



**INTERNATIONAL
SOCIETY of WILDLIFE
ENDOCRINOLOGY**

5th ISWE CONFERENCE 12-14 October 2015



**Leibniz Institute for Zoo
and Wildlife Research**

IN THE FORSCHUNGSVERBUND BERLIN E.V.

Saturday	October, 10th. Downtown Berlin
14.00 - 17.30	Berlinwalks: Discover Berlin - A perfect introduction to Berlin, covers all the main sights in the city. The participation in this walk is free of charge, but please note that the number of participants is limited to 20 (first come, first serve). If you want to join, please register during online registration for the conference.
Sunday	October, 11th. IZW
10.00 - 16.00	Ultrasound/CT workshop
TBA	ISWE Board meeting and ISWE membership reporting session
Monday	October, 12th. Castle Friedrichsfelde, Tierpark
7.30 - 18.30	REGISTRATION and information desk
9.00 - 9.20	Opening words by Martin Dehnhard (host), Linda Penfold (ISWE Chair), Marina Ponzio (ISWE Conference Chair)
09.20 - 10.20	Plenary Talk: Andre Ganswindt - University of Pretoria, Faculty of Veterinary Science, Dept. of Anatomy & Physiology, South Africa. "A matter of perception: endocrine responses to stressors in African wildlife"
10.20 - 11.20	Session 1 (3 talks) 1. Excretion and measurement of corticosterone and testosterone metabolites in bank voles (<i>Myodes glareolus</i>). Rupert Palme. 2. Using faecal glucocorticoid metabolites from wild animals as biomonitoring tools: Nile crocodile stress and freshwater health. Peter Laver . 3. Physiological evaluation of anthropogenic effects on hoary fox (<i>Lycalopex vetulus</i>) in the Brazilian Cerrado. Stacie Castelda.
11.20 - 11.50	COFFEE BREAK
11.50 - 12.50	Session 2 (3 talks) 1. Influence of external factors on hair cortisol concentrations. Theresa-Anna Salaberger. 2. The impact of social dynamics and seasonality on changes in excreted testosterone and cortisol in an all-male colony of Malayan flying foxes. Catharine Wheaton. 3. Male mountain gorillas' dominance hierarchies are not glucocorticoid or androgen mediated. Stacy Rosenbaum.
13.00 - 14.00	LUNCH
14.00 - 15.20	Session 3 (4 talks) 1. Boar urine pheromone exposure modifies estrous cycle length and regularity in same-sex housed female Red River Hogs (<i>Potamochoerus porcus</i>). Annie Newell-Fugate. 2. Faecal epiandrosterone (epi-A) as an indicator of gonadal activity in spotted hyenas (<i>Crocuta crocuta</i>). Susanne Pribbenow. 3. Techniques for determining hormone concentrations in Southern stingray (<i>Dasyatis americana</i>) plasma using enzyme immunoassay. Cayman Adams. 4. Is the serum androgen level during pregnancy related to sibling aggression in lynxes? Sergey Naidenko.
15.20 - 16.20	COFFEE BREAK & POSTER SESSION





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16.20 - 17.40

Session 4 (4 talks)

1. Reproductive and stress monitoring in captive Asian elephants (*Elephas maximus*). Govindhaswamy Umapathy.
2. A gibbon of a different color: causes and consequences of color change in female white-cheeked gibbons (*Nomascus leucogenys*). Susan Margulis.
3. A global pattern of female biased sea turtle sex ratios: feminization due to climate change? . Camryn Allen.
4. Validation of a novel collection device for non-invasive urine sampling from free-ranging animals. Muhammad Agil.

19.00 - 21.00

WELCOME RECEPTION (buffet, wine, soft drinks)

Tuesday

October, 13th. Castle Friedrichfelde, Tierpark

8.00 - 18.30

REGISTRATION and information desk

09.00 - 10.00

Plenary Talk: Lee Koren - The Mina and Everard Goodman Faculty of Life Sciences, Bar-Ilan University, Ramat Gan, Israel.
"Integrated matrices reveal wild vertebrate life history traits"

10.00 - 11.20

Session 5 (4 talks)

1. Longitudinal progesterone and cortisol profiles recovered from baleen of North Atlantic right whales (*Eubalaena glacialis*). Kathleen Hunt.
2. Validating the use of skin swabs as a non-invasive technique to analyze stress hormones in various amphibian species. Rachel Santymire.
3. Testosterone levels detected in interscapular feathers of Eurasian sparrowhawk and Common kestrel in a non-breeding period. Manel Lopez-Bejar.
4. Developing the technique to measure steroid and thyroid hormones in "blow" (respiratory vapor) of large whales .Elizabeth Burgess.

11.20 - 11.50

COFFEE BREAK

11.50 - 13.10

Session 6 (4 talks)

1. High Non-specific Binding or Matrix Interference in Enzyme Immunoassays Used for the Measurement of Reproductive Hormones in Cetacean Blow. Karen Steinman.
2. Metabolism of PGF α in the Eurasian lynx (*Lynx lynx*) and the leopard cat (*Prionailurus bengalensis euptilura*). Martin Dehnhard.
3. What makes my nest best? The effect of captive environment on stress and reproduction in the captive whooping cranes. Megan Brown.
4. Fecal cortisol metabolites in mandrills (*Mandrillus sphinx*) reintroduced to Conkouati-Douli National Park, Republic of Congo . Shana Lavin.

13.10 - 14.10

LUNCH

14.10 - 15.30

Session 7 (4 talks)

1. Measurement of cortisol concentrations in scales of a wild freshwater fish (*Squalius laietanus*). Anaís Carbajal.
2. The measurement of female reproductive steroid hormones in marsupial urine. Alyce Swinbourne.
3. Understanding the role of neurohormones in hyperprolactinemia of African elephants (*Loxodonta africana*). Natalia Prado-Oviedo.
4. Monitoring long-term stress through hair cortisol analysis in wild chimpanzees (*Pan troglodytes*). Esther Carlitz.





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15.30 - 16.30 COFFEE BREAK & POSTER SESSION

16.30 - 17.50

Session 8 (4 talks)

1. Fecal thyroid hormone measurements as a non-invasive method to monitor energy balance in yellow-breasted capuchins (*Sapajus xanthosternos*). Franka Schaebs.
2. Stability of Asian elephant's fecal glucocorticoid metabolites concentrations (fGCM) in a tropical environment. Ee Phin Wong.
3. Non-invasive monitoring of adrenocortical function as a measure of stress in captive, semi-captive, and free-ranging Golden Langurs (*Trachypithecus geei*). Jatin Sarmah.
4. Ecological variations impact the stress status of free-ranging Asian elephants. Sanjeeta Pokharel.

19.00 - 21.00

MEETING DINNER at Tierpark Friedrichsfelde

Wednesday October, 14th. Castle Friedrichsfelde, Tierpark

8.00 - 13.30

REGISTRATION and information desk

09.00 - 10.00

Plenary Talk: Gabriela F. Mastro Monaco - Toronto Zoo, Toronto, Ontario, Canada
"Reproductive hormone analysis: developing tools to understand population health"

10.00 - 11.20

Session 9 (4 talks)

1. Anti-Müllerian hormone in female cheetahs (*Acinonyx jubatus*): Effects of age and deslorelin. Ned Place.
2. Endocrine monitoring of reproductive function in the African lesser bushbaby, *Galago moholi*. Juan Scheun.
3. Fecal hormone metabolites and ultrasonic examination of gestation in giant anteater (*Myrmecophaga tridactyla*). Franz Schwarzenberger.
4. Reproductive health of female elephants in North American zoos and association of management with pituitary-ovarian problems. Janine Brown.

11.20 - 11.50

COFFEE BREAK

11.50 - 12.50

Session 10 (3 talks)

1. A practical method for timed ovulation in the Persian onager (*Equus hemionus onager*). Mandi Schook.
2. Ultrasound examinations and plasma progesterone concentrations of the alien species *trachemys scripta* during reproductive season in Italy. Gabriella Postiglione.
3. Monitoring of reproductive steroid hormone levels in relation to sexual swelling patterns in wild female bonobos (*Pan paniscus*). Pamela Douglas.

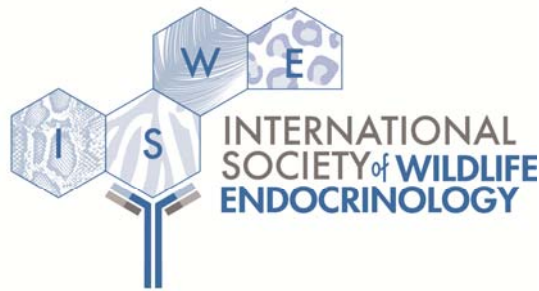
12.50 - 13.00

CLOSING CEREMONY

13.00

Lunch will be provided in form of packed lunch for take away.





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CONFERENCE KEYNOTE SPEAKERS



GABRIELA MASTROMONACO

Gabriela's research focuses on studies in domestic and non-domestic animals for the purpose of increasing the knowledge base of reproductive biology in wildlife species, and use the information to assist with population management by enhancing natural breeding or developing methods for assisted reproduction.



ANDRÉ GANSWINDT

André's research interest are in the area of behavioural endocrinology and reproductive science, addressing proximate and ultimate questions concerning regulative endocrine mechanisms which in combination with other factors, like social or ecological changes, influence and control animal behavior.



LEE KOREN

Lee studies social behaviours in wildlife vertebrates in the context of fitness enhancement, concentrating on steroid hormones in order to evaluate the proximate mechanisms and functions of the behaviours. Her studies take place in the field, under natural conditions. She applies hair analysis that allow to monitor hormonal changes over weeks or months.

