UFAW International Symposium 27th-29th June 2017 Royal Holloway, University of London, Surrey, UK



List of posters

Poster session 1 on 27th June. Begins 13.20. Poster session 2 on 28th June. Begins at 13.20. Poster session 3 on 29th June. Begins at 13.00.

Poster session

- 27th **Addison IE and LH Thomas** (Veterinary Association for Wildlife Management, UK) Is there wild animal welfare? If so, when and what to worry about?
- Anderson K, D O'Neill, H Zulch, R Meeson, D Sargan, D Brodbelt, J Summers and LM Collins (Universities of Lincoln, Cambridge and Leeds, Royal Veterinary College, UK.)

 Epidemiology of canine osteoarthritis (OA) in the UK dog population as assessed at primary veterinary consultations
- 28th **Arena L, GV Berteselli, S Messori and N Ferri** (Istituto Zooprofilattico Sperimentale di Abruzzo e Molise and University of Teramo, Italy)

 Development of a welfare assessment protocol for cats housed in rescue shelters. A preliminary study
- 27th **Arndt SS and VC Goerlich-Jansson** (Utrecht University, The Netherlands) Assessing risks—which factors may affect animal welfare?
- 28th **Autier-Dérian D** (Animal Welfare Consulting Lyon, France)
 Quantitative and qualitative data go hand-in-hand
- 28th Autier-Dérian D, A Levieuge, E Fontaine, M Freulon, S Boue, C Quain, G Trombini and G Florence (France Animal Welfare Consulting Lyon and Service de Santé des Armées, France)
 Welfare assessment for military dogs
- 29th **Bacon HJ, H Walters, V Vancia and N Waran** (University of Edinburgh, UK) Development of a robust canine welfare assessment for dogs in trap-neuter-return programmes
- 29th Baciadonna L and AG McElligott (Queen Mary University of London, UK)
 Goats discriminate emotion-linked calls based on valence
- 27th Barnard S, DL Wells, PG Hepper and C Burani (Queen's University Belfast, UK; Università degli Studi di Parma, Italy)

 Motor and structural lateralisation as measures of stress in dogs entering a kennel environment
- 27th Battini M, E Canali, F Dai, M Dalla Costa, C Dwyer, S Mattiello, M Minero and F Wemelsfelder (Università degli Studi di Milano, Italy; SRUC, UK)

 The on-farm application of qualitative behaviour assessment to goats, sheep, donkeys and horses in the AWIN project
- 28th **Baur Y, SJ Vick, A Weiss and HM Buchanan-Smith** (Universities of Stirling and Edinburgh, UK) An inter-disciplinary approach to measure positive welfare in captive gorillas
- 29th **Bell LJ** (Myerscough College and Blackpool Zoo, UK)

 Can we use faecal corticosterone to measure the physiological stress response of transferred *panthera* in zoological collections? How stressful is transfer?



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Poster session	
28th	Berteselli GV, L Arena, F De Massis and P Dalla Villa (Istituto Zooprofilattico Sperimentale di Abruzzo e Molise and Università di Teramo, Italy) Inter-observer agreement in dogs' welfare assessment in ten Italian long-term shelters
29th	Bethell EJ (Liverpool John Moores University, UK) Attention bias: A practical method for assessing 'psychological wellbeing' in non-human animals?
27th	Blakeway SJ (Sidmouth, UK) Keeping the discipline open: Inclusivity in animal welfare science
28th	Brando S, L Tasker and HM Buchanan-Smith (AnimalConcepts, The Netherlands; University of Stirling, UK) Using the 24/7 animal welfare approach to promote the welfare of cynomolgus macaques (<i>Macaca fascicularis</i>) housed in research and breeding establishments
29th	Burani C, P Valsecchi, DL Wells and S Barnard (Università degli Studi di Parma, Italy; Queen's University Belfast, UK) Bowl half full or half empty? Assessing affective state in shelter dogs
27th	Busby D, SJ Rogers, C Bell and J Taylor (Equine Behaviour and Training Association, UK; Epona TV, Denmark) Improving recognition of equine fear and stress (A barrier to welfare improvement)
27th	Busby D, SJ Rogers SJ, B Hart and J White (Human Behaviour Change for Animals, UK) The need to apply the science of human behaviour change to improve animal welfare
28th	Bushby E, M Friel, A Wilkinson, S Cotter and LM Collins (Universities of Lincoln and Leeds, Queen's University Belfast, UK) Investigating the impact of pregnancy on cognitive bias in pigs
29th	Campos Luna IM, MC Leach, F Wemelsfelder, AL Miller and AR Beard (Newcastle University and SRUC, UK) Qualitative behavioural assessment: Preliminary results of its application for assessing laboratory mouse welfare
29th	Charlton GL, E Bleach, C Gauld, V Thorup and SM Rutter (Harper Adams University and IceRobotics, UK) Using accelerometers for early detection of dairy cow lameness
28th	Chincarini M, E Canali, N Ferri, M Mariscoli, M Minero, C Palestrini, L Qiu, A Torricelli and G Vignola (Università degli Studi di Teramo and Milano, Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise 'G. Caporale', Politecnico di Milano and Consiglio Nazionale delle Ricerche, Italy) Functional near infrared spectroscopy in animal cognition: Potentials and limits
27th	Chou J-Y, A Haigh, R D'Eath, D Sandercock, N Waran and K O'Driscoll (Teagasc, Ireland; SRUC and University of Edinburgh, UK) Use of different wood types as enrichment to reduce tail biting in pigs managed on fully-slatted floors



27th

Animal-based welfare measures in zoos: The case of captive dolphins

France; Dolfinarium Harderwijk, The Netherlands)

Clegg ILK, HG Rödel, B Mercera, CE van Elk and F Delfour (Université Paris 13 and Parc Astérix,

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27th	Clegg ILK, HG Rödel, B Mercera, CE van Elk and F Delfour (Université Paris 13 and Parc Astérix, France; Dolfinarium Harderwijk, The Netherlands) Difficulties in interpreting the first indicators of positive welfare in dolphins
29th	Cooper J, A Vaughn, M Albentosa, H Hodges and L Chielo (University of Lincoln, UK) Using spatial dispersal patterns to assess value of space and quality of life in captive animals. Simple, robust tools for application in confined and unrestricted environments
29th	Cronin KA, EJ Bethell, SL Jacobson and SR Ross (Lincoln Park Zoo, USA; Liverpool John Moores University, UK) Measuring mood with minimal training: Latencies on a simple touchscreen task indicate mood in zoo-housed Japanese macaques (<i>Macaca fuscata</i>)
28th	Cruden J, O Burman and J Cooper (GSK and University of Lincoln, UK) A cage-base and environmental preference test for laboratory rabbits
28th	Czycholl I and J Krieter (Christian-Albrechts-University, Germany) Consistency of the Welfare Quality® assessment protocol for pigs during the fattening period
27th	Dale R, N Gillies, VV Vyazovskiy, M de Vos, P Flecknell and CE Bergmann (University of Oxford and Newcastle University, UK) Welfare assessments for non-human primates used in neuroscience research
28th	Davidson NB and JL Hurst (University of Liverpool, UK) Laughing rats: A novel pest control solution?
27th	Davis N and L Holmes (Chester Zoo, UK) Animal welfare assessment processes in zoological collections
29th	Doyle RE, S Hazel, JE Zemitis, CA Ralph, K Plush, RS Morrison, GM Cronin and C Lee (Universities of Melbourne, Adelaide and Sydney, South Australian Research and Development Institute, Rivalea Australia and CSIRO, Australia) Developing a rapidly learnt judgement bias test in a confined environment
28th	DuBois C, K Merkies, DB Haley, TJ DeVries and P Lawlis (University of Guelph, Guelph, Canada) Examining the usefulness of qualitative data to supplement an on-farm equine welfare assessment tool
28th	du Plessis EW, NJ Beausoleil, CF Bolwell and KJ Stafford (Massey University, New Zealand) Validation of a combined conditioned-place aversion and approach-avoidance paradigm for evaluating aversion in chickens
27th	Fernández-Lázaro G, E Alonso-García and X Manteca-Vilanova (University of Alcalá and Universitat Autònoma de Barcelona, Spain) Personality studies and training: Useful tools to asses emotions and promote positive welfare in primates?



A review

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session	
28th	Ferreira JM, IAS Olsson and AM Valentim (Universidades do Porto and de Trás-os-Montes e Alto Douro, Portugal) A less aversive anaesthetic to adult zebrafish
27th	Franco NH and IAS Olsson (Universidade do Porto, Portugal) Non-invasive infrared thermography for welfare assessment of laboratory rodents
28th	Green J and C Witham (Newcastle University and Medical Research Council Center for Macaques, UK) Filling in the gaps: considering nocturnal behaviour patterns in assessments of captive primate welfare
29th	L Greening, E Habershon, S Collop-Smith and T Ghaye (Hartpury University Centre, UK) Perceptions of positive equine welfare
29th	Hammerschmidt J and CFM Molento (Federal University of Paraná, Brazil) Protocol for expert report on animal welfare as support for court decisions in case of animal cruelty suspicion
27th	Harrison J, MLD Fallon and A Riach (Askham Bryan College, UK) The importance of access to outdoor space for domestic cats (<i>Felis catus</i>) in a rescue centre
28th	Hitchens PL, J Hultgren, J Frössling, U Emanuelson and LJ Keeling (Swedish University of Agricultural Sciences and National Veterinary Institute, Sweden; University of Melbourne, Australia) Improving animal welfare inspections by using epidemiological methods
29th	James C, LG Asher and J Wiseman (University of Nottingham and Newcastle University, UK) The impact of ultraviolet wavelengths on broiler chicken welfare indicators
28th	Kophamel S, M Martínez-Novoa and GA María (University of Zaragoza, Spain) The human-pet bond. From beginning to end. A Spanish survey
28th	Leung V, E Zhang and DSJ Pang (Universities of Montréal and Saskatchewan, Canada) Real-time application of the Rat Grimace Scale as a welfare refinement in laboratory rats
27th	Lima MLP, JA Negrao, T Grandin, AP Freitas and CCP Paz (Instituto de Zootecnia and Universidade de São Paulo, Brazil; Colorado State University, USA) Easy assessments to measure the welfare improvement in handling facilities of livestock farm
27th	Lima MLP, JA Negrao, T Grandin, AP Freitas and CCP Paz (Instituto de Zootecnia and Universidade de São Paulo, Brazil; Colorado State University, USA) What behaviour trait could be introduced to be used in a beef cattle experimental farm routine?
28th	Mackay AH, GM Cronin, M Singh, PJ Groves and D Phalen (The University of Sydney, Australia) A pilot study: A microbiological approach to understanding feather pecking in laying hens
28th	Martin JE and DEF McKeegan (Universities of Edinburgh and Glasgow, UK) The elusive boundary between consciousness and unconsciousness: Spectral analysis of EEG may hold the key



Poster

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Poster session	
29th	Martinez CA, P Szenczi, L Pérez, R Hudson, ME Morones and M de L Alonso (Universidad Autónoma Metropolitana-Xochimilco, UATx, Universidad Nacional Autónoma de México and Unidad Médica Veterinaria de la Policía Montada de la CDMX, Mexico) Evaluation of individual differences in the stress response to mother-young separation in the domestic horse
28th	McLennan KM, MJ Corke and F Constantino-Casas (Universities of Chester and Cambridge, UK) Biomarkers of pain - separating pain from inflammation
29th	Mondon M, R Merle and C Thöne-Reineke (Freie Universität Berlin, Germany) Systematic review on animal welfare indicators in dairy cattle to identify those of highest validity
27th	Morgan K, A Wilkinson and J Cooper (University of Lincoln, UK) Public perceptions of feline characteristics in re-homing shelters and the impact these have on adoption success
29th	Newell KJ, J Chitty and FM D Henson (University of Cambridge and 'Smartbell', UK) Use of real-time geo-location to remotely monitor locomotory behaviour as a potential proxy for well being in experimental sheep
28th	Noble CE, LM Wiseman-Orr, AM Nolan, EM Scott and J Reid (NewMetrica Ltd, University of Glasgow and Edinburgh Napier University, UK) Validation of a feline generic health-related quality of life instrument with an add on module for osteoarthritis
29th	O'Neill DG, JF Summers, DB Church and DC Brodbelt (The Royal Veterinary College, UK) Vetcompass: A new face for robust animal welfare research data
27th	Oxley JA, CF Ellis, W McCormick and A McBride (Romford, Moulton College and Universities of Northampton and Southampton, UK) A survey of common rabbit handling methods and reasons for their use
27th	Oxley JA and SA Gaines (Romford and RSPCA, UK) The welfare implications as a result of breed specific legislation in the UK
29th	Perera BVP, JL Brown, C Thitaram, RPVJ Rajapakse and A Silva-Fletcher (The Elephant Transit Home and University of Peradeniya, Sri Lanka; Smithsonian Conservation Biology Institute, USA; Chiang Mai University, Thailand; The Royal Veterinary College, UK) Calves using faecal corticosteroid metabolites as indicator at the Elephant Transit Home, Sri Lanka
28th	Reaney SJ, H Zulch and LM Collins (University of Lincoln, UK) Using pet owners in assessments about their pets personality and health status: Which human characteristics may influence responding
28th	Reijgwart ML, NJ Schoemaker, MC Leach, CFM Hendriksen, M van der Meer, CM Vinke and YRA van Zeeland (Institute for Translational Vaccinology, Utrecht University, The Netherlands; Newcostle University, UK)



Newcastle University, UK)

Development and validation of a Ferret Grimace Scale (FGS)

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29th	Riemer S, L Assis, T Pike and DS Mills (University of Bern, Switzerland; University of Lincoln, UK) Are your ears burning when I'm not there? Distance monitoring of positive and negative affective states in dogs with infrared thermography
29th	Robbins JA, B Franks and MAG von Keyserlingk (University of British Columbia, Canada) More than a feeling: an empirical challenge for descriptive, mental-state accounts of animal happiness
27th	Rose PE, J Linscott, S Banks and R Cromie (University of Exeter, Wildfowl and Wetland Trust, Sparsholt College Hampshire, UK) Benchmarking positive welfare in commonly-housed zoo birds
28th	Sandri C, A Martini, S Normando, W Magnone, B Regaiolli and C Spiezio (Parco Natura Viva – Garda Zoological Park and University of Padua, Italy) Could animal behaviour and behavioural flexibility be measures of welfare of zoo animals: The case of a mixed-species exhibit of Watusi cattle in a safari park
27th	Schmitt O, LA Boyle, K O'Driscoll and EM Baxter (Teagasc, Ireland; University of Edinburgh and SRUC, UK) Assessment of the emotional state of pigs reared artificially or by a sow
27th	Scullion Hall LEM, S Robinson and HM Buchanan-Smith (University of Stirling and AstraZeneca, UK) Integrating measures of welfare in the laboratory-housed dog
27th	Sommerville R, M Upjohn, K Wells and A Thomas (Brooke Action for Working Horses and Donkeys, UK) From paper to practice: Collaboration as impetus for implementation of the latest animal welfare concepts
29th	Spence CE, M Osman and AG McElligott (Queen Mary University of London, UK) Public attitudes to animal sentience and welfare
28th	Spiezio C, C Vandelle, B Regaiolli and C Sandri (Parco Natura Viva, Garda Zoological Park, Italy; University of Liège, Belgium) How do we measure the effectiveness of environmental enrichment for zoo chimpanzees' welfare?
29th	Stirling J (Edinburgh Napier University, UK) Does the cage-trapping of corvids cause unnecessary suffering? A behavioural study of trapped magpies
28th	Stokes JE, DCJ Main, S Mullan, MJ Haskell, F Wemelsfelder and CM Dwyer (University of Bristol, SRUC, UK) Collaborative development of positive welfare indicators with dairy cattle and sheep farmers
27th	Stomp M, S Henry and M Hausberger (Université de Rennes 1, France) Are positive emotions reliable indicators of welfare in horses?
27th	Studer BHP, J Volstorf, MF Castanheira, JL Saraiva and P Arechavala-López (fair-fish international association, Switzerland; Mediterranean Institute for Advanced Studies, Spain) FishEthoScore - Assessment of fish species' potential for welfare in farming



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28th	Sutherland MA, GM Worth, M Stewart and KE Schütz (AgResearch Ltd., LIC and InterAg, New Zealand)
	Leaving no stone unturned: Assessing the welfare of calves reared on stones
29th	Tamioso PR, A Boissy, X Boivin, H Chandèze, S Andanson, E Delval, CA Taconeli, GP Silva and CFM Molento (Federal University of Paraná - UFPR, Brazil; Institut National de la Recherche Agronomique – INRA, France) Behavioral responses of sheep submitted to human presence and brushing
	Definition responses of sheep submitted to name presence and brasining
29th	Tanner N and A Marshall (University of York and Flamingo Land Ltd., UK) Influence of husbandry and enclosure design on the welfare of captive giraffes
28th	Telkänranta H, A Koskela, S Somppi, MV Kujala, H Törnqvist, O Vainio and M Vainionpää (University of Helsinki, Aalto University and Veterinary Clinic Askel, Finland; University of Bristol, UK) Thermography reveals emotional arousal in rats encountering highly preferred food
27th	Thorpe SKS, N Hanson, E Saunders, R Pietragello-Brown, C MacDonald, K Pullen and J Chappell (University of Birmingham, Twycross Zoo and BIAZA, UK) An enclosure design tool to enable zoos to create integrated, wild-type enclosures for Great apes
27th	Ursinus WW, B Rietveld-Piepers, JH Bongers and THM Sijm (Netherlands Food and Consumer Product Safety Authority, The Netherlands) Animal welfare risk assessment of the food supply chain
28th	Vandenabeele SP, RP Wilson and A Grogan (Swansea University and Royal Society for the Prevention of Cruelty to Animals, UK) New technology can help assess stress levels of animals
28th	van der Laan JE, AS van der Wal, LM Bril, JAM van der Borg and CM Vinke (Utrecht and Wageningen University and Research, The Netherlands) Canine welfare monitoring: evaluating nocturnal activity as an indicator of adaptability of dogs to a shelter environment
29th	van Rooijen J (Wageningen, The Netherlands) Answers to questions concerning the scientific study of animal welfare and suffering
27th	Varner GE (Texas A&M University, USA) A utilitarian framework for categorizing and assessing welfare improvement strategies
28th	Vogel CJ (The Chamber of Experts, UK) Examining the animal – the starting point of welfare assessment
28th	Webber CE and PC Lee (University of Stirling, UK) Behavioural development and play in elephant calves
29th	Wells DL, PG Hepper, ADS Milligan and S Barnard (Queen's University Belfast, UK) The value of paw preference as a measure of canine welfare
27th	Westen HR (World Horse Welfare, UK) The ongoing horsemeat scandal



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29th	Williams CJA, LE James, W Joyce, C Taulbjerg, CAC Leite, MF Bertelsen and T Wang (Aarhus and Copenhagen Universities and Copenhagen Zoo, Denmark; Federal University of São Carlos, Brazil) Assessing acute and post-operative welfare in reptiles: Case studies in snakes and terrapins
27th	Witham CL (Newcastle University and MRC Centre for Macaques, UK). Using automated video analysis to monitor social relationships in group-housed macaques
28th	Zhang E, V Leung and DSJ Pang (Universities of Saskatchewan and Montréal, Canada) The influence of rater training on reliability when using the Rat Grimace Scale
28th	Zhang Y and CJC Phillips (University of Queensland, Australia) Climatic influences on the mortality of sheep exported from Australia to the Middle East
28th	Zobel G and J Webster (AgResearch Ltd. and Massey University, New Zealand) "Farming by phone" - Is there a risk that increasing use of technology will erode our obligations to care for animals?

