<table>
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<tr>
<th>Day</th>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>Tuesday 5th Apr</td>
<td>12:30-17:30</td>
<td>BSAS student Tuesday – Promoting Yourself</td>
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<tr>
<td>Wednesday 6th Apr</td>
<td>10:10</td>
<td>OPENING WPSA ANNUAL MEETING</td>
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<td></td>
<td>10:20-11:20</td>
<td>Session 1: Original communications (14 mins) Nutrition</td>
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<td>Chair: Steve Wilson</td>
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<td></td>
<td>10:20</td>
<td>1 The effect of heat treatment and tannase addition on feeding value of field beans for broilers</td>
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<td>J M Abdulla, S P Rose, A M Mackenzie, V Pirgozliev</td>
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<td></td>
<td>10:34</td>
<td>2 Increasing doses of <em>Buttiauxella phytase</em> improve performance and nutrient digestibility in young turkeys</td>
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<td>A L Wealleans, L P Barnard, Y Dersjant-Li</td>
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<td>10:48</td>
<td>3 Nutritional programming as a tool for improving bone strength in broilers</td>
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<td>C Sanni, D Scholey, E Burton</td>
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<td>11:02</td>
<td>4 Rapeseed variety and processing influence the digestibility of crude protein and amino acids in rapeseed co-products fed to broiler chickens</td>
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<td>M M Kasprzak, J G M Houdijk, O A Olukosi, H Appleyard, S Kightley, P Carre, J Wiseman</td>
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<td>11:20-12:30</td>
<td>Session 2: Invited speakers session</td>
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<td>Chair: Vicky Sandilands</td>
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<td></td>
<td>11:20</td>
<td>5 Mike Toscano (University of Bern)</td>
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<td>Osteoporosis and keel bone fractures</td>
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<td>11:55</td>
<td>6 Peter Kettlewell (SRUC)</td>
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<td>Protecting poultry during transport: balancing, welfare and economics</td>
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<td>12:30-13:30</td>
<td>Lunch, White’s Dining Hall</td>
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| Time   | Session 3: Original communications (Genetics and welfare) (14 mins) and short oral introductions to a selection of the poster presentations (3mins)  
Chair: Paul Hocking |
|--------|----------------------------------------------------------------------------------------------------------------------------------|
| 13:30  | Identification of genetic markers for the improvement of bone strength in poultry  
H McCormack, I C Dunn, D J DeKoning, M Schmutz, R Preisinger                                           |
| 13:44  | Evaluation of genetic diversity of Saudi native chicken populations using microsatellite markers  
M Fathi, I Al-Homidan, M Motaweai                                                                 |
| 13:58  | Identifying and quantifying the recessive white (c) mutation in a Cream Legbar flock  
J G Morison, P W Wilson, I C Dunn, V Sandilands                                                            |
| 14:12  | A logical approach to understanding physiological mechanisms underpinning growth efficiency in broilers explained by a single selected genetic locus  
A Reid, P W Wilson, N Whenham, I C Dunn                                                                       |
| 14:26  | Effect of flock age on activity budgets of turkeys during commercial production  
J E Martin, M Farish, M A Mitchell                                                                                  |

**Short orals.**  
Chair: Natasha Whenham

| Time   | Use of a novel wheat cultivar with high phytase activity to support phosphorus digestibility in broilers  
D Scholey, N Morgan, C Sanni, H Brinch-Pedersen, G Dionisio, C Madsen, E Burton |
|--------|----------------------------------------------------------------------------------------------------------------------------------|
| 14:40  | Removal of soya bean meal from wheat- and maize-based diets decreased litter moisture and foot pad dermatitis in turkeys  
P M Hocking, T Veldkamp, L Vinco, P Woodward, A Harkness                                                                 |
| 14:43  | Effect of a *Buttiauxella* phytase on nutrient digestibility and performance in laying hens fed a diet without supplemental inorganic phosphorus  
E White, R Bold, A L Wealleans, Y Dersjant-Li, C Kwakernaak                                                                 |
| 14:46  | A preliminary assessment of the current state of resistance/susceptibility to the active compounds used in Acaricides for Poultry Red Mite, *Dermatobia ovinae*, in the United Kingdom.  
J A Atkinson, D R George, O A E Sparagano, R D Finn                                                                       |
| 14:52-16:00 | Tea and poster viewing, Small Hall. Authors in attendance |

**Binks 107**

| Time   | Session 4: Original communications; (Health and behaviour) 14 mins  
Chair: Malcolm Mitchell |
|--------|----------------------------------------------------------------------------------------------------------------------------------|
| 16:00  | A preliminary investigation into resting behaviour in feed restricted and *ad lib* fed female broiler breeders  
L M Dixon, V Sandilands, R B D’Eath                                                                 |

- 2 -
16:14  17  Gait in ducks and chickens - similarities in adaptation to high growth rate  
      B Duggan, D Clements, P Hocking

16:28  18  The welfare consequences of different foot pad scores in male turkey poults  
      P Hocking, A Harkness, T Veldkanp, L Vinco

17:15  RF GORDON MEMORIAL LECTURE  
      Michael Hess (University of Vienna)  
      Commensal or pathogen in chickens – a challenge to fulfil Koch’s postulates

18:15  RF Gordon Memorial Reception - Small Hall

20:00  WPSA ANNUAL DINNER – White’s Dining Hall

Thursday 7th April 2016  Molloy Hall

08:30-10:10  Hammond Lecture  
            Animal science for a sustainable future  
            M Herrero, CSIRO, Australia

10:00-10:30  Tea Coffee – Small Hall

Binks 107

10:30-11:50  Joint WPSA/BSAS Industry Session  
            Chair: Emily Burton

10:30  19  Kristof Mertens Porphyrio  
            Data driven smart farm management with Farm Intelligence solutions

11:15  20  Helen Massey O’Neill  
            Extending the value of the literature; holo analysis of agricultural data

11:50-12:20  WPSA AGM

12:20-12:56  Session 5: Original communications (Nutrition) (14mins)  
            Chair: Steven Pace

12:20  21  The effect of lowering dietary crude protein (CP) content on broiler performance  
            M E E Ball, J George

12:34  22  Gene expression of nutrient transporters and markers of liver anti-oxidants, gut level immune  
            response and cellular integrity in broilers fed diets containing regular or high doses of phytase  
            L Beeson, C Walk, P Hastie, M Bedford, O Olukosi

12:48  How Industry uses nutritional research data  
      S Wilson

13:00 - 13.10  Presentation of president’s prizes and close of meeting
Posters

23 Metabolisable energy and relative bioavailability of phosphorus in meals of two contrasting oilseed rape varieties subjected to different processing conditions
O A Olukosi, M Kasprazk, S Kightley, P Carre, J Wiseman, J G M Houdijk

24 Effect of Dietary Phytase and 1α-hydroxycholecalciferol on growth performance, mineral retention and leg health of broiler chickens
F Shariatmadari, H R Ibrahimi, H Ahmadi

25 Influence of probiotic inclusion and stocking density on body weight and bacterial count profile of broiler chicks
M Fathi, I Al-Homidan, B Al-Habob

26 Effect of storage temperature of UK grown field bean samples on their nutritive value for broilers
J M Abdulla, S P Rose, V Pirgozliev

27 A titration of yellow lupin (Lupinus luteus) inclusion in the diet of laying chickens (Gallus gallus domesticus)
S MacKintosh, M Lee, V Theobald, D Leemans, A Burgess, N Scollan

28 The effect of high levels of whole barley with enzyme supplementation on laying hen performance
R Badiefar, F Shariatmadari, H Ahmadi

29 The effect of wheat DDGS and xylanase on the quality of stored eggs over a four week period
L R Hood, I M Whiting, S P Rose, A M Mackenzie, A M Amerah, V Pirgozliev

30 Total tract nutrient utilisation, metabolisable energy and whole-body energetics in broilers receiving xylanase supplementation in wheat-based diets formulated using an assumed nutrient value for wheat
O A Olukosi, A D Craig, M Bedford

31 The effect of wheat moisture content at harvest on broiler performance
M E E Ball, J Sloss, A Catlett