



World's Poultry Science Association (UK Branch)

Annual Meeting

13-14 April 2010

Provisional Programme and Application Form

The Canada Room

Queen's University, Belfast

Please **READ** these notes before completing application form

APPLICATIONS One per delegate please. Application form, accompanied by the appropriate payment to be sent to the BSAS Office. A confirmation including receipt will be issued to all delegates.

CONFERENCE FEE The WPSA Conference registration fee includes the WPSA Proceedings and attendance at all WPSA sessions including the joint WPSA/BSAS Session. Application forms for the discounted rate must be received by 28 February. All authors must register by 22 February. Failure to register by this date may result in the abstract being withdrawn from the programme and not being published in the proceedings.

Students A special low rate conference fee is offered to WPSA Students only.

BSAS Conference If WPSA delegates wish to attend the BSAS Conference on Monday, including particular sessions on Tuesday or Wednesday outwith the WPSA Conference, then they may do so by registering as a one day BSAS delegate. Please note that both BSAS and WPSA delegates are invited to attend the joint session on Tuesday.

WPSA delegates are invited to attend the BSAS Hammond Memorial Lecture in the Whitla Hall at 08:45 hours on Tuesday 13 April and BSAS delegates are invited to attend the WPSA Gordon Memorial Lecture at 17:15 hours on Tuesday in the Canada Room.

ACCOMMODATION We have negotiated some good B&B deals with quality 3* and 4* hotels, but rooms are limited so our prices will only hold until end of February 2010. Please book direct with the hotel, quote 'animal science' to get this special rate, single occupancy, per person per night.

University area, 5-10 minutes walk

Wellington Park <http://www.wellingtonparkhotel.com> £65
Express by Holiday Inn <http://www.exhi-belfast.com> £59
Ibis (University Street) <http://www.ibishotel.com> £55

In town, 10-15 minutes walk

Park Inn <http://www.belfast.parkinn.co.uk> £55
Days Inn <http://www.daysinn.com> £59

Good Budget Accommodation For students and the budget minded, there are standard rooms at Stranmillis College (about 20 minutes walk from Queen's University, bus 8A every 15 minutes, takes 5 minutes) for just £29 B&B! These must be booked through BSAS - via the WPSA application form.

MEALS The WPSA Conference Dinner and lunch are booked separately as indicated on the application form. *Please inform us if you require vegetarian or other specialised meal.*

TUESDAY EVENING

WPSA Conference Dinner is in the Great Hall, Queen's University at 20:00 hours. The cost of the dinner is £37 as indicated on the application form.

After the WPSA Conference Dinner, delegates are welcome to join the BSAS delegates on Tuesday evening in the The Space, Students Union, Queen's University.

MONDAY EVENING

BSAS Conference Dinner WPSA delegates are welcome to join BSAS on Monday evening at the Conference Dinner at the City Hall. Cost of the dinner is £45 as indicated on the application form.

PAYMENT We accept payment using the following credit cards: Visa (credit and debit), Mastercard and Switch or you may prefer to pay by cheque, made payable to **BSAS**. Electron and Maestro cards are not accepted. Please make your payment in £ sterling.

CANCELLATION 30 days prior to the conference: 75% refund. Within 30 days of the conference: No refund
BSAS will not be held responsible for any reason outside their control should the conference not be able to commence or curtailed early.

LOSS or DAMAGE WPSA will not be held responsible for any loss or damage of personal items of the delegates, accompanying persons, or exhibitors or injury at Queen's University.

CARPARKING Car parking is limited.

WIFI ACCESS Wifi will be available on site and is included in the registration fee.

WPSA SUBSCRIPTION Non - WPSA members may join WPSA (UK Branch), as indicated on the application form and therefore take advantage of the reduced conference fee rate.

We look forward to welcoming you at Queen's University
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Tel: +44 (0)131 445 4508 Fax: +44 (0)131 535 3103
Email: bsas@sac.ac.uk <http://www.bsas.org.uk>

For further information visit
<http://www.wpsa-uk.com/>

WPSA (UK Branch) ANNUAL MEETING

13th/14th April 2010

Canada Room, Queen's University
Belfast

Tuesday 13th April 2010

Whitla Hall

08:45 **Hammond Memorial Lecture.** *Chairman Dr Sinclair Mayne*
Animal Science – recent progress and future challenges
Prof John Oldham

10.20 **OPENING WPSA ANNUAL MEETING**

Nutrition: Original communications *Chairman Aaron Cowieson*

10.30 Effects of different levels of zinc sulphate and copper sulphate on immune system of male broiler chicks 76 Sajedah Hosseini, Javad Arshami

10.45 The effects of dietary trypsin inhibitor content on digesta viscosity and excreta moisture content in broilers 433 E Clarke, J Wiseman

11:00 Effects of different inclusion levels of an emulsifier on performance of broiler chickens 93 S. N. Mousavi, H. Mohammadi, F. Foroudi, M. Mostashari, M. Mohiti Asli

11:15 Crude protein and amino acid digestibility of 13 varieties of UK-grown peas and beans for broilers 339 HV Masey O'Neill, M Rademacher, J Wiseman

11:30 Multi-carbohydrase and phytase supplementation improves growth performance and liver insulin receptors sensitivity in chickens fed diets containing full-fat rapeseed 346 Damian Józefiak, Anna Ptak, Sebastian Kaczmarek, Pawel Mackowiak, Bogdan Slominski

Behaviour and welfare : Original communications *Chairman Paul Hocking*

11:45 Influence of access to aerial perches on welfare indicators in free-range laying hens 128 C.J. Nicholson, NE O'Connell

12:00 The effect of water resource type on measures of duck (*Anas platyrhynchos*) health and other aspects of welfare 162 K O'Driscoll, DM Broom

12:15 Too hungry to learn? Hungry broiler breeders fail to learn a food quantity T-maze discrimination task 242 L A Buckley, L M McMillan, V S Sandilands, B J Tolcamp, P M Hocking, R B D'Eath

12:30 Lunch

- 13:45 **Joint WPSA/BSAS Session:**
‘Progress and potential from animal breeding’
Chairman: Dr Seamus Hanrahan
- 13:45 Dr Donagh Berry, Teagasc ‘Quantitative and molecular genetics : a love story’
- 14:15 Dr Gerard Albers, Hendrix Genetics ‘Genomic selection in poultry and pig breeding – a breakthrough technology?’
- 14:45 Increase in accuracy using multi-trait genomic breeding value estimation
M P L Calus, R.F. Veerkamp
- 15:00 Tea
- 15:30 **Meat quality and eggs : Original communications** *Chairman*
- 15:30 The effect of glycerol and wheat pollard inclusion on drip loss, cooking loss, shear force tenderness and ultimate pH of broiler breast meat 40 L.A Griffiths, MEE McCann, B Moss
- 15:45 Effect of intensive vs. free range production on the fat and fatty acid composition of whole birds and edible portions of UK retail chickens 295 D I Givens, R A Gibbs, R Brown
- 16:00 Increased water usage during processing does not improve safety of poultry products 184 D P Smith
- 16:15 A study of water bath stunning of poultry and the consequences for animal welfare and meat quality 496 VA Hindle, MA Gerritzen, E Lambooi
- 16:30 Vitamin D and calcium concentrations in eggs from commercial laying hen husbandry systems 348 HM Hobbs-Chell, N Stickland, CM Wathes
- 16:45 Effects of reducing dietary protein with constant digestible sulfur amino acids and threonine to lysine ratio on laying hen performance and egg quality 417 Seyed Naser Mousavi, Abdollah Ghasemi Jirdehi, Farhad Foroudi

GORDON MEMORIAL LECTURE

- 17:15 Prof. Eddy Decuypere, *Catholic University of Leuven*. ‘The broiler breeder paradox from a physiological, genetic and ethical viewpoint together with suggestions for solutions’
- 18:15 Gordon Memorial Reception – Naughton Gallery, Queen’s University
- 20:00 **WPSA ANNUAL DINNER** - The Great Hall, Queen’s University

Wednesday 1 April 2009

08:30 **WPSA (UK Branch) AGM**

09:00 **Nutrition : Original Communications** *Chairman*

09:00 Influence of whole wheat inclusion and essential oils supplementation on the performance, nutrient utilisation and digestive tract development of broilers 281 A M Amerah, A Peron, E L R Salmon, F Zaefarian, V Ravindran

09:15 Effect of supplementation of a corn-cowpea-soybean meal diet with microbial phytase on phosphorus utilization, tibia bone-ash and performance in broilers 53 E A Iyayi, P C Aguihe

09:30 The importance of tannic acid/ polyethylene glycol ratio on the absorption capacity of chicken intestine for D-xylose 469 B Mansoori, M Modirsanei

Short oral introductions to a selection of the poster presentations *Chairman:*

09:45 Approximately 15 posters at 3 minute intervals. *Chairman: Kelvin McCracken*

10:30 **Coffee and Poster viewing. Authors in attendance**

11:15 **Industry session** *Chairman: Patrick Garland*

11:15 Dr Tom Scott, Provimi 'Considerations on how to overcome the limitations on maintaining the growth advantages of early broiler nutrition to market age'

11:45 Mr Steve Lister, Crowshall Veterinary Practice 'Poultry diseases: their control and effects on nutritional requirements'

12:15 **Original Communications: Genetics etc** *Chairman Nick Sparks*

12:15 Using gene expression profiling to identify gene candidates in ovarian follicular development of broiler breeders 123 N A McDerment, P W Wilson, D Waddington, I C Dunn, P M Hocking

12:30 Characterising polymorphism in AADAT – a key metabolic enzyme that affects growth in chickens 194 A Tolkamp, P W Wilson, P M Hockong, D-J Dekoning, I C Dunn

12:45 Simple additive weighting as a tool for decision making in poultry research 213 S A Hosseini, M Mohiti-Asli, H Lotfollahian, M Babaie, S J Hosseini, A R Aghashahi, A Mahdavi

13:00 **Presentation of President's prizes**

Close of meeting

Poster Presentations

Presentations displayed in the Poster area from 10am 13th April to 11.15 am 14th April.

1. The effects of Zinc Sulphate on egg production and egg shell quality in laying hens drinking saline water 8 Z Mirabdolbaghi, A Mahdavi, A Hosseini, F Alemi, H Lotfolahian, M Kolanie
2. Effects of high zinc salts supplementation on Zn residue in tibia bone, liver, excreta and egg shell of laying hens 261 O M O Idowu, A O Fafiolu, A O Oso, O O Oduguwa
3. The effects of ascorbic acid on egg production and egg shell quality in laying hens drinking saline water 10 Z Mirabdolbaghi, A Mahdavi, A Hosseini, F Alemi, H Lotfolahian, M Kolanie
4. Egg shell calcite crystal size has strong genetic determination in laying hens 181 M Bain, A Rodriguez-Navarro, K McDade, M Schmutz, R Preisinger, D Waddington, I Dunn
5. Effect of different levels of methionine on performance and immune response in native Iranian hens 33 Alireza Hesabinameghi
6. Modelling of physical properties of quail eggs 457 Mahmood Mahmoodi, Mohammad Kordi Yazdi, Fateme Noroozi, Ali Mousavizadeh
7. Effect of egg size on hatchability and performance of hatchlings 214 Kazem Yousefi Kalarikalaie, Hossein Yousefi Kalarikalaie, Ali Naghi Eghbalian, Hamid Shojaie, Maziar Mohiti-Asli, Seyed Abdullah Hosseini
8. Effect of sodium bentonite containing ferric oxide for treatment of cottonseed meal on egg quality 482 Ali Gilani, Hassan Kermanshahi, Abolghasem Golian, Abdolmansour Tahmasbi
9. An investigation to determine the energy value of glycerol when incorporated into broiler diets containing cereal by-products 41 L A Griffiths, MEE McCann
10. The relationship between protein solubility in potassium hydroxide of full fat soyabean meal and broiler performance and nutrient metabolisability 42 MEE McCann, B Owens, H Hayes, S Smyth
11. Studies on the effect of turmeric rhizome powder on broiler performance and energy utilisation 43 J George, M E E McCann
12. Efficiency of utilization of metabolisable energy for carcass energy retention in broiler chickens fed wheat and maize based diets 89 H Hamandi, V Pirgozliev, S P Rose
13. Can the occurrence of ascites syndrome be reduced by the combined effects of betaine and reduced dietary salt in broiler chickens? 182 M Asemani, M Shivazad, H Lotfollahian, F Foroudi
14. Effect of yeast and enzyme supplementation on energy metabolisability by broiler chickens fed diets containing malted sorghum sprouts and wheat bran 110 F O Oke, O O Oduguwa, A O Fafiolu, A V Jegede, O M O Idowu, K-H Südekum
15. Energy metabolisability by broiler chickens fed enzyme supplemented maize- wheat bran based diets 114 C C N Ezennabike, O O Oduguwa, A V Jegede, A O Fafiolu, O M O Idowu, K-H Südekum

16. How much methionine could be replaced by betaine to improve carcass characteristics of broiler chickens without reducing growth rate? 127 Seyed Abdollah Hosseini, Maziar Mohiti-Asli, Houshang Lotfollahian, Ali Mahdavi
17. Effects of water temperature and alcohol on performance of broiler chickens in a hot climate 138 H K Dei, A Mohammed
18. Effects of divercin on gastrointestinal microflora and performance of broilers 146 D Józefiak, S Kaczmarek, A Rutkowski, Anna Sip
19. The comparison of dietary supplementation of cumin seed and cumin seed meal with prebiotic on blood metabolites and performance of broiler chickens 147 Abolghasem Golian, Mohammad Azghadi, Mohammad Sedghi
20. The influence of dietary supplementation of licorice extract and prebiotic on fat digestibility, blood metabolites and performance of broiler chickens fed diets low in digestible amino acids 149 Mohammad Sedghi, Abolghasem Golian, Hasan Kermanshahi, Mohammad Reza Nasiri, Mohammad Azghadi
21. Relationship of chemical composition and metabolisable energy of triticale for poultry 151 Heydar Zarghi, Abolghasem Golian, Hasan Kermanshahi
22. Estimating the true metabolisable energy values of wheat screenings collected from different Persian varieties 155 Mozghan Mazhari, Abolghasem Golian, Hasan Kermanshahi
23. Effects of diet dilution and enzyme supplementation on growth performance and feed:gain cost of broiler chicks 34 Hosna Hajati, Mansour Rezaei, Hadi Sayyahzadeh
24. Digestible lysine requirement of male and female broiler chicks during the period three to five weeks post hatching 26 F Alemi, A Mahdavi, M Shivazad, M Zaghari, H Moravej, A Hosseini, J Mirabdolbaghi, H Lotfolahiyan
25. Improvement in the use of undecorticated sunflower seed meal diets with multi-enzyme mixture by growing pullets 268 A O Fafiolu, O O Oduguwa, A V Jegede, O M O Idowu, A O Oso, R A Sobayo
26. Phosphorus and nitrogen excretion in broilers fed phytase supplemented rice husk and a maize/soyabean diet without phytase 373 Ofongo S.T., Kehraus S., Iyayi E.A., Südekum K. H.
27. Apparent digestibility of crude protein and fat and digesta viscosity in broilers fed fungal biodegraded rice husk-based diets 371 S T Ofongo, S Kehraus, E A Iyayi, K H Südekum
28. The effect of glycerol inclusion in broiler diets on amino acid digestibility 258 L Griffiths, M E E McCann

29. Effects of enzyme supplementation to diets containing wheat and canola meal on intestinal morphology and performance of broiler chicks 390 Golestane Golestani, Seyed Davood Sharifi, Akbar Yaghobfar, Ali Akbar Khadem
30. The effects of acute heat stress on body temperature and gene expression in broiler chickens 396 I Zahoor, D J de Koning, P M Hocking
31. The effects of processed and unprocessed high and low swelling bentonite on broilers performance 398 Mahdi Amani, Seyed Davod Sharifi, Ali Reza Aghashahi
32. Effects of supplementing zinc in corn-wheat-soybean meal diet on the tissue mineral status and carcass traits of broiler chicken 515 H M Salim, H R Lee, C Jo, S K Lee, B D Lee
33. Evaluation of isolated Lactobacilli from the gastrointestinal tract of broiler chickens toward their use as probiotic 383 Reza Majidzadeh Heravi, Hassan kermanshahi, Abdolreza Varasteh, Mojtaba Sankian, Alireza Heravi Mousavi
34. Effects of combination of citric acid and microbial phytase on the serum concentration and digestibility of some minerals in broiler chicks 414 Yahya Ebrahim Nezhad, Abolfazl Agajanzadeh Golshani, Akbar Darvishi
35. Fat content and fatty acid composition of chicken meat portions and manufactured chicken products 294 RA Gibbs, C Rymer, DI Givens
36. Fatty acid profile and oxidative stability of broiler meat: Influence of different degree of unsaturated fatty acids and α -tocopherol acetate supplementation 381 F M Khattak, J R Scaife
37. The effect of semen collection frequency on spermatozoa quality in chicken 69 S. Tabatabaei, M. Chaji, T. Mohammadabadi
38. The correlation between storage period of semen and spermatozoa quality in chicken 47 S Tabatabaei, M Chaji, T Mohammadabadi
39. Determination of the mtDNA D-loop sequence of Iranian native Marandi chicken 406 Mohammadi Pestebik, N Pirany, J Shodja, A Mohammadhashemi
40. Detection of a genetic loci for incubation behaviour in chickens 402 A Baheer, P W Wilson, R J Talbot, P J Sharp, A Law, D Windsor, C Haley, I C Dunn

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