

## Programme

**Tuesday 7<sup>th</sup> July**

<b>8.30</b>	<b>Zoo gates open, registration</b>
<b>8.50</b>	<b>Welcome address: Leo Oosterweghel, Director Dublin Zoo</b>
<b>9.00</b>	Giant footsteps: Dublin Zoo's Asian elephant programme <i>Gerry Creighton</i>
<b>9.15</b>	Asian elephant sleep study <i>Brendan Walsh</i>
<b>9.30</b>	Effects of construction and operation of a novel visitor attraction on the behaviour of two captive Amur tigers ( <i>Panthera tigris altaica</i> ) <b>Jessica Harley, Jessica Chaisson and Ian Handle</b>
<b>9.45</b>	Welfare of captive chimpanzees with special attention to regurgitation and reingestion <b>Emma K Wallace, Bridget Waller and Katie Slocombe</b>
<b>10.00</b>	Improving the lives of captive thornback rays ( <i>Raja clavata</i> ) <b>Gavan M Cooke, Eleanor Greenway and Katherine Jones</b>
<b>10.15</b>	The effect of lighting and shading on the pulsation rate of the soft coral <i>Xenia elongata</i> <i>Ryan Hills, Tom Bennett and Sue Dow</i>
<b>10.25</b>	The effects of a simulated lunar cycle on amphibian behaviour <b>Lucy Ward, Holly Farmer, Mike Bungard, Sam Lomax, Wayne Edwards and Andrew E. Bowkett</b>
<b>10.35</b>	Evaluating long-term activity patterns and enclosure usage in captive flamingos; management and welfare implications <b>James Brereton, Darren Croft, Mark Roberts, Rebecca Lee, Fionnuala McCully and Paul Rose</b>
<b>10.45</b>	<b>Tea/Coffee</b>
<b>11.10</b>	Comparison of cardiac structure and function between captive zoo and sanctuary chimpanzees ( <i>Pan troglodytes</i> ) <i>Aimee Drane, Yedra Feltrer, Tai Strike, Steve Unwin and Rob Shave</i>
<b>11.25</b>	What can we learn from agricultural research? And what can they learn from us? <i>Samantha Ward</i>
<b>11.40</b>	Happiness means welfare: ratings of welfare and subjective well-being correlate highly in brown capuchins ( <i>Sapajus apella</i> ) <b>Lauren M Robinson, E Londsorf, A Paukner, S Brosnan, I Handel, VAD Wilson, FB Morton, MC Leach, NK Waran and A Weiss</b>
<b>11.55</b>	Using positive reinforcement training to reduce stress associated with veterinary care <b>Elizabeth Durkin and Anne Pullen</b>
<b>12.10</b>	Changes in behaviour before and during treatment for degenerative joint disease in a captive, geriatric European brown bear ( <i>Ursus arctos</i> ) <b>Clare Ellis, Nick Jackson and Jan Chapman</b>
<b>12.20</b>	A comparative study of digestibility and diets for red titi monkeys ( <i>Callicebus cupreus cupreus</i> ) at three UK zoos <i>Freisha Patel</i>
<b>12.30</b>	Digesting the indigestible: how do insect-eating mammals cope with consuming chitin? <b>Lizzie Randall and Amy Plowman</b>
<b>12.40</b>	An investigation into the diet variation and suitability of captive green sea turtles ( <i>Chelonia mydas</i> ) worldwide <b>Alexandra Pulfer, Emma Skirrow, Paul Rose and Kerry Hunt</b>
<b>12.50</b>	<b>Lunch</b>
	<b>Special session: It's all in the poo, and urine too</b>
<b>1.50</b>	Non-invasive adrenal analysis. How many samples should I collect and what will it tell me? <i>Sue Walker</i>
<b>2.20</b>	Putting sparkle into your freezer! The trials and tribulations of faecal sampling <i>Louise Bell</i>

2.35	The whole animal approach: why careful application of endocrinology can be instrumental in animal behaviour studies <i>Lisa Holmes</i>
2.50	Welfare monitoring of an African elephant <i>Paul Perrins, Kirsten Pullen and Holly Farmer</i>
3.00	General discussion on the challenges and benefits of adrenal monitoring
3.15	<b>Tea/Coffee</b>
3.40	Aquariums as restorative environments and the influence of exhibit content <i>Deborah Cracknell, Mathew White, Sabine Pahl and Michael Depledge</i>
3.55	Evaluation of the effectiveness of zoo information signs for education <i>Sarah Spooner</i>
4.10	Can the presentation of captive amphibians in zoological collections be modified to maximise feelings of empathy, engagement and interest from teenage visitors? <i>Steve Nash</i>
4.25	Managing the genetics of a captive species <i>Raja undulata</i> <i>Jean-Denis Hibbitt</i>
4.40	Reintroduction projects involving captive-bred animals: zoo and aquaria involvement and project management factors contributing to success <i>Rachel Gardner</i>
4.55	A global geographic analysis of WAZA member in situ research project site locations <i>Thomas Underdown and Andrew R. Marshall</i>
5.05	Developing a Baseline for the Holistic Measurement of Conservation Success <i>Matthew Durrant, Hayley Blackwell, Freddie Sutton, and Andrew R Marshall</i>
5.15	Evaluating energy consumption and the use of heat sources in animal exhibits to help inform collection planning in a more sustainable way: a case study at Newquay zoo <i>Nicole Fenton Howarth</i>
5.25	The visitor experience at Newquay Zoo: utilising GPS technology and observation to inform collection planning and site management <i>Michelle Gurney</i>
5.35	<b>Poster Session</b>
6.35	<b>Tour of Dublin Zoo, followed by food platters at the Nancy Hands (10 mins walk from zoo)</b>

### Wednesday 8<sup>th</sup> July

8.45	<b>Zoo gates open</b>
9.00	Effect of three forms of intrinsic enrichment on the behaviour of Sumatran tigers ( <i>Panthera tigris sumatrae</i> ) and cheetahs ( <i>Acinonyx jubatus</i> ) in captivity. <i>Juliana Damasceno, Gelson Genaro, Shannen McCarthy, Ruth O’Riordan, Thomas Quirke and Sean McKeown</i>
9.15	The long weekend: do zoo-housed mammals avoid giving birth when the zoo is crowded? <i>Geoff Hosey, Sonya Hill and Samantha Ward</i>
9.30	Factors influencing interactions in zoos: animal-keeper relationship, animal-public interactions and solitary animals groups <i>Giovanni Quintavalle Pastorino, M. Albertini and R. Preziosi</i>
9.45	Nectar pot provision for rainbow lorikeets ( <i>Trichoglossus moluccanus</i> ) in a walk-through aviary <i>Christopher Dunster, Wanda McCormick and Helen Tedds</i>
9.55	Monitoring behavioural changes during visitor feeds on a group of giraffes at Blackpool zoo <i>Vicky Hoyle</i>
10.05	The effects of environmental enrichment and weather on enclosure use and within-pride conflict in African lions ( <i>Panthera leo</i> ): study using keeper and researcher data

	<i>Charlotte Sire, Katie McDonald and Lucy Clark</i>
<b>10.15</b>	A preference test for the common clownfish ( <i>Amphiprion percula</i> ) for real and artificial anemones Laura Thompson
<b>10.25</b>	<b>Tea/Coffee</b>
<b>10.50</b>	Workshop – ZIMS as a Research Resource
<b>12.30</b>	<b>Lunch</b>
<b>1.15</b>	Long-term research into the breeding ecology of Chilean flamingos in Dublin Zoo <i>Louise McDermott</i>
<b>1.30</b>	Effects of enclosure design on breeding success in flamingos <i>Emily V. Barrington and Andrew R. Marshall</i>
<b>1.40</b>	Breeding behaviour and success of tufted puffins ( <i>Fratercula cirrhata</i> ): an investigation into the effects of husbandry and social environment <i>Joanna Waterman, Jody Griffin, Lisette Keetman and Holly Farmer</i>
<b>1.50</b>	Reproductive success in hand-reared Java sparrows and early behaviour of their offspring compared to parent-reared conspecifics. <i>Charlotte Leaman, Tom Tooley, Leslie Connor, Holly Farmer, Jo Gregson and Andrew E. Bowkett</i>
<b>2.00</b>	Captive population management: investigating reproductive parameters and the long-term effect of contraception in white-faced saki monkeys ( <i>Pithecia pithecia</i> ) <i>Emily Thornton, Holly Farmer and Matthew Webb</i>
<b>2.10</b>	A first report on the behaviour and captive breeding of a pair of narrow-striped mongoose, <i>Mungotictis decemlineata</i> <i>Evie Morris and Kathy Baker</i>
<b>2.20</b>	<b>Tea/Coffee</b>
<b>2.45</b>	Assessing Emotional Perception in Chimpanzees <i>Vanessa Wilson and A. Weiss</i>
<b>3.00</b>	Understanding social dynamics and their relevance for breeding success in captive populations <i>Danielle Free</i>
<b>3.15</b>	The behavioural response of a captive population of lion-tailed macaques ( <i>Macaca silenus</i> ) to changes in social structure over time <i>Rebecca Newman, Leanne Casey, Amy Quinn, Risteard Tobin, Sean McKeown, Thomas Quirke, and Ruth M. O' Riordan</i>
<b>3.30</b>	Behavioural and physiological changes to a captive herd of African elephants <i>Loxodonta africana</i> following the death of an individual. <i>Sarah Armstrong and Heather Young</i>
<b>3.40</b>	The application of Social Network Analysis in guiding management of African lions <i>Panthera leo</i> in captivity <i>Stephanie Willimott and Heather Young</i>
<b>3.50</b>	An evaluation of association patterns, sociality and behavioural characteristics within three captive flamingo flocks <i>Rhianna Worsell, Darren Croft, Heidi Mitchell and Paul Rose</i>
<b>4.00</b>	Do personality differences influence friendships in zoo-housed bonobos? <i>Jonas Verspeek, Nicky Staes and Jeroen MG Stevens</i>
<b>4.10</b>	<b>Summing up and prizes</b>
<b>4.30</b>	<b>Finish</b>