Program at a glance

	Sunday 7/31	Monday 8/1	Tuesday 8/2	Wednesday 8/3	Thursday 8/4
Morning	Council meeting	Opening Ceremony	Parallel Session	Plenary 3	Plenary 5
	Council meeting	Plenary 1	Parallel Session	Parallel Session	Parallel Session
	Council meeting	Parallel Session	Wood-Gush Memorial Lecture	Parallel Session	Parallel Session
Lunch					
Afternoon	Registration opens	Plenary 2	Excursions	Plenary 4	Plenary 6
		Parallel Session	Excursions	Parallel Session	Parallel Session
		Parallel Session	Excursions	Annual General Meeting	Parallel Session Closing ceremony
Evening	Welcome Reception at the Eiteljorg Museum		Excursions	Banquet at the Hyatt Regency	Farewell Party at the Baseball Game

Theater Presentations – Titles and Presenting Author

8.00- 9.30 Plenary 1 – Pain, Distress & Humane End-Points 9.30- 10.00 Sex differences in lamb pain sensitivity develop after birth Ngaio Beausoleil 10.00- 10.45 Parallel Sessions	
9.00- 9.30 Plenary 1 – Pain, Distress & Humane End-Points 9.30- 10.00 Sex differences in lamb pain sensitivity develop after birth Ngaio Beausoleil 10.00- 10.45 Coffee Break & Posters (odd numbers)	
9.30 Plenary 1 – Pain, Distress & Humane End-Points 9.30- 10.00 Sex differences in lamb pain sensitivity develop after birth Ngaio Beausoleil 10.00- 10.45 Coffee Break & Posters (odd numbers)	
9.30- 10.00 Plenary 1 – Pain, Distress & Humane End-Points Sex differences in lamb pain sensitivity develop after birth Ngaio Beausoleil 10.00- 10.45 Coffee Break & Posters (odd numbers)	
10.00 Sex differences in lamb pain sensitivity develop after birth **Ngaio Beausoleil** 10.00- 10.45 Coffee Break & Posters (odd numbers)	
Ngaio Beausoleil 10.00- Coffee Break & Posters (odd numbers) 10.45	
10.00- Coffee Break & Posters (odd numbers) 10.45	
10.45	
10.45- Parallel Sessions	
12.00	
Session 1: Session 2: Pain, Distress & Humane End-Points 1 Companion Animal Behavior	r & Welfare
10.45 Effects of age on piglet distress associated with euthanasia by carbon dioxide or by a carbon dioxide: argon mixture concrete in a two-way simularity presentation choice to Louise Buckley	ed Astroturf to Itaneous
11.00 I'm not going there! using conditioned place preference to assess the aversiveness of restraint and blood sampling in piglets Puja Wahi Do you think I ate it? Behavioral and owner perceptions of "guilty dogs Julie Hecht	
11.15 Non-steroidal anti-inflammatory drugs to mitigate pain in lame sows **Comparison of the image of the i	nelled dogs
11.30 Validation of assessment of nociceptive responses in pigs' skin identify 'amicable' dog Pierpaolo Di Giminiani Tammie King	
11.45 2011 Update of the AVMA Guidelines on Euthanasia methods commonly used to a socialization status of shelter of Katherine Miller	determine
12.00- Lunch	
1.30	
1.30- 2.00 Plenary 2 – Maternal Behavior & Effects Echoes from the past: does maternal heat stress adjust offspring to high temper experiment in quails Rie Henriksen	erature? An
2.00- Parallel Sessions	
3.00 Session 1 (contd): Session 3:	
Pain, Distress & Humane End-Points 2 Reproductive & Maternal E	Behavior
2.00 Quantitative sensory testing for assessing wound pain in livestock cows with calving diffic Sabrina Lomax Alice Barrier	
2.15 Exposure to negative events induces chronic stress and increases emotional reactivity in sheep Communication in cattle (mother-offspring recognises) Monica Padilla-De La 1	nition
Alexandra Destrez	
2.30 Castration as a model for studying paintriggered behavioral responses in growing calves Lily Edwards Reproductive and physiologic bedding substrate on ICR and Calves Swan, Melissa	57BL/6J mice
2.30 Castration as a model for studying pain- triggered behavioral responses in growing calves Reproductive and physiologic bedding substrate on ICR and Cs. Swan, Melissa	57BL/6J mice low mortality

3.45			
3.45-	Parallel Sessions		
5.00			
	Session 1 (contd):	Session 4:	
	Pain, Distress & Humane End-Points 3	Communication & Cognition	
3.45	Effect of time, parity and meloxicam	Are auditory cues useful when training	
	(Metacam®) treatment on general activity in	American mink (Neovison vison)?	
	dairy cattle during the puerperal period	Pernille Svendsen	
	Eva Mainau		
4.00	The effect of a topical anaesthetic wound	A development of a test to assess cognitive	
	dressing on the behavioural responses of	bias in pigs	
	calves to dehorning	Antonio Velarde	
	Crystal Espinoza		
4.15	The relationship between fearfulness at a	Learning how to eat like a pig: effectiveness of	
	young age and stress responses in the later	mechanisms for vertical social learning in	
	life of laying hens	piglets	
	Elske De Haas	Marije Oostindjer	
4.30	A case study to investigate how behaviour in	Affective qualities of the bark vocalizations of	
	donkeys changes through progression of	domestic juvenile pigs	
	disease	Winnie Chan	
	Florence Elphick		
4.45	A novel approach of pain recognition and	What do ears positions tell us about horse	
	assessment in donkeys – Initial results	welfare?	
	Neville Gregory	Fureix, Carole	

Tuesday 2 nd August			
8.30-	Parallel Sessions		
10.15			
	Session 5: Engineering environments & measurement technologies for science and welfare	Session 6: Qualitative behavioral assessment	
8.30	Environment and the development of feather pecking in a commercial turkey facility Stephanie Torrey	Inter-observer reliability of Qualitative Behaviour Assessment on farm level in farmed foxes Ahola, Leena	
8.45	The effect of cage design on mortality of white leghorn hens: an epidemiological study Joe Garner	Qualitative Behavioural Assessment can detect artificial manipulation of emotional state in growing pigs **Kenny Rutherford**	
9.00	Remedies for the high incidence of broken eggs in furnished cages: effectiveness of increasing nest attractiveness and lowering perch height Frank Tuyttens	The welfare of pigs in five different production systems in France and Spain: assessment of behavior Deborah Temple	
9.15	Non-cage laying hen resource use is not reduced by wearing a wireless sensor after habituation Courtney Daigle	The inter-observer reliability of qualitative behavioural assessments of sheep Clare Phythian	
		Session 7: Poultry Behavior & Welfare 1	
9.30	Effect of exit alley blocking and back-up incidences on the accessibility of an automatic milking system Jackie Jacobs	Gregarious nesting as a response to risk of nest predation in laying hens Anja Riber	
9.45	Change-of-state dataloggers were a valid method for recording the feeding behavior of dairy cows using a Calan Broadbent Feeding System Peter Krawczel	Astroturf® as a dustbathing substrate for laying hens Gina Alvino	
10.00	An acclimation and handling protocol for implementation of GPS collars for monitoring beef cattle grazing behavior Angela Green	Feather pecking and serotonin: "the chicken or the egg?" Marjolein Kops	

10.15-	Coffee Break & Posters (odd numbers)	
11.00 11.00-	Wood-Gush Memorial Lecture	
12.00	Social Behavior: An Emergent and Adaptive Property of the Mammalian Autonomic Nervous System	
	Stephen Porges	
12.00- 6.00	Lunch & Excursions	

Wodpoeda	ay 3 rd August		
wednesda		Behavior, Welfare & Enrichment	
9.00- 9.30	Modifications induced by an enriched environment on reproductive physiology and postnatal development of Albino Swiss mice		
	Marina Ponzio		
9.30- 10.15	Parallel Sessions		
	Session 8: Laboratory Animal Behavior, Welfare & Enrichment 1	Session 9: Feeding Behavior & Welfare 1	
9.30	Effects of predictability on feeding and aversive events in captive rhesus macaques (Macaca mulatta) Daniel Gottlieb	Tail biting alters feeding behavior of victim pigs <i>Elina Viitasaari</i>	
9.45	Exercise pens as an environmental enrichment for laboratory rabbits Lena Lidfors	The effects of diet ingredients on gastric ulceration and stereotypies in gestating sows Stephanie Wisdom	
10.00	Does the presence of a human affect the preference of enrichment items in young isolated pigs? Shelly Deboer	Energy balance and feeding motivation of sheep in a demand test Amanda Doughty	
10.15-		sters (even numbers)	
11.00			
11.00- 12.00	Parallel Sessions		
	Session 8 (contd): Laboratory Animal Behavior, Welfare & Enrichment 2	Session 9 (contd): Feeding Behavior & Welfare 2	
11.00	Playful handling before an intra-peritoneal injection induces a positive affective state in laboratory rats Sylvie Cloutier	Effect of milk feeding level on the development of feeding behaviour patterns in dairy calves <i>Emily Miller-Cushon</i>	
11.15	The naked truth: breeding performance in outbred and inbred strains of nude mice with and without nesting material <i>Winnicker, Christina</i>	Behavioural patterns of dairy heifers fed different diets Angela Greter	
11.30	Unpredictable repeated negative stimulations modulates effects of environmental enrichment in birds <i>Laurence, Agathe</i>	The effect of lameness on feeding behavior of dairy cows Petro Tamminen	
11.45	Effects of conditioning on blood draw in cats Jessica Lockhart	How do different amounts of solid feed in the diet affect time spent performing abnormal oral behaviours in veal calves? Laura Webb	
12.00- 1.30	lunch		
	Plenary 4 – Social Behavior in Swine		

1.30- 2.00	Oxytocin reduces separation distress in piglets when given intranasally Jean-Loup Rault		
2.00-	Parallel Sessions		
3.00			
	Session 8 (contd):	Session 10:	
	Laboratory Animal Behavior, Welfare & Enrichment 3	Sow Housing	
2.00	Is hair and feather pulling a disease of oxidative stress? Giovana Vieira	Policy changes to enable sows to express behavioural needs in intensive housing conditions Cheryl O'Connor	
2.15	Implications for animal welfare: Habituation profiles of 129S2, 129P2 and 129X1 mouse strains Hetty Boleij	Determining the floor space requirement for group housed sows Fiona Rioja-Lang	
2.30	Identification methods in newborn C57BL/6 mice: A developmental and behavioural evaluation Magda Joao Castelhano-Carlos	Alleyway width in a free-access stall system influences gestating sow behavior and welfare <i>Laurie Mack</i>	
2.45	Behavioral and physiological thermoregulation in mice with nesting material Brianna Gaskill	Action-reaction: using Markov analysis to elucidate social behavior when unacquainted sows are mixed Jeremy Marchant-Forde	
3.00-	Coffee Break & Posters (all)		
3.30			
3.30-	ISAE Annual General Meeting		
5.30			
7.00-	Congress Banquet at Hyatt Regency Hotel		
11.00			

Thursday	4 th August		
	Plenary 5 – Zoo Animal Behavior, Welfare & Enrichment		
9.00-	Pohavior in natural and captive environments compared to access and enhance welfare of		
9.30	Behavior in natural and captive environments compared to assess and enhance welfare of zoo animals		
	200 di li li di		
	Paul Koene		
9.30-	Parallel Sessions		
10.15			
	Session 11:	Session 12:	
	Zoo Animal Behavior, Welfare & Enrichment 1	Dairy Behavior & Welfare 1	
9.30	Effects of enclosure size and complexity on	Separating the stressors: a pilot study	
	captive African elephant activity patterns	investigating the effect of pre-mixing calves on	
	Nancy Scott	the behavior and performance of dairy calves in a novel environment	
		Stanton, Amy	
9.45	Gender differences in stereotypical behavior	Dairy welfare in three housings systems in the	
	can be predicted by gender differences in	upper Midwest Marcia Endres	
	activity in okapi Deborah Fripp	Maicia Endres	
10.00	Personality and stereotypy components in	The effect of distance to pasture on dairy cow	
	okapi	preference to be indoors or at pasture	
10.15-	Jason Watters Gemma Charlton		
11.00	Coffee Break & Posters (all)		
11.00-	Parallel Sessions		
12.00	- araner		
	Session 11 (contd):	Session 13:	
	Zoo Animal Behavior, Welfare &	Human-Animal Interactions	
	Enrichment 2		

11.00	Individuals interacting with environmental enrichment: a theoretical approach Becca Franks	Owner visitation: Clinical effects on dogs hospitalized in an intensive care unit Rebecca Johnson	
11.15	Do impoverished environments induce boredom or apathy in mink? Rebecca Meagher	Robot milking does not seem to affect whether or not cows feel secure among humans Sine Norlander Andreasen	
11.30	Effects of shade on feeding behaviour and feed intake of female goat kids Lorenzo Alvarez	Relationship between amount of human contact and fear of humans in turkeys Naomi Botheras	
11.45	Zoo-housed chimpanzees and gorillas are highly selective in their space use: Implications for enclosure design, captive management and animal welfare. Stephen Ross	Characteristics of stockperson interactions with pigs in swine finishing barns Sara Crawford	
12.00- 1.30	lunch		
1.30-	Plenary 6 – Engineering environments & measurement technologies for science and welfare		
2.00	Perceptual threshold fo	r cold stress in dairy cows	
	·	·	
2.00-	Lindsay Matthews Parallel Sessions		
3.00			
	Session 11 (contd): Zoo Animal Behavior, Welfare & Enrichment 3	Session 14: Free Papers	
2.00	The effect of diet on undesirable behaviors in zoo gorillas Elena Hoellein Less	Animal abuse and cruelty: An evolutionary perspective Emily Patterson-Kane	
2.15	How animals win the genetic lottery: biasing birth sex ratio results in more grandchildren <i>Collette Thogerson</i>	Behavioural and physiological methods to evaluate fatigue in sheep following treadmill exercise Michael Cockram	
2.30	Reliability and validity of a subjective measure to record changes in animal behaviour over time Joanna Bishop	Do differences in the motivation for and utilisation of environmental enrichment determine how effective it is at eliminating stereotypic behaviour in American mink? Jamie Dallaire	
2.45	The positive reinforcement training effect: reduction of an animal's latency to respond to keepers' cues Samantha Ward	The effect of pasture availability on the preference of cattle for feedlot or pasture environments Caroline Lee	
3.00-		& Posters (all)	
3.45 3.45-	Parallel Sessions		
4.30			
	Session 15: Poultry Behavior & Welfare 2	Session 16: Dairy Behavior & Welfare 2	
3.45	Mobile laying hens Gebhardt-Henrich, Sabine	Physiological and behavioral response of crossbred zebu dairy cows submitted to different shade availability on tropical pasture Carlos Machado Filho	
4.00	Open water provision for pekin ducks to increase natural behaviour requires an integrated approach <i>Marko Ruis</i>	Changes is dairy cattle behaviour as a result of therapeutic hoof block application Janet Higginson	
4.15	Does water resource type affect the behaviour of pekin ducks (Anas platyrhynchos)? Donald Broom	Effect of different environmental conditions in loose housing system on claw health in Finnish dairy cattle Johanna Haggman	
4.30- 5.00	Closing of Conference		
6.00- 10.30	Farewell Party at Victory Field, Indianapolis		

Poster Presentations - Titles and Presenting Author

- Using behavior and physiology to assess the welfare of a rat model of multiple sclerosis
 Hickman, Debra
- Handling of painful procedures in dairy calf management in Santa Catarina state, Brazil Cardoso Costa, João
- 3. Strain variations in behavioral traits under heat stress in laying hens *Cheng, Heng-wei*
- **4.** Daily heart rate patterns of dairy cows in intensive farming conditions *Speroni, Marisanna*
- Euthanasia practice in Canadian animal shelters Caffrey, Niamh
- **6.** Shelter dog behavior improvement: Dog walking as enrichment *McKenney, Charlotte A*
- A new behavioural test for kittens before adoption Onodera, Nodoka
- **8.** Relaxing effect of four types of aromatic odors in dogs *Kuwahara, Yukari*
- **9.** The effects of space allowance and exercise for greyhounds on welfare *Jongman, Ellen*
- **10.** Behavioral assessment in dogs during animal-assisted interventions (MTI) *Glenk, Lisa Maria*
- **11.** Behavioral and physiological evaluation of welfare in shelter dogs in two different forms of confinement *Dalla Villa, Paolo*
- **12.** Reactions of mother-bonded vs. artificial rearing in dairy calves to isolation and confrontation with an unfamiliar conspecific in a new environment *Wagner, Kathrin*
- **13.** Sleep in dairy cows recorded with a non-invasive EEG technique *Ternman. Emma*
- **14.** Effects of sloped standing surfaces on cattle behavior and muscle physiology *Rajapaksha*, *Eranda*
- **15.** Goats might experience motion sickness during road transportation *Aoyama, Masato*
- **16.** The reliability of rumination data recorded by a commercial rumination monitor *Rutter, Mark*
- **17.** Sampling frequency and duration for behavioural analysis and effectiveness of electronic tracking *Sales, Tatiana*
- **18.** Nesting behaviour of laying hens housed in enriched environment *Pereira, Danilo Florentino*
- **19.** Effect of cage design on consistency of orientation and location during oviposition of laying hens *Engel, Joanna*
- **20.** The effect of ramp slope on heart rate, handling and behaviour of market pigs at unloading *Goumon, Sébastien*

- **21.** The comparison of two rating systems for Qualitative Behaviour Assessment in two situations *Winckler, Christoph*
- **22.** A comparison of three cattle temperament assessment methods *Sant'anna*, *Aline*
- **23.** When a duck leads, do others follow? Liste. Guiomar
- **24.** Different behavioural reactions to open field in growing broiler and layer chickens *Baranyiová*, *Eva*
- 25. The Effects of Using Different Levels and Sources of Zinc with Wire vs. Solid Sided Cages on Laying Hen Feather Quality Purdum, Sheila
- **26.** Stress following caging of shelter cats (Felis silvestrus catus) *Ellis, Jacklyn*
- **27.** Bathing behavior of captive Orange-Winged Amazon parrots (Amazona amazonica) *Murphy, Shannon*
- **28.** Decline in aggression in cotton rats through the use of enrichment *Neubauer, Teresa*
- **29.** Effects of stressors on the behavior and physiology of domestic cats *Stella, Judi*
- **30.** Dairy cattle preferences for feed bunks with or without sprinklers in summer *Chen, Jennifer*
- **31.** Effects of alternative housing and feeding systems on the behavior and performance of dairy heifer calves *Pempek, J.A.*
- **32.** Evaluation of the relationship between temperament, time spent at the feed trough and weight gain of finishing weight feedlot cattle **Soares, Désirée Ribeiro**
- **33.** Effects of providing a roof and locating food in an outside yard on behaviour of sheep kept in winter conditions *Jørgensen, Grete*
- **34.** Evaluation of conventional and large group auto-sort systems for grow/finish pigs *Brown, Jennifer,*
- **35.** Effects of ractopamine on stress-related hormone levels of purebred Berkshire swine **Betts, Katherine**
- **36.** Use of flavour association and preference tests in pigs to assess the palatability of pea diets *Rajendram, Janardhanan*
- 37. The influence of Acid-Buf™ mineral supplement on behaviour and salivary cortisol concentrations of uncastrated male and female growing pigs
 Boyle, Laura
- **38.** Conditioned place preference: a tool to determine hungry broiler diet preferences *Sandilands, Vicky*
- **39.** Feeding motivation and metabolites in pregnant ewes with different body condition scores *Verbeek, Else*
- **40.** The relationship between aggression, feeding times and injuries in pregnant group-housed sows *Verdon, Megan*

- **41.** Changes in aggression over time in pregnant sows post-mixing *Rice, Maxine*
- **42.** Feeding enrichment for Moloch Gibbons, Hylobates moloch *Wells, Deborah*
- **43.** The effect of visitors on the behaviour of zoo-housed chimpanzees and gorillas *Cooper, Tara*
- **44.** Olfactory enrichment in the gorilla *Hepper, Peter*
- **45.** Exotic animal seasonal acclimatization determined by non-invasive measurements of coat insulation *Langman, Vaughan*
- **46.** Effect of social rank and lactation number on milk parameters in a grazing dairy herd *Tresoldi, Grazyne*
- 47. Does walking through water stimulate cows to eliminate? Villettaz Robichaud, Marianne
- **48.** Factors predicting horse welfare outcomes from a recreational horse owner's performance of key horse husbandry practices

Hemsworth, Lauren

- **49.** Moderate exercise affects finishing cattle behavior and cortisol response to handling *Glynn*. *Hayley*
- **50.** Humans' perception of dogs in a research setting: Is there a difference between real dogs and virtual dogs? *Stetina, Birgit*
- **51.** Finding information on animal behavior and welfare: best practices for starting the literature review process *Adams, Kristina,*
- **52.** An assessment of the general activity of horses kept in large groups in a feedlot environment *Robertshaw, Marissa*
- **53.** The Animal Welfare Juddging & Assessment Competition: a review of the 1st 10 years *Heleski, Camie*
- **54.** Differences in the behavior of the progeny of different sire lines of Japanese Black cattle *Uetake, Katsuji*
- **55.** Difference in pawedness between male and female blue foxes (*Vulpes lagopus*) *Mononen, Jaakko*
- 56. Effect of an absence of wires from electric fences on movement of goats in the early stage of avoidance Kakihara, Hidetoshi
- **57.** Beef cattle preferences for sprinklers *Tucker, Cassandra*
- 58. Correlations between fearfulness in a temperament test and activity levels in the home pen in cross bred beef steers Mackay, Jill
- **59.** Differences behavioural in Nelore cows before and after use of intravaginal device of progesterone *Rueda, Paola Moretti*