entry into Zoom, morning “housekeeping” notes

Education/Community Engagement

- 5:00 am – 5:15 am** Human elephant coexistence *HECx*: Advocating through awareness programmes in Tamil Nadu
Rengasamy Marimuthu
- 5:15 am – 5:30 am** Living with elephants, a cultural shift towards coexistence
Walona B. Sehularo
- 5:30 am – 5:45 am** Assessing perception of the local community towards the African savannah elephant and to determine the impact of PEACE Project education courses on participants and human-elephant conflict
Shannon Diener
- 5:45 am – 6:00 am** Role of religious beliefs in elephant damage compensation claims: lessons from indigenous communities
Aritra Kshetry
- 6:00 am – 6:15 am** The devastating impact of agriculture and its contribution to human elephant conflict in Sri Lanka
Ravi Corea
- 6:15 am – 6:30 am** Protecting the elephants of Kibale National Park, Uganda through school-based conservation education programs
Elizabeth Ross & Emily Otali
- 6:30 am – 6:45 am** Using participatory methods to investigate and support human-elephant coexistence in complex socio-ecological systems
Lynn Von Hagen

6:45 am – 7:00 am Elephant conservation in Mali in times of war and peace

Susan Canney

7:00 am – 7:20 am Conservation Lower Zambezi: An overview of programs to support communities while protecting wildlife

Ian Stevenson & Nikita Iyengar

7:20 am – 9:00 am Education/Community Engagement Roundtable

Those who live with elephants receive very few benefits from them yet experience enormous disadvantages in ruined harvests, damage to property and livelihoods, and even injury and death. To help in developing long-term solutions to the problems people face living with elephants, and we invite you to join us to discuss challenges and implementing effective solutions for elephant conservation.

THURSDAY November 18, 2021

4:45 am – 5:00 am Entry into Zoom, morning “housekeeping” notes

Human-elephant conflict

5:00 am – 5:15 am Utilizing drought forecasts to anticipate and mitigate human-elephant conflict

Victoria Boulton

5:15 am – 5:30 am The use of deterrent fences and environmental correlates to alleviate human elephant conflict in southern Kenya

Sophia Corde

5:30 am – 5:45 am Human elephant coexistence challenges and solutions in northwest Namibia

Christin Winter

5:45 am – 6:00 am Human elephant conflict mitigation measures: Lesson from Bardia National Park, Nepal

Rabin Kadariya

6:00 am – 6:15 am Using chili peppers as a mitigation tool for human elephant conflict in Africa

Loki Osborn

6:15 am – 6:30 am Bees on guard: Optimizing the impact of beehive fences around Kibale National Park, Uganda, through citizen science

Marianne Staniunas

6:30 am – 6:45 am Local data leads to local solutions for human-elephant competition for resources bordering a National Park in Botswana

Kate Evans

6:45 am – 7:00 am Efficacy of ex-gratia policy in mitigating human-elephant conflict in Odisha, India

Medha Nayak

7:00 am – 7:15 am Human elephant conflict (HEC) from a research perspective

Bruce Schulte, Chase LaDue

7:15 am – 9:00 am Human-elephant conflict Roundtable

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FRIDAY November 19, 2021

4:45 am – 5:00 am Entry into Zoom, morning “housekeeping” notes

Elephant Habitat

5:00 am – 5:15 am The role of African savanna elephants (*Loxodonta africana*) in seed dispersal and regeneration of woody plant species in Chobe National Park, Botswana
Kaelo Nkile

5:15 am – 5:30 am The potential of photogrammetric point clouds derived from conventional aerial survey for estimating tree heights within savanna ecosystems
Katie Thompson

Africa’s Two Elephant Species

5:30 am – 5:45 am Pan-African population genomic analysis of savannah and forest elephants
Patricia Pečnerová

5:45 am – 6:00 am IUCN Red List assessments of Africa's two elephant species
Kathleen Gobush

Sociopolitical Perspectives

6:00 am – 6:15 am Addressing human and elephant conflict in northwest Uganda
Joanna Hill

6:15 am – 6:30 am Conserving the Asian elephant in range countries
Heidi S. Riddle

6:30 am – 6:45 am Public policy frameworks for elephant conservation
Kelly Dunning

International Captive Elephant Programs

6:45 am – 7:00 am Cheyenne Mountain Zoo's Role in the Palm Oil Crisis
Chelsea Wellmer

7:00 am – 7:15 am An Overview of the Asian Elephant Conservation Programme at African Lion Safari
Taryn Prosser

7:15 am – 7:30 am It takes a Village
Daryl Hoffman, Christine Molter

7:30 am – 7:45 am Welfare standards for elephants in human care: a multi-stakeholder initiative
Jake Rendle-Worthington

Conservation Partners

7:45am – 8:00 am Asian Elephant Support 2020-2021 Progress Report

Liz Beem & Mandy Ussrey

8:00 am – 8:15 am African Forest Elephant Foundation: Boots on the Ground

Christian Triay

8:15 am – 8:30 am International Elephant Foundation

Sarah Conley & Deborah Olson

Open Forum and Networking

8:30 am – 9:00 am



Canopies, Corridors and Community

Keynote Address

Susie Weeks

Executive Director, Mount Kenya Trust

This year's keynote speaker is Susie Weeks, Executive Director of the Mount Kenya Trust. Leading them for the last 20 years, Weeks has spearheaded the Mount Kenya Trust workings with local people, government agencies and development partners for the conservation of the unique natural resources of Africa's second-highest mountain, a UNESCO Heritage Site, established in 1999. Extensive poaching of wildlife, logging of indigenous tree species, overgrazing and large-scale growing of marijuana were destroying the region. The Trust has been working around the mountain on a range of projects including:

- **Forest restoration:** Large-scale reforestation of indigenous trees species at many sites, with over 1.5 million trees planted, as well as woodlots, community tree nurseries and energy saving cook stoves for homes and schools;
- **Wildlife conservation:** Four anti-poaching teams based around the mountain, education projects, human-wildlife conflict mitigation, wildlife research, one-way elephant gates and the Mt Kenya Elephant Corridor that maintains landscape connectivity;
- **Water management:** rainwater capture and storage, and research into over-abstraction of rivers and water sources; and
- **Community development:** Environmental education, community health projects, income generating activities, agroforestry, and sustainable farming methods.