

# Scientific and social programme

## Monday 7 August

- 15.00- 18.00 Registration at Aarhus University, Main Hall  
17.00- 19.00 Welcome reception at Aarhus University. Venue: Main Hall

## Tuesday 8 August

- 8.00 Placing of posters and registration
- 9.00 Opening Ceremony at Aarhus Music Hall. Venue: Rhythmic Hall
- 9.45 **Wood-Gush Memorial Lecture: Peter Teglberg Madsen: Echolocating whales as models for studying how information flow governs behaviour. Venue: Aarhus Music Hall, Rhythmic Hall**  
*Chairperson: Margit Bak Jensen*
- 10.30 **Break**
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| Session 1, Topic 01 at Rhythmic Hall: The world of animals: senses and perception<br><i>Chairperson: Kathryn Proudfoot</i>                                   | Session 2, Topic 02 at Small Hall: Free papers<br><i>Chairperson: Janice Siegford</i>                                       |
| 11.30 Key-note: The role of olfaction in relation to stress and fear. <i>Vincent Bombail</i>   | Key-note: Literature review on priority welfare issues of commercially raised bison in North America. <i>John S. Church</i> |
| 12.00 Olfactory enrichment for cattle? Development of tests for determining olfactory investigation of complex odours in cattle. <i>Maria Vilain Rørvang</i> | Associations between measures of rising and lying down behaviour in dairy cows. <i>Nina Dam Otten</i>                       |
| 12.15 Do dogs see the Ponzo illusion? <i>Sarah-Elizabeth Byosiere</i>  | Feedlot cattle are motivated to obtain roughage and show contrafreeloading. <i>Cassandra Tucker</i>                         |
| 12.30 <b>Lunch sponsored by DeLaval</b><br><i>Regional Secretaries' lunch</i>  |   |
| Session 3, Topic 01 at Rhythmic Hall: The world of animals: senses and perception<br><i>Chairperson: Linda Keeling</i>                                       | Session 4, Topic 03 at Small Hall: Human-animal interactions<br><i>Chairperson: Marie Haskell</i>                           |
| 13.30 Key-note: Taking into account different sensory abilities of animals in their housing and management. <i>Birte L. Nielsen</i>                          | Key-note: Dogs, humans and genes: evidence for mutualistic symbiosis? <i>Per Jensen</i>                                     |
| 14.00 The impact of ultraviolet wavelength on broiler chicken welfare indicators. <i>Charlotte James</i>   | Rat tickling: a systematic review of methods, outcomes and moderators. <i>Megan R. LaFollette</i>                           |
| 14.15 How incline angle affects the preparatory step prior to climbing a ramp in domestic fowl? <i>Alexandra Harlander</i>                                   | Cattle handling by untrained stockpeople gets worse along a vaccination work day. <i>Maria Camilla Ceballos</i>             |
| 14.30 Do mink mothers recognise their kits' vocalisations? <i>Jens Malmkvist</i>   | The behavioural and physiological responses of horses to routine handling. <i>Jenna Kiddie</i>                              |
| 14.45 Behavioural indicators for cats' perception of food: A novel tool for development of veterinary pharmaceuticals. <i>Helena Telkanranta</i>             | Tourism and marine mammal welfare. <i>Donald Broom</i>  |
| 15.00 <b>Break and poster session 1</b>  |   |
| 16.00 ISAE AGM   |   |
| 17.30 Reception at the Town Hall of Aarhus (1 h)   |   |

## Wednesday 9 August

9.00	PLENARY: Mike Appleby: Understanding human and other animal behaviour: ethology, welfare and food policy. Venue: Aarhus Music Hall, Rhythmic Hall <i>Chairperson: Mette S. Herskin</i>	
	Session 5, Topic 04 at Rhythmic Hall: Applying ethology in the keeping of animals <i>Chairperson: Trevor DeVries</i>	Session 6, Topic 02 at Small Hall: Free papers  <i>Chairperson: Ruth Newberry</i>
9.30	The welfare of working dogs in cars. <i>Lena M. Skånberg</i>	The limits of animal welfare concepts. <i>Jes Harfeld</i>
9.45	Do cull dairy cows become lame from being transported? <i>Kirstin Dahl-Pedersen</i>	Behaviour and brain gene expression of environmentally enriched pigs. <i>Alistair Lawrence</i>
10.00	The effect of overstocking different resources within a freestall pen on the behaviour of lactating Holstein cows. <i>Clay Kesterson</i>	Can body nosing in early-weaned piglets be prevented by artificial sucking and nosing devices? <i>Roland Weber</i>
10.15	Effect of water temperature on drinking behavior and stress response of sheep. <i>Shin-ichiro Ogura</i>	Multiple enriched cages increase silver fox cubs' confidence and reduce stereotypic head twirls. <i>Anne Lene Hovland</i>
10.30	<b>Break and poster session 2</b>	
	Session 7, Topic 04 at Rhythmic Hall: Applying ethology in the keeping of animals <i>Chairperson: Stefan Gunnarsson</i>	Session 8, Topic 05 at Small Hall: Animal stress responses  <i>Chairperson: Jeremy Marchant-Forde</i>
11.30	Effects of genetic background and selection for egg production on food motivation in laying hens. <i>Anissa Dudde</i>	Who's stressed? Nonlinear measures of heart rate variability may provide new clues for evaluating the swine stress response. <i>Christopher J. Byrd</i>
11.45	On-farm techniques used to minimize aggression in pigs by US pork producers. <i>Sarah H. Ison</i>	Effect of space allowance and simulated sea transport motion on the behaviour and heart rate of sheep. <i>Grisel Navarro</i>
12.00	If you give the pig a choice: suckling piglets eat more from a diverse diet. <i>Anouschka Middelkoop</i>	Effects of acute lying and sleep deprivation on behaviour and milk production of lactating Holstein dairy cows. <i>Jessie A. Kull</i>
12.15	Impact of straw particle size and reticulorumen health on the feed sorting behaviour of early lactation dairy cows. <i>Rachael Coon</i>	Can faecal cortisol metabolites be used as an Iceberg indicator in the on-farm welfare assessment system WelFur-Mink? <i>Anna F. Marsbøll</i>
12.30	<b>Lunch</b> <i>Students' lunch "Eating with ethologists"</i>	
	Session 9, Topic 06 at Rhythmic Hall: Animal learning and cognition <i>Chairperson: Dorte Bratbo Sørensen</i>	Session 10, Topic 05 at Small Hall: Animal stress responses  <i>Chairperson: Alistair Lawrence</i>
13.30	Key-note: From Pavlov to Bekhterev – and the pros and cons of positive and negative reinforcement. <i>Janne Winther Christensen</i>	Key-note: The effect of a low dose of lipopolysaccharide (LPS) on physiology and behaviour of individually housed pigs. <i>Janicke Nordgreen</i>
14.00	Development of an ethical virtual fencing system for sheep. <i>Danila Marini</i>	Effects of embryonic norepinephrine on juvenile and mature quail behaviors. <i>Jasmine Mengers</i>
14.15	Motor self-regulation by goats ( <i>Capra aegagrus hircus</i> ) in a detour-reaching task. <i>Jan Langbein</i>	The influence of social stress on three selected lines of laying hens. <i>Patrick Birkel</i>
14.30	Cylinder size affects cat performance in the motor self-regulation task.	Feather pecking: is it in the way hens cope with stress? <i>Jerine A. J. Van Der Eijk</i>

	<i>Katarzyna Bobrowicz</i>	
14.45	Factors affecting dairy calves' abilities to learn to use colour cues to locate a source of milk. <i>Jeffrey Rushen</i>	Do feather peckers, victims and control hens differ in symmetry of bilateral traits, body weight and comb size? <i>Fernanda M. Tahamtani</i>
15.00	<b>Break and poster session 3</b>	
	Session 11, Topic 06 at Rhythmic Hall: Animal learning and cognition <i>Chairperson: Jan Ladewig</i>	Session 12, Topic 05 at Small Hall: Animal stress responses <i>Chairperson: Anna Valros</i>
16.00	Goats prefer happy human faces. <i>Christian Nawroth</i>	Investigation of response to the novel object test in pigs in relation to tail biting phenotypes. <i>Jen-Yun Chou</i>
16.15	Responses in novelty tests are associated with grain intake and unrewarded visits to the milk feeder in dairy calves. <i>Heather W. Neave</i>	Effects of elevated platforms on fearfulness in fast-growing broilers. <i>Ida J. Pedersen</i>
16.30	Light during incubation and noise around hatching affect cognitive bias in laying hens. <i>Bas T. Rodenburg</i>	Meloxicam and temperament effects on pain sensitivity and inflammatory response in surgical or rubber ring castrated calves. <i>Désirée Soares</i>
16.45	Facial expressions of emotion influence sheep learning in a visual discrimination task. <i>Lucille Bellegarde</i>	Cat responses to handling: Assessment of scruffing, clips, and full body restraint. <i>Carly Moody</i>
18.30	Conference dinner. Venue: Turbine Halls, Aarhus	

## Thursday 10 August

9.00	PLENARY: Jean-Loup Rault: Positive social behaviour: Inside out. Venue: Aarhus Music Hall, Rhythmic Hall <i>Chairperson: Lene Munksgaard</i>	
	Session 13, Topic 07 at Rhythmic Hall: Social behaviour of animals <i>Chairperson: Bas Rodenburg</i>	Session 14, Topic 04 at Small Hall: Applying ethology in the keeping of animals <i>Chairperson: Michael Cockram</i>
9.45	Artificial intelligence algorithms as modern tool for behavioural analysis in dairy cows. <i>Oleksiy Guzhva</i>	Lowered tail can predict a tail biting outbreak in grower pigs. <i>Helle Pelant Lahrman</i>
10.00	Best friends forever, new approach to automatic registration of changes in social networking in dairy cows. <i>Per Peetz Nielsen</i>	Using hen-mounted light sensors to monitor outdoor range use. <i>Stephanie Buijs</i>
10.15	Phenolab: ultra-wide band tracking shows feather pecking hens spent less time in close proximity compared to controls. <i>Elske N. De Haas</i>	Housing laboratory mice from the mouse's point of view. <i>Elin M. Weber</i>
10.30	<b>Break and poster session 4</b>	
	Session 15, Topic 07 at Rhythmic Hall: Social behaviour of animals <i>Chairperson: Vivi Aarestrup Moustsen</i>	Session 16, Topic 04 at Small Hall: Applying ethology in the keeping of animals <i>Chairperson: Anja Brinch Riber</i>
11.30	Floor feeding over multiple drops does not increase feeding opportunities for submissive sows. <i>Megan Verdon</i>	Welfare relevance of floor area for single-housed female mink (Neovison vison). <i>María Díez-León</i>
11.45	The effect of socialization before weaning on social behaviour and performance in piglets ( <i>Sus scrofa</i> ) at a commercial farm. <i>Laura Salazar</i>	Differential effects of enrichment on the subtypes of stereotypic behaviour in mink. <i>Andrea Polanco</i>

12.00	Socialisation, play behaviour, and the development of aggression in domestic pigs ( <i>Sus scrofa</i> ). <i>Jennifer Weller</i>	Effects of space allowance and simulated sea transport motion on the behavior. <i>Ramazan Col</i>
12.15	Intensity of aggression in pigs depends on their age and experience at testing. <i>Irene Camerlink</i>	Cooling cows with soakers: effects of flow rate and spray frequency on behaviour and physiology. <i>Grazyne Tresoldi</i>
12.30	<b>Lunch</b> <i>Global Development Lunch for attendees from Africa, Asia, Latin America, the Middle East and Eastern Europe</i>	
	Session 17, Topic 08 at Rhythmic Hall: Animal affective states <i>Chairperson: Björn Forkman</i>	Session 18, Topic 09 at Small Hall: Maternal and neonatal behaviour <i>Chairperson: Janne Winther Christensen</i>
13.30	Key-note: What can facial expression reveal about animal welfare? Supporting evidence and potential pitfalls. <i>Kris Descovich</i>	Key-note: The affective dyad: the role of maternal behaviour in positive affective states of mother and young. <i>Cathy M. Dwyer</i>
14.00	Do dogs smile when happy? An objective and comparative study of dog and human facial actions in response to emotional trigger. <i>Cátia Correia-Caeiro</i>	Dairy cows and heifers prefer to calve in a bedded pack barn or natural forage compared to open pasture. <i>Erika M. Edwards</i>
14.15	Facial expression of harbour seal pups ( <i>Phoca vitulina</i> ) in response to painful stimuli. <i>Amelia Mari Macrae</i>	Factors affecting maternal protective behavior in Nellore cows. <i>Marcia Del Campo</i>
14.30	The startle response as a measure of fear in dairy calves. <i>Sarah J. J. Adcock</i>	Preference for mother does not last long after weaning in lambs. <i>Rodolfo Ungerfeld</i>
14.45	Pre-weaning environment affects pigs' emotional reactivity. <i>Oceane Schmitt</i>	Behavioral responses of dairy calves to separation: the effect of nutritional dependency on the dam. <i>Julie Føske Johnsen</i>
15.00	<b>Break and poster session 5</b>	
	Session 19, Topic 08 at Rhythmic Hall: Animal affective states <i>Chairperson: Andrew Janczak</i>	Session 20, Topic 09 at Small Hall: Maternal and neonatal behaviour <i>Chairperson: Sandra Edwards</i>
16.00	Lying around with nothing to do: boredom in farmed mink. <i>Rebecca K. Meagher</i>	Does farrowing duration affect maternal behaviour of outdoor kept sows? <i>Cecilie Kobek Thorsen</i>
16.15	Can minor, easily applied alterations of routines during the rearing period reduce fearfulness in adult laying hens? <i>Margrethe Brantsæter</i>	Does dietary tryptophan around farrowing affect sow behavior and piglet mortality? <i>Jeremy N. Marchant-Forde</i>
16.30	Assessing anxious states in sheep: a more practical attention bias test. <i>Jessica Monk</i>	Relationships between sow conformation, accelerometer data and crushing events in commercial piglet production. <i>Stephanie Matheson</i>
16.45	Development of behavioural tests for WelFur on-farm welfare assessment of foxes. <i>Jaakko Mononen</i>	Effects of litter size on maternal investment and neonatal competition in pigs with different genetic selection pressures. <i>Marko Ocepek</i>
17.10	Closing of conference. Venue: Aarhus Music Hall, Rhythmic Hall	
18.00	Farewell Reception. Venue: Aarhus Music Hall	