
THURSDAY 17th January

08.15/30 Arrival at Marwell Zoo.

Train departures to collect delegates from the main entrance at 8.15 and 8.30

09.00 EAZA Academy Workshop: *Meat and Fish Quality, nutrition and feed presentation* – Marwell Zoo
[Pre-registration required]

09.00 Fish Quality; factors affecting quality and quality assessment

10.30 Break

11.00 Meat Quality: Factors affecting quality and quality assessment

13.00 Lunch Break

14.00 Meat and fish Nutrition

15.00 Break

15.30 Feed presentation

16.30 Workshop finished

18.00 Registration & Icebreaker – Marwell Hotel (until 20.00)

FRIDAY 18th January

- 08.00 Registration – Marwell Hotel
- 08.50 Welcome & Opening Remarks
- 09.00 **EAZA Update**
David Williams-Mitchell
- 09.30 **Vitamin D for Health in Humans & Animals – the Sunshine Superstar or just Media Hype!**
*Susan Lanham-New**
- 10.15 **UVB and Vitamin D3: If all our animals need full spectrum lighting, how can we provide it?**
*Frances Baines**
- 11.00 Break
- 11.30 **Factors associated with vitamin D status in primates**
Geert Janssens, Romy van Noije, Andrea Brenes Soto, Christine Kaandorp
- 11.45 **Searching for potential nutritional causes of heart disease in apes - Micronutrient analysis in captive chimpanzees (*Pan troglodytes*)**
Matyas Liptovszky, Sophie Moittie, Phillipa Dobbs, Kerstin Baiker, Kate White, Devan Raindi, Wilhelm Stahl, Melissa Grant
- 12.00 **Feeding practices in insectivorous mammal species**
Kerry Hunt
- 12.15 **Nutritional analysis on captive aardvarks and separation solution of Termant using emulsifiers**
Hannah Davies, Jo Bond, Kerry Hunt
- 12.30 Scientific poster pitches I
- 12.45 Lunch break
- 13.45 **Ten years of browse provision at ZSL London Zoo and ZSL Whipsnade Zoo: What have we learned and where are we going**
*Sven Seiffert**
- 14.30 **The effects of frozen storage on the chemical composition, fermentability and palatability of temperate browse in zoos**
Ellen van Herk, Martine Verheij, Anouk Fens, Thomas Bionda, Arun Idoe, Guido Bosch
- 14.45 **Inconsistency with forage vitamin A and vitamin E analytics concerning for diet formulation**
Kimberly Ange-van Heugten, Jordan Wood, Larry Minter, Troy Tollefson
- 15.00 Break (extended) - poster presentations
- 15.45 **Practical Raptor Nutrition - how, why and when it goes wrong and how to avoid the pitfalls**
*Neil Forbes**
- 16.30 **Differences in digestive traits between two Old World vultures**
Anika Daneel, Katherine Whitehouse-Tedd, Gerard Whitehouse-Tedd, Ellen Dierenfeld, Geert Janssens
- 16.45 **Considering the behavioural consequences of feeding regimes: a case study on lesser flamingos (*Phoeniconaias minor*)**
Paul Rose, Laura Soole
- 17.00 Sponsor pitches
- 17.15 Concluding Remarks & Thanks

SATURDAY 19th January

- 08.00 Registration – Marwell Hotel
- 08.20 Zoo entry – Marwell Zoo
- 08.30 Welcome and organisation for zoo visit
- 09.00 Zoo visit - practical workstations
- 11.00 Break
- 11.30 Zoo visit - Zoo Tours
- 12.30 Lunch break
- 13.45 **The past, present and future of animal nutrition at Walt Disney World**
*Shannon Livingston**
- 14.30 **Feeding the roar and ending extinction – how zoo nutrition serves San Diego Zoo Global**
*Andrea Fidgett**
- 15.15 Scientific poster pitches II
- 15.30 Break (extended) - poster presentations
- 16.15 **Body condition scoring of Hermann's tortoises (*Testudo hermanni*) and comparison to known objective body condition measurements**
Angela Gimmel, Sabine Öfner, Annette Liesegang
- 16.30 **Comparison of the nutritional content of the captive and wild diets of the Critically Endangered mountain chicken frog (*Leptodactylus fallax*) to improve its captive husbandry**
Stephanie Jayson, Amanda Ferguson, Matthias Goetz, Andrew Routh, Benjamin Tapley, Luke Harding, Christopher Michaels, Jeff Dawson
- 16.45 **Why should a frog choose a prey that is not that nutritious? Facts and some theories**
Arturo Muñoz, Gabriel Callapa, Geert Janssens
- 17.00 **Survey of feeding practices and nutrition of captive Aldabra giant tortoise (*Geochelone gigantea*) populations in EAZA institutions**
Daniel Harrold, Dr. Amy Plowman & Luke Harding
- 18:00 Conference Dinner – Marwell Hotel

SUNDAY 20th January

- 08.00 Registration – Marwell Hotel
- 08.45 **Fur, feathers and feeding poles' - how cats feed**
*Andrew Kitchener**
- 09.30 **Dual faecal consistency in captive tigers (*Panthera tigris*): more than just water content differences**
Karla Esparza, Jörg Steiner, Linda Penfold, Lara Metrione, Heidi Bissell, Ellen Dierenfeld, Katherine Whitehouse-Tedd, Jonathan Lidbury, Jan Suchodolski, Lisa Yon
- 09.45 **Nutrient composition of diets consumed by wild European brown bears (*Ursus arctos arctos*): Insights for optimising current feeding strategies for captive bears**
Leen Verbist, Guido Bosch, Annelies De Cuyper, Sarah Depauw
- 10.00 **Investigating the feeding hierarchy of long tailed chinchillas and degus within a shared enclosure**
Jordan Stevenson, Lauren Samet
- 10.15 **The importance of nutrition in the preventative medicine of geriatric zoo animals**
Francis Cabana, Guillaume Douay, Abraham Mathew, Shangzhe Xie, Yaoprapa Mathura, Ali A. Ahmad, Yirui Heng, Charlene Yeong, Ellen Rasidi, Sonja Luz
- 10.30 Break
- 11.00 **Food for thought: Keeper opinions on welfare and nutritional perspectives of fruit-free feeding in Primates**
Rebecca Hammerton, Kerry Hunt, Lisa Riley
- 11.15 **Obesity management in equid species at Marwell Wildlife, including a case study on the presentation and treatment of laminitis in Przewalski Horses (*Equus ferus przewalskii*)**
Jackie Squires, Justine Shotton
- 11.30 **Impact of starch and sugar addition into the diet on roughage intake by addax and Reeves's muntjac**
Marcin Przybyło, Sara Dander, Karolina Krawiec, Alina Kloska, Paweł Górka
- 11.45 **An investigation into the effects of dietary alterations on the behaviour and daily food intake of giraffes at Paignton Zoo Environmental Park**
Louise Cox, Siobhan O'Regan, Daniel Harrol¹ & Amy Plowman
- 12.00 **Weigh and see - the relationship of body mass and body condition scores in European zoo elephants**
Christian Schiffmann, Stefan Hoby, Jean-Michel Hatt & Marcus Clauss
- 12.15 Concluding Remarks & Thanks
- 12.30 Lunch

* Key note speaker

POSTER PRESENTATIONS

Pitch I lot

- **Browse preference in bonobos**
Sarah Depauw, Geert Janssens, Jeroen Stevens, Guido Bosch
- **Willow silage: what works and what doesn't?**
Sarah Depauw, Annick Boeykens, Jannes Van Houcke
- **Determining nitrogen (protein) content of varying species of browse and herbage fed to western lowland gorillas (*Gorilla gorilla*) and bornean orangutans (*Pongo pygmaeus*) at Twycross Zoo**
Lydia Warren, Matyas Liptovszky, Clare Ellis, Gavin White
- **The effect of pellet size on the feeding behaviour of ring-tailed lemurs (*Lemur catta*) and red ruffed lemurs (*Varecia rubra*) at Paignton Zoo**
Jisri van Vliet, Amy Plowman
- **Body mass fluctuations in adult zoo elephants - relationship with breeding status and molar progression**
Christian Schiffmann, Stefan Hoby, Jean-Michel Hatt, Daryl Codron & Marcus Clauss
- **Difference in prey preference as cause for difference in husbandry? The wolf versus the jackal, a literature review**
Han Opsomer, Annelies De Cuyper, Marcus Clauss, Geert Janssens
- **Investigating nutritional provision and any influence of dietary composition on behaviour in a commonly-housed parrot- a multi-zoo study on blue-and-gold macaws (*Ara ararauna*)**
Paul Rose, Leah Phillipson, Elaine McIlroy, Kerry Hunt
- **African elephant (*Loxodonta africana*) serum glucose, serum insulin and fecal glucocorticoid concentration fluctuations over a 14-month period with differences between two laboratories for serum glucose**
Kimberly Ange-van Heugten, Jordan Wood, Troy Tollefson, Janine Brown, Larry Minter
- **The effect of pellet size on the feeding behaviour of ring-tailed lemurs (*Lemur catta*) and red ruffed lemurs (*Varecia rubra*) at Paignton Zoo**
Jisri van Vliet, Amy Plowman

Pitch II lot

- **The utility of dried blood spots for the assessment of avian Vitamin D3 status compared with plasma analysis**
Jenny Jaffe, Amanda Ferguson, Christopher Michaels
- **Can herbal nutraceuticals benefit group housed rats used within zoos and exotic collections for school-group education?**
Lauren Samet, Wanda McCormick
- **New developed soft feed pellets with insects for exotic animals**
Marleen Vrij, Joeke Nijboer
- **Devising a hippopotamus (*Hippopotamus amphibious*) handrearing formula**
Barbara Henry, Michael Power, Michael Maslanka, Jenny Nollman

- **Protocol for hand-rearing of flamingo chicks**
Clare Wylie, Cathrine Sauer, Wayne Mcleod, Andrew Owen, Mark Vercoe
- **The challenges, opportunities and status of animal welfare research in zoos and aquaria**
Sally Binding, Holly Farmer, Laura Krusin, Katherine Cronin
- **EAZA Animal Welfare Working Group**
Sally Binding, Graeme Dick, Lisa Holmes, Holly Farmer