



WPSA (UK Branch) ANNUAL MEETING

31st March- 1st April 2020

East Midlands Conference Centre, Nottingham

Monday 30th March 2020 Atrium

8:00 – 18:00 Registration

Tuesday 31st March 2020 Lecture theatre

9:00-10:00 **Hammond lecture (BSAS – WPSA delegates welcome to attend)**

Alison Van Eenennaam

The Challenges for Livestock Production: Balancing messages of metrics, measures and marketing of meat production

Tuesday 31st March 2020 Suite 2

10:30 OPENING WPSA ANNUAL MEETING

10:40-11:50 Session 1: Invited Speaker session: The future of meat, economic and consumer perspectives

Chair: Emily Burton

10:40 1 Peter Van Horne

Introduction of slower growing broilers in the market in the Netherlands

11:20 2 Tricia Parrot and Lauren Bell

Consumer perceptions of welfare in the UK Broiler industry : use of Rich Pictures to capture data

12 :00-12.15 Session 2: Short orals introductions to a selection of posters (3 min)

Chair: Sophie Lee

12:03	3	Effect of two rapeseed meals with and without exogenous phytase and / or xylanase on dietary phosphorus retention, excreta concentration of inositol and inositol phosphate isomers when fed to broiler chickens. T. Kendal, E. S. Watts, S. P. Rose, M. R. Bedford, V. Pirgozliev.
12:06	4	The effect of graded levels of myo-inositol on apparent ileal mineral digestibility and plasma mineral concentration of broiler chickens at day 21 of age. C. P. Arthur, S. C. Mansbridge, S. P. Rose, I. Kühn, V. Pirgozliev
12:09	5	Effect of probiotic and organic acids supplementation on growth performance and immune response of broiler chicks. I. Al-Homidan, T. A. Ebeid, M. E. Mostafa, O. K. Abou-Emera, R. Al-Jamaan, M. M. Fathi
12:12	6	Identifying which bones indicate skeletal integrity in laying hens. A. Kemp, E. Burton, D. Scholey

12:30-13:30 Lunch, EMCC.

**13:30-14:40 Session 3: Original communications (General) (14 mins)
Chair: Natasha Whenham**

13:30	7	Lack of genetic correlation between laying hen bone quality and egg production suggests egg number may not explain bone quality. I. Dunn, H. McCormack, R. Fleming, P. Wilson, B. Andersson, M. Schmutz
13:44	8	Manual cervical dislocation in poultry: is it a welfare concern? J. E. Martin, V. Sandilands, S. Brocklehurst, J. Sparrey, L. Baker, D. A. Sandercock, D. E. F. Mckeegan
13:58	9	The effect of diets varying in nutrient availability with and without the addition of phytase on broiler performance and bone strength parameters. C. C. Mulvenna, U. McCormack, J. McKillen, M. Bedford, E. Ball
14:12	10	Effect of the duration of the adjustment and collection periods on the estimate of dietary metabolisable energy and nutrient retention in broiler chicken when using indigestible marker in diet. H. Scott-Cook, S. P. Rose, V. Pirgozliev.
14:26	11	Infrared thermography provides an accurate assessment of feather condition in broiler chickens. B. Raine, J. E. Martin, M. itchell, A. Futro and R. D'eath
14:40	12	Selective egg quality traits of laying chickens fed natural and biodegradable egg yolk colouring raw materials. O. Oyedeki

**14:54-15:03 Session 4: Short oral introductions to a selection of poster presentations (3 min)
Chair: Steve Wilson**

14:54	13	The use of organic compounds to reduce Campylobacter growth in vitro and limit extra-intestinal spread within broiler chickens. A. R. Hillier, L. K. Williams, A.I. Wealleans, L. Thijs, T. S. Wilkinson, T. J. Humphrey
14:57	14	Developing a Scoring System for Keel Bone Damage in Egg-laying Hens Radiographs. J. Liang, I. Dunn, H. McCormack, P. Wilson, R. Fleming, M. Schmutz, B. Andersson, M. Maidin.

15:00 15 Dietary supplementation of green and black tea waste powder on growth performance and serum biochemical metabolites of heat-stressed broiler chicken. M. R. Chowdhury, J. Ahmed, M. M. H. Khan

15:06-16:00 Tea and poster viewing, TBC Authors in attendance

16:00-16:56 Session 5: Original communications (Nutrition) (14 mins)

Chair: Patrick Garland

16:00 16 Myo-Inositol concentration in chicken tissues is influenced by dietary myo-inositol and phytase. C. P. Arthur, S. C. Mansbridge, S. P. Rose, C. A. Brearley, H. Whitfield, I. Kühn, V. Pirgozliev.

16:14 17 Effects of threonine, arginine and glutamine supplementation on caecal microbiome profiles and litter characteristics of broilers exposed to reused litter. M. A. Hussein, F. Khattak, L. Vervelde, S. Athanasiadou, J. G. M. Houdijk

16:28 18 The effect of batch-to-batch variation and manufacturing plant on apparent amino acid digestibility of commercial rapeseed meal in broilers, with and without protease. E. S. Watts, S. P. Rose, A. M. Mackenzie, V. R. Pirgozliev

16:42 19 Influence of combined cow and camel rumen content on some haematological and serum biochemical indices of finisher broiler chickens. F.O. Obadire

Suite 2

17:15 RF GORDON MEMORIAL LECTURE

Professor Christine Nicol

Wither hen welfare?

18:15 RF Gordon Memorial Reception – EMCC Atrium

20:00 WPSA ANNUAL DINNER – Lecture theatre, EMCC

Wednesday 1st April 2020 **Suite 2**

9:00-10:20 Joint WPSA/BSAS Industry Session. The future of the poultry meat industry

Chair: Helen Masey O Neill

9:00 20 Francesca Soglia
Opportunities and Challenges for added-value chicken meat

9:40 21 Isabelle Gangnat
Opportunities for higher value meats, specifically chicken

10:20 22 James Bentley
Slow(er) growing breeds and the future of the poultry industry

10:45-11:15 Tea and poster viewing, location TBC. Authors in attendance

Suite 2

11:10–11:52 Session 4: Original Communications (General) (14 min)

Chair: **Laura Beeson**

- 11:10 23 Does inclusion of faba bean in starter diets allow for greater use of faba beans in grower and finisher diets for broilers? J. G. M. Houdijk
- 11:24 24 What is 'normal'? Morphology and mineralisation of tibias from healthy, on farm broilers. A. Alkhtib, C. Sanni, E. Burton, D. Scholey
- 11:38 25 Sensitivity of broiler performance to reused litter exposure and amino acids supplementation. M. A. Hussein, F. Khattak, L. Vervelde, S. Athanasiadou, J. G. M. Houdijk

11:52-12:00 Presentation of president's prizes

12:10-12:45 WPSA AGM

Posters

- 26 Feeding sunflower meal as main protein source to broiler chickens. N. Karkelanov, S. Chobanova, K. Dimitrova, S. P. Rose, V. Pirgozliev
- 27 Feeding stevia (*Stevia rebaudiana*) leaves to broiler chickens at two different temperatures. V. Pirgozliev, S. Enchev, I. M. Whiting, S. P. Rose, K. Kljak, A. E. Johnson, F. Drijfhout, S. Orczewska-Dudek, A. Atanasov
- 28 Energy and nutrient utilisation and growth performance of chicken fed diets containing graded levels of supplementary sea buckthorn dried berries. V. Pirgozliev, T. Mihova, I. M. Whiting, S. P. Rose, K. Kljak, A. E. Johnson, F. Drijfhout, S. Orczewska-Dudek, A. Atanasov.
- 29 Does growing site affect the digestible energy of wheat cultivars? P. H. Gillespie, M. R. Azhar, S. P. Rose, V. Pirgozliev.
- 30 The effect of saturated and non-saturated fat on growth performance, dietary apparent metabolisable energy and nutrient retention when fed to broiler chickens at two different temperatures. S. Woods, I. M. Whiting, S. P. Rose, V. Pirgozliev
- 31 Lower non-starch polysaccharides content in sunflower meal gives improved feeding value for broilers. N. Karkelanov, S. Chobanova, K. Dimitrova, I. M. Whiting, S. P. Rose, V. Pirgozliev.
- 32 Xanthophyll and beta carotene contents of differently processed natural, biodegradable raw materials to be used as potential egg yolk colourants in layer chickens diets. O. O. Oyedeji, O. O. Oluwatosin, A. V. Jegede, A. O. Fafolu, V. Pirgozliev, O. Folorunso
- 33 Feeding a combination of xylanase and arabino-xylo-oligosachharides to young broiler chickens. A. Simic, G. Gonzalez-Ortiz, S. C. Mansbridge, S. P. Rose, M. R. Bedford, V. Pirgozliev

- 34 The impact of dietary mixture of xylanase and xylo-oligosaccharides on energy availability and caecal fermentation when fed to broilers. K. Dimitrova, G. Gonzalez-Ortiz, S. C. Mansbridge, S. P. Rose, M. R. Bedford, V. Pirgozliev.
- 35 Susceptibility of different wheat varieties to enzymatic hydrolysis. I. Whiting, V. Pirgozliev, M. R. Bedford.
- 36 Determination of optimum post-mortem blood sampling and storage methods for blood antioxidative capacity testing in broilers. K. Wilshaw, A. Desbruslais, D. Scholey, E. Burton.
- 37 Determining the effects of housing system on skeletal integrity at both early and mid-lay. M. Wilson, E. Burton, D. Scholey, A. Kemp
- 38 Energy metabolisability and ileal digesta viscosity of growing turkeys fed diets containing malted sorghum sprouts supplemented with enzyme or yeast. O. Oluwakemi
- 39 Developing a model to test the efficacy of alternatives to antibiotics in broiler diets. E. Ball