



Humane Slaughter Association

HSA International Symposium 2015:

Recent Advances II

Zagreb, Croatia 16-17th July 2015

Information about the Symposium venue:

The Symposium is being held in the Hotel Dubrovnik on Ban Jelačić Square in the centre of Zagreb. Talks will take place in the Ban Jelačić conference room.

Delegates are kindly requested to take their seats in plenty of time before the start of each session. These will start promptly at the time indicated and each speaker has been allocated five minutes for questions from delegates. The first session, on the 16th July, will begin at 08.55am.

Delegates with any questions or queries should address these to the staff at the Symposium registration desk in the conference foyer. Storage for luggage and cloakroom facilities are available on request.

Catering

Tea, coffee and other refreshments will be served in the conference foyer and in the Ban Zrinski room, where the posters are displayed. Lunch will be served in the Centrum room.

Safety

In the event of a fire or other emergency, please leave via the nearest emergency exit. Delegates should then go to the collection point, which you will be directed to when exiting the building. A check that everyone attending the Symposium is present will then be made.

Access to the wireless network

Search available networks and select either:

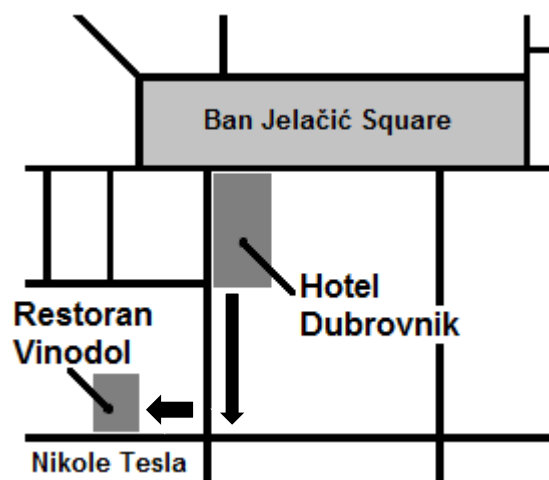
Wifi Hd Guest Password: **dubrovnik1929**

or **Wifi HD Kongres** Password: **HDUzg1929**

Drinks reception:

A drinks reception is being held from 7.30pm on the evening of the 16th July in central Zagreb at Restoran Vinodol. The restaurant is a short walk from the Hotel Dubrovnik at 10 Nikole Tesla. Drinks and canapés will be available at the event. Afterwards delegates are free to explore Zagreb.

There will be people around to act as guides to the venue if need be.



Information on Presentations:

Speakers

We request that all speakers ensure that they have loaded a copy of their presentation, which should be carried on a memory stick and formatted for use on Microsoft PowerPoint for PC, well in advance of the session in which they are to talk. As a guide, we would expect anyone talking in a session scheduled before lunch to have loaded their talk and checked it either the day before or as early as possible on the day of their talk.

Speakers should come to the front of the Ban Jelačić conference room where they can load copies of their talk and check that they are complete. Speakers should also inform staff at the Symposium registration desk once they have loaded their talk.

Access to the Ban Jelačić conference room is from 8.00am on the 16th July.

Posters

Posters will be displayed in the Ban Zrinski room, accessed from the conference foyer. We request that all posters should be in place before the start of the first session at 08.55am on the 16th July. They should be taken down no later than the end of the afternoon refreshment break on the 17th July.

Poster sessions

There will be two poster sessions, when authors will be available to answer questions about their posters. These will take place during the lunch breaks, and will start at 13.10 on both days of the Symposium. Delegates contributing posters are asked to be available by their poster during their allocated session, which can be found in the poster sessions programme.

Badges

Delegates with a special role to play in the Symposium have been allocated a coloured badge, as follows:

- Blue:** Organisers and Assistants
- Yellow:** Speakers and Session Chairs
- Pink:** Poster presenters

Acknowledgements:

We wish to thank **Jarvis Products** for their generous support towards the costs of holding this Symposium.

Timetable: Day one: 16th July 2015

08:00-08:55 Registration and poster set-up		
08:55	Dr Robert Hubrecht Humane Slaughter Association, UK	Welcome and Introduction
09:05-10:45 Session 1 Chair: Peter Jinman, FAWC, UK		
09:05	HRH Princess Alia Al Hussein Princess Alia Foundation, Jordan	Islam and animal welfare – a pathway to more humane slaughter practices
09:45	Malcolm Mitchell SRUC, UK	The effects of journey time upon the welfare of pigs in transit: A study under commercial transport conditions
10:05	Karen von Holleben bsi Schwarzenbek, Germany	Evaluation of cattle head fixation for captive bolt stunning under practical conditions – How tight and how fast?
10:25	Suzanne Millman Iowa State University, USA	Assessment of aversion to CO ₂ by weaned pigs and neonatal goats
10:45-11:10 Break		
11:10-12:40 Session 2 Chair: Dr Antonio Verlarde, IRTA, Spain		
11:10	Dr Denis Simonin Animal Welfare Unit, European Commission	The European Commission's work to improve food animal welfare at slaughter
11:40	Steve Wotton University of Bristol, UK	EC Regulation 1099/2009: Stunning current on cardiac arrest in Halal sheep
12:00	Pia Brandt Danish Meat Research Institute, Denmark	Documentation of welfare of finishing pigs on the day of slaughter
12:20	Rebeca Garcia DEFRA, United Kingdom	Evidence-based policy on welfare at slaughter – Latest regulatory changes, gaps and advances
12:40-14:00 Lunch, including poster session from 13:10		
14:00-15:30 Session 3 Chair: Prof Yvonne Vizzier Thaxton, University of Arkansas, USA		
14:00	Dr Mara Miele Cardiff University, UK	Making slaughter of livestock acceptable to the consumer: How science, technology and religion affect the public debate about slaughtering practices
14:30	Georgina Limon Royal Veterinary College, UK	Pathophysiology of captive-bolt stunning in alpacas (<i>Vicugna pacos</i>)
14:50	Charlotte Berg Swedish University of Agricultural Sciences, Sweden	Animal welfare at slaughter – A social learning process
15:10	Simon Parotat bsi Schwarzenbek, Germany	Pig slaughter: Detecting signs of life prior to scalding by means of optical flow
15:30-16:10 Break		
16:10-17:30 Session 4 Chair: Dr Mario Ostović, University of Zagreb, Croatia		
16:10	Antoni Dalmau IRTA, Spain	Use of carbon dioxide to stun rabbits
16:30	Vasco Antunes European Commission Food and Veterinary Office, Ireland	Outcome of audits of EU Member States on animal welfare controls at slaughter
16:50	Phil Hadley EBLEX AHDB, UK	A comparison of handling methods relevant to the religious slaughter of sheep
17:10	Miroslav Radeski Ss. Cyril and Methodius University of Skopje, Macedonia	Absence of stress in sheep while witnessing the slaughtering process
19:00-21:00 Drinks Reception at Restoran Vinodol		

Timetable: Day two: 17th July 2015

09:00-10:20 Session 5 Chair: Prof Charlotte Berg, Swedish University of Agricultural Sciences, Sweden		
09:00	Antonio Velarde IRTA, Spain	Electrical stunning effectiveness with current levels lower than 1A in lambs and kid goats
09:20	Claudia Meier bsi Schwarzenbek, Germany	Evaluation of the Meyn multistage CO2 stunning system for chicken with regard to animal welfare under practical conditions
09:40	Hans van de Vis IMARES, The Netherlands	An approach to implement stunning and killing of fish
10:00	Käthe Kittelsen Norwegian Meat and Poultry Research Centre, Norway	Wing fractures in broilers, observed at two Norwegian abattoirs

10:20-11:00 Break

11:00-12:30 Session 6 Chair: Dr Martin von Wenzlawowicz, bsi Schwarzenbek, Germany		
11:00	Tozie Zokufa Program Manager for Africa, Humane Society International and Chairman, PAAWA, South Africa	Humane slaughter: Is Africa there yet? Challenges and opportunities
11:30	Mhairi Sutherland Ruakara Research Centre, New Zealand	Evaluation of a non-penetrating captive bolt to euthanase neonatal goat kids
11:50	Anthony Akunzule Veterinary Services Directorate, Ghana	Review of the transportation system affecting animal welfare during transport of live animal to slaughterhouses in Ghana
12:10	Sophie Atkinson Swedish University of Agricultural Sciences, Sweden	A study of aversion and stun quality in pigs stunned in a gas mixture of 80% N2 and 20% CO2 compared to 90% CO2 during commercial slaughter

12:30-12:40 Presentation of the HSA Award 2015

12:30-14:00 Lunch, including poster session from 13:10

14:00-15:30 Session 7 Chair: Dr Hans van de Vis, IMARES, The Netherlands		
14:00	Prof Yvonne Vizzier Thaxton University of Arkansas, USA	From idea to reality: The development of the Low Atmosphere Stunning System
14:30	Eloy Gonzales-Gustavson IVITA, Peru	An evaluation of the humanness of stunning and slaughter methods used in Guinea pigs (<i>Cavia porcellus</i>) for the Andean region
14:50	Alison Small CSIRO, Australia	DTS: Diathermic syncope for cattle stunning
15:10	Georgina Limon Royal Veterinary College, UK	Effect of neck cut position on time to collapse in Halal slaughtered cattle

15:30-16:10 Break

16:10-17:10 Session 8 Chair: Prof Malcolm Mitchell, SRUC, UK		
16:10	Jessica Martin SRUC, UK	Evaluation of electroencephalogram responses of chickens killed using three mechanical devices
16:30	Martin von Wenzlawowicz bsi Schwarzenbek, Germany	Risk factors for the use of a rifle for stunning/killing of cattle
16:50	Merel Verhoeven Wageningen University, The Netherlands	Validation of indicators used to assess unconsciousness in cattle at slaughter

17:10 End

Poster Session: Day one: 16th July 2015

13:10-13:50 Poster Session

Marc Cooper (RSPCA, UK) *Automated assessment of key welfare parameters at the time of killing to better understand on-farm conditions for broilers*

Maurizio Ferri (Italian Veterinary Service, Italy) *Monitoring of animal welfare at slaughter – study results of indicators' use at a bovine slaughterhouse*

Katrine Fogsgaard (University of Aarhus, Denmark) *Are sows sent for slaughter fit for transport?*

Marlene Kirchner (University of Copenhagen, Denmark) *How to assess fitness for transport of Danish broiler chickens*

John Lever (University of Huddersfield, UK) *Farm animal welfare and corporate social responsibility: Making slaughter visible?*

Nikki Mackie (University of Bristol, UK) *Behavioural responses of broiler chickens during Low Atmospheric Pressure Stunning*

Suzanne Millman (Iowa State University, USA) *An animal welfare assessment of swine marketed through buying stations in the United States*

Suzanne Millman (Iowa State University, USA) *Assessment of aversion to different concentrations of CO₂ gas by weaned pigs using an approach-avoidance paradigm*

Suzanne Millman (Iowa State University, USA) *Tolerance of carbon dioxide gas by neonatal goats*

Carla Molento (Federal University of Parana, Brazil) *Perceptions of fish welfare issues by Latin American citizens*

Simone Pauling (Marel Stork Poultry Processing, The Netherlands) *20 years of experience in carbon dioxide stunning of poultry: Proven scientific knowledge and additional insights*

Avraham Pinkas (Hai-Meshek – Israeli Society for the Prevention of Cruelty to Farm Animals, Israel) *Killing spent laying hens on farm, in 1 second*

Kristin Pufpaff (Islamic Food and Nutrition Council of America, USA) *Target areas for animal welfare improvement within a religious context*

Jessica Walsh (University of Guelph, Canada) *Evaluation of producer attitudes regarding on-farm euthanasia methods for commercial meat rabbits*

Hannah Westen (World Horse Welfare, UK) *Transport of equine animals for slaughter: New guidelines on watering and fitness for transport*

Poster Session: Day two: 17th July 2015

13:10-13:50 Poster Session

Hamid Ahmad (Formerly Pakistan Society of Food Scientists and Technologists, Pakistan) *Religious Halal slaughter of animals for food, Animal welfare, Meat science – Knowledge gaps*

Johannes Bergsma (Meyn Food Processing Technology, The Netherlands) *Improving animal welfare: Automated monitoring of foot pad lesions*

John Cranley (AWSELVA, UK) *Risks of sensibility type behaviour during slaughter with and without stunning in Britain*

Kirstin Dahl-Pedersen (Aarhus University, Denmark) *Study design and selection of relevant measures for assessment of fitness for transport of dairy cows*

Leonie Jacobs (ILVO, Belgium) *Effect of transport duration and broiler breeding age on day-old chick welfare and performance*

Helle Daugaard Larsen (DMRI, Denmark) *Video surveillance of CO₂-stunning of finishing pigs in groups*

Renata Leuschner (EFSA, Italy) *The EFSA approach to assessing proposals for new stunning methods*

Gustavo María (University of Zaragoza, Spain) *Effect of long term transportation on sheep productive traits, behaviour and welfare*

Gustavo María (University of Zaragoza, Spain) *Social perception of animal welfare in Argentina*

Luc Mirabito (Institut de l'Elevage, France) *Promoting and implementing high standards of animal welfare: An example in French cattle slaughterhouses*

Johanna Probst (Research Institute of Organic Agriculture, Switzerland) *Relationship between stress-related physiological exsanguination blood variables, vocalisation, and stressors at a conventional abattoir*

Jon Ratcliffe (Moulton College, UK) *Causes of livestock vehicle accidents in the UK and the consequences for the animals involved*

Fiona Roberts (Integra Food Secure, UK) *Observations on the understanding and implementation of EC Regulation 1099/2009: Analysis from farm, factory and hatchery audit of the global poultry supply chain for a major UK retailer*

Janet Talling (Animal and Plant Health Agency, UK) *Extended journey lengths (11 days) in high specification lorries does not further compromise pig welfare*

Wouter Veerkamp (Meyn Food Processing Technology, The Netherlands) *Improving animal welfare: CAS stunning before tilting*