

# ISAE 2021

'Developing animal behaviour and welfare: Real solutions for real problems'

## Program

Monday, August 2, 2021

Times in Irish Summer Time (UTC +1)

14:00-14:30	<b>Opening ceremony - Stage 1</b>	
14:30-14:55	<b>Plenary: One Welfare - Stage 1</b> <i>Don Broom</i> : One biology, one welfare, one health, one stress and some consequences of this view.	
15:00-16:00	<b>Wood-Gush Memorial Lecture - Stage 1</b> <i>Ullas Karanth</i> : Applying macro-ecology to assist tiger recovery in India	
16:00-17:30	<b>Parallel workshops - Zoom</b> <b>Workshop 1</b> - Freeing the hens: applying ethology to the development of cage-free housing systems in the commercial egg industry <b>Workshop 2</b> - Getting your manuscript published: real solutions for real problems	
17:30-18:00	<b>Break: Posters on demand or networking in the virtual coffee-room</b>	
18:00-19:30	<b>Parallel workshops - Zoom</b> <b>Workshop 3</b> - Danger of global climate change on animal welfare <b>Workshop 4</b> - Ethics for applied ethology and animal welfare research	
19:30-20:00	<b>Break: Posters on demand or networking in the virtual coffee-room</b>	
20:00-21:30	<b>Parallel workshops - Zoom</b> <b>Workshop 5</b> - Open science in applied ethology <b>Workshop 6</b> - The economic and welfare impact of sub-optimal mobility and hoof health in dairy cows	

Tuesday, August 3, 2021

Times in Irish Summer Time (UTC +1)

8:00-9:30	<b>Parallel workshops - Zoom</b>	
	<b>Workshop 1</b> - Freeing the hens: applying ethology to the development of cage-free housing systems in the commercial egg industry	<b>Workshop 2</b> - Getting your manuscript published: real solutions for real problems
9:30-11:00	<b>Break: Posters on demand or networking in the virtual coffee-room</b>	
11:00-12:30	<b>Parallel workshops - Zoom</b>	
	<b>Workshop 3</b> - Danger of global climate change on animal welfare	<b>Workshop 4</b> - Ethics for applied ethology and animal welfare research
13:00-14:00	<b>Eating with Ethologists: Zoom</b>	
14:00-14:45	<b>Plenary: Welfare of Bovids Stage 1</b>	
	<i>Maria Vilain Rørvang</i> ,: Assessing cognition in cattle - Challenge and possibility?	
14:45-15:15	<b>Parallel sessions Stage 1 Welfare of bovids (1)</b>	<b>Stage 2 Application of Technology to Applied Animal Behaviour and Welfare (1)</b>
14:45	<i>Rodrigo Held</i> : Lying and rumination behavior of seasonally calving grazing dairy cows	<i>Amelia Redfearn</i> : Fewer steps to a better ewe: behavioural transitions (BT) and activity monitors to measure lambing activity in Merino ewes
15:00	<i>Debora Racciatti</i> : Cattle welfare: a protocol for its assessment in Argentinian feedlots	<i>Laura Hunter</i> : Using machine learning to predict sleep stage from muscle activity and heart rate in dairy cows
15:15-15:45	<b>Break: Posters on demand or networking in the virtual coffee-room</b>	
15:45-17:00	<b>Parallel sessions continued</b>	
15:45	<i>Megan Woodrum-Setser</i> : Isolation Box Test: Development and investigation of its potential to measure personality traits of dairy calves	<i>Richard Mott</i> : Use of the Polar V800 and Actiheart 5 heart rate monitors for the assessment of heart rate variability (HRV) in horses
16:00	<i>Emily Lindner</i> : Effects of early social contact on dairy calf response to initial social grouping and regrouping	<i>Laura Candelotto</i> : Validation of a sensor-based behavioral observation method in poultry
16:15	<i>Anna Schwanke</i> : Impact of dairy cow personality and concentrate allocation on the adaptation, behaviour, and production of dairy cows introduced to a free-traffic automated milking system	<i>Julie Johnsen</i> : Can technology inform decisions about optimized separation strategies of the dairy cow and calf in cow-calf contact systems?
16:30	<i>Kathryn McLellan</i> : Free-choice pasture access helps lame dairy cows recover	<i>Oleksiy Guzhyva</i> : Utilising the power of computer vision for pre-and post-calving monitoring in dairy cattle: simplicity in motion
16:45	<i>Laura Whalin</i> : Use of outdoor access by dairy calves	

17:00-18:00	<b>Posters &amp; coffee - Virtual coffee room Wonder</b>  Poster sessions 1 & 2 Application of Technology to Applied Animal Behaviour and Welfare Welfare of Animals used in Research and Teaching	
18:00 - 18:45	<b>Plenary: UFAW/ISAE Welfare of Animals used in Research and Teaching</b>  <i>Stage 1</i>	
	<i>Georgia Mason:</i> The impact of conventional housing on stress-sensitive health conditions in laboratory rodents: a systematic review and meta-analysis	
18:45-19:15	<b>Parallel sessions</b> <i>Stage 1</i> <span style="float: right;"><i>Stage 2</i></span> <b>UFAW/ISAE Welfare of Animals used in Research and Teaching</b> <span style="float: right;"><b>Companion and Wildlife Management</b></span>	
18:45	<i>Aileen MacLellan:</i> Characterizing inactivity in laboratory mice: What does it reveal about welfare and how can it be objectively assessed?	
19:00	<i>Agustina Resasco:</i> Assessing mouse welfare with a novel judgement bias task: validation and application to oncology	<i>Krista McLennan:</i> Facial expression in French bulldogs: A preliminary study
19:15-19:45	<b>Break: Posters on demand or networking in the virtual coffee-room</b>	
19:45-21:00	<b>Parallel sessions continued</b>	
19:45	<i>Tayla Hammond:</i> Acoustic playback paradigms alter affective states in juvenile male Wistar rats	<i>Aiden Juge:</i> Canine Olfaction as a Disease Detection Technology: A Systematic Review
20:00	<i>Emma Tivey:</i> The neural correlates of tickling may differ from those involved in pro-social behaviours	<i>Erin Ryan:</i> Non-target Interactions and Humaneness Evaluation of Captive Bolt Traps in Rodent Control
20:15	<i>Carole Fureix:</i> Is time spent inactive but awake in the home cage in mice alleviated by antidepressant, by environmental enrichment, and/or by both?	<i>Selene Nogueira:</i> Individual temperament traits of chestnut-bellied seed-finches ( <i>Sporophila angolensis</i> ) affect their exploratory behavior during pre-release training
20:30	<i>Birte Nielsen:</i> How can we improve the welfare of animals used in behavioural tests?	<i>Sayantani Basak:</i> Unlocking urban animal response to reduced human activity during COVID-19 lockdown
20:45	<i>Anna Olsson/Sophie Brajon:</i> Unreliability of pup mortality estimation in laboratory mouse breeding is a consequence of cannibalism but not infanticide	<i>Courtney Graham:</i> Identifying the scaredy cat: training improves public rating of emotional states in kittens
0:00-1:00	<b>Eating with Ethologists: Zoom</b>	

Wednesday, August 4, 2021

Times in Irish Summer Time (UTC +1)

9:15-10:15	Parallel sessions <i>Stage 1</i> Welfare of Bovids (2)	<i>Stage 2</i> Emotion, Cognition and Behavioural Testing
09:15	<i>Kimberly Reuschner</i> : Preference for ventilation and social contact in pair-housed dairy calves in outdoor hutches	<i>Charlotte Goursot</i> : Affective styles and animal welfare
09:30	<i>Dharma Sahu</i> : Effect of bull biostimulation on puberty and estrus behaviour of Murrah buffalo heifers	<i>Sara Hintze</i> : Going with the flow – balancing skill and challenge for positive welfare
09:45	<i>Manmohan Singh</i> : Effect of bull biostimulation on estrus behaviour and reproductive performance of postpartum Sahiwal cows ( <i>Bos indicus</i> )	<i>Christian Nawroth</i> : Selection for high performance altered behavioural flexibility, but not comprehension of physical and social cues, in goats
10:00	<i>Vinayak Ingle</i> : Effect of fence-line and restricted cow-calf contact on behaviour, health and growth performance of Sahiwal ( <i>Bos indicus</i> ) calves	<i>Katrina Rosenberger</i> : Performance of goats in a spatial detour and a problem-solving task following long-term cognitive test experience.
10:15-10:45	<b>Break: Posters on demand or networking in the virtual coffee-room</b>	
10:45-12:00	<b>Parallel sessions continued</b>	
10:45	<i>Veenesh Rajpoot</i> : Welfare status of dairy animals in field conditions	<i>Lucy Oldham</i> : Qualitative behaviour assessment of pigs' emotions prior to an agonistic encounter
11:00	<i>Miroslav Kjosevski</i> : Social network analysis for associating the social behaviour and attributes of dairy cows	<i>Alja Mazzani</i> : Phenotyping addictive-like behaviour towards toys in dogs using a behaviour test and questionnaire
11:15	<i>Susanne Waiblinger</i> : Early maternal contact affects dairy animals' spontaneous social behaviour and sociality	<i>Sara Verlinden</i> : Influence of cold incubation on later life distress experiences.
11:30	<i>Guilherme Amorim Franchi</i> : Dairy cows fed an energy-reduced diet ad libitum during dry-off display behavioural changes indicative of hunger	<i>Rajashree Rath</i> : Do Buffalo calves speak through their ears?
11:45	<i>Laura Shrewbridge Carter</i> : Do cows want to be outside in the autumn?	
12:00-14:00	<b>Posters &amp; coffee - Virtual coffee room Wonder</b>	
12:00-13:00	Poster sessions 3 and 4 Companion and Wildlife Management Emotion, Cognition and Behavioural Testing	
13:00-14:00	Poster sessions 5 and 6 Welfare of Bovids Human Behaviour Change for Animal Welfare	

<b>14:00-14:45</b>	<b>Plenary: Human Behaviour Change for Animal Welfare Stage 1</b>	
	<i>Jean-Loup Rault:</i> Positive animal welfare: bridging the gap or raising inequalities worldwide?	
<b>14:45-15:15</b>	<b>Parallel Sessions</b>	
	<b>Stage 1</b>	<b>Stage 2</b>
	<b>Human Behaviour Change for Animal Welfare</b>	<b>Social Behaviour</b>
14:45	<i>Megan Hayes:</i> Piglets' fear of novelty and humans is influenced by housing systems and human interaction	
15:00	<i>Noémie Lerch:</i> Interest in humans: comparisons between riding school lesson equids and assisted-intervention equids	<i>Denise Hebesberger:</i> The effects of social interactions on heart rates of group-housed horses
<b>15:15-15:45</b>	<b>Break: Posters on demand or networking in the virtual coffee-room</b>	
<b>15:45-17:00</b>	<b>Parallel sessions continued</b>	
15:45	<i>Lauren Finka:</i> Cats are more affiliative and display fewer signs of conflict and agonistic behaviour when humans adopt a more cat-centric approach during cat-human interactions	<i>Nikolina Mesarec:</i> Recurrence of agonistic interactions between littermates after mixing multiple litters at weaning
16:00	<i>Kristi Benson:</i> Behaviour modification for dogs who are fearful or neutral at the vet: The Academy's Husbandry Project	<i>Désirée Brucks:</i> Do pigs show prosocial behaviours in a group service paradigm? A pilot study
16:15	<i>Carly O'Malley:</i> Understanding barriers to refining rodent handling and training techniques amongst laboratory animal professionals	<i>Simon Turner:</i> Relationship between dominance hierarchy formation and aggression social network properties in newly mixed pigs
16:30	<i>Lexis Ly:</i> Exploring the Relationship Between Human Social Deprivation and Animal Surrender to Shelters in British Columbia, Canada	<i>Rosemary Whittle:</i> Maternal fed omega-3 fatty acids have sex specific effects on social anxiety in broiler chickens
16:45	<i>Lisa Gunter :</i> Emergency Fostering of Dogs from Animal Shelters During the COVID-19 Pandemic: Shelter Practices, Foster Engagement, & Dog Outcomes	<i>Frania Shelley-Grielen:</i> Why can't we be friends? From aggression to affiliation in multi cat households
<b>17:00-19:00</b>	<b>Posters + wine &amp; cheese - Virtual coffee room Wonder</b>	
17:00-18:00	Poster sessions 7, 8 and 9: Social Behaviour Farm Animal Housing and Enrichment Welfare and Welfare Assessment	
18:00-19:00	Poster sessions 10, 11 & 12: Early Life and Maternal care Welfare of Working Animals Management of Free-Roaming Animals	

19:00-20:15	<b>Parallel sessions</b> <b>Stage 1</b> <b>Farm Animal Housing and Enrichment</b>		<b>Stage 2</b> <b>Welfare and Welfare Assessment</b>
19:00		<i>Mayamitta Saini:</i> On-farm assessment of welfare status of dairy animals under extensive production system in Uttarakhand state of India	
19:15		<i>Miguel Somarriba:</i> The effects of a commercially relevant composite stressor treatment on behaviour and physiological responses in beef cattle	
19:30	<i>Jakob Winter:</i> Piling behaviour and smothering in British layer flocks: a mixed-methods investigation	<i>Giovanni Marcone:</i> Animal-based indicators for the evaluation of sheep welfare on-farm	
19:45	<i>Heng-Lun Ko:</i> Effect of loose pens with temporary crating on piglet crushing	<i>Francesca Carnovale:</i> The effects of heat stress on sheep welfare during live export voyages from Australia to the Middle East	
20:00	<i>Essam Abdelfattah:</i> 2019 Survey of antimicrobial drug use and stewardship practices in adult cows on California dairies	<i>Laura Salazar:</i> Ad-lib fed finishing pigs perform oral behaviours usually associated with hunger in dry sows	
20:15-20:45	<b>Break: Posters on demand or networking in the virtual coffee-room</b>		
20:45-22:15	<b>Parallel sessions continued</b>		
20:45	<i>Chantal LeBlanc:</i> Evaluation of broiler chicken environmental enrichments for animal welfare benefits under commercial field conditions	<i>Valentine Obiasogu:</i> Assessment of Cattle Welfare and Ethical Practices in Akinyele Abattoirs, Ibadan	
21:00	<i>Renee Garant:</i> Accessing elevated tiers in a complex housing system is affected by the presence of intact flight feathers in egg-laying chickens	<i>Anice Thomas:</i> Objective determination and quantification of pain associated with digital dermatitis lesions	
21:15	<i>Tessa Grebey:</i> Daily Morning Litter Restriction: Variation in Dust Bathing Patterns Among 4 Genetic Strains of Laying Hen	<i>Cassandra Reedman:</i> The effects of xylazine sedation in 2 to 6-week-old calves disbudded with a cautery iron	
21:30	<i>R. Cyril Roy:</i> Farrowing crates to open pens for sows: Changes in behaviour and what it means	<i>Brittany Perron:</i> The influence of severity of gastric ulceration on horse behavior and heart rate variability	
21:45	<i>Blair Downey:</i> Long hay provision in a bucket or a novel feeding device reduces abnormal behaviors in milk-fed dairy calves	<i>Teresa Collins:</i> An animal welfare assessment protocol for use in the Australian live export industry	
22:00		<i>Emma Dunston-Clarke:</i> Piloting a welfare assessment protocol for sheep in preparation for sea transport	

Thursday, August 5, 2021

Times in Irish Summer Time (UTC +1)

9:00-9:45	<b>Plenary: Application of Technology to Applied Animal Behaviour and Welfare Stage 1</b>	
	<i>Bas Rodenburg</i> : Back to the future: moving towards more natural animal production systems, supported by 21st century technology	
9:45-10:15	<b>Oral session - Stage 1</b>	
	<b>Application of Technology to Applied Animal Behaviour and Welfare (2)</b>	
09:45	<i>Malou van der Sluis</i> : Automated activity recordings throughout life in broilers: heritability of activity and the relationship with body weight	
10:00	<i>Mike Toscano</i> : Identifying movement sub-populations of laying hens within a commercially-relevant aviary: Persistency and implications	
10:15-10:45	<b>Break: Posters on demand or networking in the virtual coffee-room</b>	
10:45-12:00	<b>Parallel sessions</b>	
	<b>Stage 1</b>	<b>Stage 2</b>
	<b>Application of Technology to Applied Animal Behaviour and Welfare (2) continued</b>	<b>Welfare of Working Animals</b>
10:45	<i>Elodie Briefer</i> : Towards an automated classification of pig calls according to their emotional valence and behavioural context: a comparison of methods	<i>Syed Bukhari</i> : Impact of Mounted Loads on Welfare of Working Equids
11:00	<i>Lisette van der Zande</i> : Monitoring activity on an individual level of group-housed pigs using computer vision	<i>Elena Gobbo</i> : Real-time aggression activates stress axis but not serotonergic system in police working dogs
11:15	<i>Martyna Lagoda</i> : Personality and birth characteristics of piglets reflect patterns of electronic feeder (ESF) use by their mothers	<i>Fanny Menuge</i> : Go back to the foster family every weekend: what is the impact on stress of future guide dogs in an ongoing training program?
11:30	<i>Rick D'Eath</i> : 3D cameras to measure tail posture on commercial farms: lameness, tail and ear biting are associated with low tails	<i>Natasha Clark</i> : Releasing Elephants from Overnight Tethers: Impacts on Behaviour and Welfare
11:45	<i>Maëva Manet</i> : Influence of genetics and light during incubation on stress responsivity in young laying hens	<i>Saber Y Adam</i> : Welfare Assessment of Working Horses and Their Owners perceive in Fashir and Zalingei, Darfur, Sudan
12:00-13:30	<b>Parallel workshops - Zoom</b>	
	<b>Workshop 5</b> - Open science in applied ethology	<b>Workshop 6</b> - The economic and welfare impact of sub-optimal mobility and hoof health in dairy cows

<b>14:00-15:15</b>	<b>Oral session - Stage 1 Early Life and Maternal Care</b>
14:00	<i>Prasanna Basavaraju</i> : Farm animal welfare through adoption of automation rearing system in Dairy Farms
14:15	<i>Anina Vogt</i> : Don't forget the dams. Stress reactions of dairy cows to two different weaning and separation methods in cow-calf-contact systems
14:30	<i>Vivian Wijtes</i> : Effects of on-farm hatching on layer chick welfare and cognitive flexibility
14:45	<i>Alex Johny</i> : Use of light cues encourages earlier and increased use of ramps in the early life of laying hens
15:00	<i>Regine Holt</i> : Early life exposure to environmental choice affects behavioural development in laying hens

**15:15-15:45 Break: Posters on demand or networking in the virtual coffee-room**

<b>15:45-17:00</b>	<b>Oral session continued</b>
15:45	<i>Oluwaseun Iyasere</i> : Which is more stressful: physical or visual separation of hen from chicks?
16:00	<i>Victoria McEvoy</i> : Benefits of a Novel Socialisation Protocol on Commercially Bred Dogs
16:15	<i>Claire Toinon</i> : Growing up without a mom: early social deprivation affects goat kids' social behaviour
16:30	<i>Rebecka Hellgren</i> : Sow and Piglet Welfare: Implications of Different Ages of Weaning
16:45	<i>Ana Rentsch</i> : Effect of Brooding Compartment Design on Physical Abilities of Laying Hen Chicks

**17:00-18:00 Annual General Meeting**



**Friday, August 6, 2021**

**Times in Irish Summer Time (UTC +1)**

<b>14:00-15:00</b>	<b>Oral Session - Stage 1 Management of Free-Roaming Animals</b>
14:00	<i>Lauren Smith</i> : Assessing the impact of free-roaming dog population management through systems modelling
14:15	<i>Abi Collinson</i> : Identifying research priorities for canine surgical sterilisation programmes: What are the unanswered questions?
14:30	<i>Miriam Casaca</i> : Is there hope beyond fear? Effects of social rehabilitation on unsocialized stray dogs
14:45	<i>Mohammad Alam</i> : Management of free-roaming dogs at a Chattogram Veterinary School of Bangladesh

**15:00:-16:00** **Break: Networking in the virtual coffee-room**

**16:00:-17:00** **Awards and Closing**