



Programme

**Spa Complex
South Bay
Scarborough
UK**

British Society of Animal Science Annual Conference

31 March - 2 April 2008

*Including
Student Sunday/Monday Programme 30-31 March
Equine Day, Wednesday, 2 April*

STUDENT SUNDAY/MONDAY PROGRAMME 30-31 MARCH 2008

Spa Complex, Regency Room Sunday 30 March

Time Workshop 1

14:00 Registration

14:15 Basic statistics for animal science (Phil Garnsworthy)

15:00 Break

15:15 Communicating to farmers, industry and media (Jack Kennedy)

16:15 Break

16:30 How NOT to murder your supervisor.

17:15 Break

18:00 Relaxation techniques and student travel funding talks (Catherine Hale)

19:00 Dinner and social

Monday 31 March

Workshop 2

Nutrition for Beginners (Caroline Rymer)

09:00 Nutrition (Ruminants)

10:30 Coffee/Tea

11:00 Nutrition (Monogastrics)

Workshop 3

Genomics for Beginners (Chris Warkup)

Genomics

Genomics

Visit the student desk in the main hall for information on the advantages of being a member of the society. Join today.....

PROGRAMME

BRITISH SOCIETY OF ANIMAL SCIENCE, ANNUAL MEETING 31 March - 2 April 2008

ROOM			Spa Theatre 400 +	Promenade 200	Regency Room 120	Vita Dome 100/40	Main Hall
Sunday PM 30-Mar-08		14:00				Student Event	POSTERS
Monday AM 31 March 2008		09:00			Student Event	Student Event	BSAS Poster Session I 13:30 Monday - Tuesday 13:00 hour
	12:00	Registration opens					
Monday PM	13:30	Session 1	Qualitative Assessment of Animal Welfare: from theory to practice Ch: Dr Jonathan Guy	Pigs I Ch: Prof Jeff Wood	Rumen Transformation Ch: Dr Bob Mayes	Novel Methods for Measuring Meat Quality Ch: Dr Bruce Moss	Welfare Dairy Beef and Sheep Meat Genetics and Genomics
	15:00	Tea/coffee and poster viewing					
	15:30	Session 2	Cattle (Behaviour/Health/Welfare) Ch: Dr Marie Haskell	Sheep Breeding Ch: Dr Seamus Hanrahan	Ruminant Nutrition/ Feed Improvements Ch: Dr Mike Lee	Meat Quality Ch: Dr Ian Richardson	
	17:00	Refreshment break					
	17:15	Session 3	The Value of Animal Science Ch: Prof Geoff Simm				
	19:30	Poster viewing Wine Reception, Main Hall					
	20:00	Conference Dinner, Ocean Room - Spa Complex					
Tuesday AM 1 April 2008	09:00	Session 4	09:00 - 10:00 Hammond Lecture - Mike Goddard				
	10:00	Coffee/tea and poster viewing					
	10:30	Session 5	Livestock and Global Climate Change Ch: Prof Geoff Simm (invited and submitted)	WPSA Programme Session 1	Pigs Nutrition/Management Ch: Dr Pinder Gill	Dairy Cow Nutrition I Ch: Dr Chris Reynolds	BSAS Poster Session II 13:30 Tuesday - Wednesday 12:00
Tuesday PM	12:30	Lunch					
	13:30	Session 6	WPSA/BSAS Impact of Biofuels on Livestock Production Ch: Steve Wilson	Harnessing Genomic Information Ch: Dr Eileen Wall	Health Ch: Dr Spiridoula Athanasiadou	Dairy Cow Nutrition II Ch: Dr Liam Sinclair	Feedstuffs and Techniques Pig Feed Poultry Free Communications
	15:30	Tea/coffee and poster viewing					
	16:00	Session 7	Impact of Biofuels on Livestock Production Ch: Dr John Newbold	WPSA/BSAS Poultry Ch: Dr Nick Sparks	Genetics of Fitness Traits Ch: Prof Steve Bishop		
	18:00	BSAS AGM					
	19:30	Poster viewing Wine Reception					
	20:00	Buffet					
Wednesday AM 2 April 2008	08:30	Session 8	Sheep and Dairy Cattle Nutrition Ch: Dr Ryan Law	WPSA AGM Session 2	Knowledge Transfer Workshop Ch: Dr Alistair Carson	Non Traditional Species Ch: Dr Jennie Litten-Brown	
	10:00	Tea/coffee					
		Session 9	Equine Nutrition (invited + submitted) Ch: Dr Jimmy Hyslop	WPSA Industry Session Session 3	Knowledge Transfer Workshop (continued)	Dairy Cow Management Ch: Jenny Bell	
	12:30	Close of Meeting (except for Audience with Equine Colleges which runs from 13:30 - 16:00) Denotes invited session					

Theatre Sessions

Monday, 31 March 2008

12:00 Registration (Snack cash bar open for sandwiches, light lunch)

Spa Theatre

QUALITATIVE ASSESSEMENT OF ANIMAL WELFARE: FROM THEORY TO PRACTICE

Session 13:30 - 15:00 hours

Chair: Dr Jonathan Guy

- 13:30 QA1 Qualitative Behaviour Assessment (QBA): a novel method for assessing animal experience
Wemelsfelder F, SAC, UK
- 14:00 QA2 Using Qualitative Behavioural Assessment (QBA) to measure welfare outcomes for farm assurance.
Peebles K, Quality Meat Scotland, UK
- 14:30 Discussion
- 15:00 Tea Break

CATTLE (BEHAVIOUR/HEALTH/WELFARE)

Session 15:30 - 16:55 hours

Chair: Dr Marie Haskell

- 15:30 1 Early detection of health disorders in dairy cows based on changes in feeding behaviour
Gonzalez L. A., Tolkamp B. J., Coffey M. P., Ferret A., Kyriazakis I.
- 15:45 2 Relationship between lameness and lying behaviour of zero-grazed Holstein dairy cattle recorded using an activity monitor
Blackie N, Bleach E.C.L., Amory J.R., Scaife J.R.
- 16:00 3 Influence of post-calving regrouping strategy on the behaviour and performance of dairy heifers
O'Connell N.E., Wicks H.C.F., Carson A.F., McCoy M.A.
- 16:05 4 There is no evidence of impairment of reproductive function of dairy cows on spring pasture during mating in New Zealand (NZ) *Madibela O. R., Sykes A. R., Nicol A. M., Logan C. M.*
- 16:10 5 Relationship between knowledge factors and lameness levels on dairy farms in Northern Ireland
Baird L. G., O'Connell N. E., Logue D. N., Carson A. F., McCoy M. A.
- 16:25 6 The impact of claw horn lesions and digital dermatitis on dairy cows' performance
Bell M J
- 16:30 7 The puncture force of hoof horn from New Zealand Friesian and Jersey Cross Friesian dairy cattle breeds *Lethbridge L. A., Margerison J. K.*
- 16:45 8 Production responses to temperature and humidity index in lactating dairy cows
Naserian A.A., Valizadeh R., Saremi B.
- 16:50 9 Culling reasons relationship with milk yield, type and parity of Iranian Holstein cows
Mohammadi-Kordiani H., Saremi B., Rahimi A.

THE VALUE OF ANIMAL SCIENCE

Session 17:15- 18:45

Chair: Professor Geoff Simm

- 17:15 VAS1 The value of research on animal welfare
Pritchard D G, Defra, UK
- 17:45 VAS2 The value of research at the animal /environment interface
Dewhurst R J, Lincoln University, New Zealand, N D Scollan & M K Theodorou, IGER. UK
- 18:15 VAS3 The value of research on genetic improvement
Amer P R, AbacusBio Ltd, New Zealand

19:30 Poster Viewing and Wine Reception - Main Hall

20:00 Conference Dinner - Ocean Room

Theatre Sessions

Monday, 31 March 2008

Promenade

PIGS I

Session 13:30-15:10

Chair: Professor Jeff Wood

- | | | |
|-------|----|---|
| 13:30 | 10 | Agewean – The effect of weaning age on growing pig health and performance in the absence of antibiotic growth promoters
<i>Edge H, Breuer K, Hillman K, Morgan C, Stewart A, Strachan D, Taylor L, Theobald C, Edwards S A</i> |
| 13:45 | 11 | The influence of genetics and environment on indicators of piglet pre-weaning survival
<i>Baxter E, Jarvis S, Sherwood L, Farish M, Robson S, Smurthwaite K, Roehe R, Edwards S A</i> |
| 14:00 | 12 | The relationship between the behaviour of sows and their histories of piglet crushing
<i>Ovink F, Amory J</i> |
| 14:15 | 13 | Influence of management factors during the post weaning period on the performance and behaviour of pigs
<i>O'Connell N.E., Beattie V.E.</i> |
| 14:30 | 14 | The effect of group size and floor-space allowance on the efficiency of lysine utilisation by growing pigs
<i>Theeruth B, Gous R</i> |
| 14:45 | 15 | The effect of drinker design and position on water usage and performance of growing pigs
<i>Magowan E., McCann M.E.E.</i> |
| 14:50 | 16 | Outdoor rearing and zinc oxide alter immune status in the newly weaned pig
<i>Carroll S M, Miller H M</i> |
| 14:55 | 17 | Effect of diet, gender and growth rate on pig meat quality
<i>Magowan E., Moss B.W., McCann M.E.E.</i> |
| 15:00 | 18 | Utilization of cassava (<i>Manihot esculenta</i>) peel-based diet supplemented with or without Farmazyme ® 3000 Proenx by growing pigs
<i>Adeshihinwa A O K, Obi O O, Makanjulola B, Afolabi O</i> |
| 15:05 | 19 | Development of a Terminal Restriction Fragment Length Polymorphism Analysis Protocol for comparing bacterial populations in the porcine gut
<i>Brunton L. A., McDowall K. J., Knapp J. S., Miller H. M.</i> |
| 15:10 | | Tea Break |

Theatre Sessions Monday, 31 March 2008

Promenade

SHEEP BREEDING

Session 15:30 - 17:15

Chair: Dr Seamus Hanrahan

- 15:30 20 Genetic parameters of carcass joint weights estimated from Video Image Analysis measurements
Rius Vilarrasa E., Bunger L., Brotherstone S., Matthews K. R., Haresign W., Davies M., Roehe R.
- 15:45 21 Improving the measurement precision of carcass traits and muscularity in hill breeds using Computer Tomography - impact on maternal performance and lamb survival
Conington J, Lambe N, Amer P, Bishop S C, McLean K, Simm G, Bünger L
- 16:00 22 Crossbred versus purebred ewe genotypes for the hill sheep sector: effects on finishing lamb performance
Annett R, Carson A, Dawson L, Irwin D
- 16:15 23 Bayesian segregation analysis of faecal egg count data simulated from a stochastic genetic epidemiological model of gastrointestinal nematode infections in sheep
Nath M, Pong-wong R, Woolliams J.W., Bishop S.C
- 16:30 24 Prediction of prion protein genotypes and study of association with lamb performance traits of Suffolk sheep
Sawalha RM, Villanueva B, Brotherstone S, Lewis RM
- 16:45 25 Assessing scrapie risk in dairy sheep flocks
Psifidi A., Dovas C. I., Basdagianni Z., Buzalas I., Banos G.
- 17:00 26 Sheep with enhanced resistance to parasites did not cause adaptation in *Trichostrongylus colubriformis* following long-term serial passage
Kemper K.E., Woolaston R.R., Elwin R.L., Goddard M.E., Bishop S.C.
- 17:15 Session ends

THE VALUE OF ANIMAL SCIENCE (SPA THEATRE)

Session 17:15- 18:45 (see page 1)

19:30 Poster Viewing and Wine Reception - Main Hall

20:00 Conference Dinner - Ocean Room

Theatre Sessions

Monday, 31 March 2008

Regency Room

RUMEN TRANSFORMATION

Session 13:30 - 14:20

Chair: Dr Bob Mayes

- 13:30 27 Effects of oil source, feed and pH on biohydrogenation of linoleic acid and production of *trans*-10, *cis*-12 conjugated linoleic acid (CLA) *in vitro*
Weerasinghe W.M.P.B, Huntington J.A, Wilkinson R.G, Sinclair L.A
- 13:45 28 Ruminant kinetics of fatty acids and biohydrogenation processes are affected by the amount of extruded linseeds ingested by dairy cows
Dangin M, Glasser F, Martin C, Ferlay A, Chilliard Y, Doreau M
- 13:50 29 Polyphenol oxidase activity and protein complexing in damaged red clover herbage
Lee M.R.F., Minchin F.R., Winters A.L.
- 13:55 30 Rumen microbe adaptation to red clover polyphenol oxidase protein and lipid protection
Lee M.R.F., Tweed J.K.S., Scollan N.D., Sullivan M.L.
- 14:00 31 Mechanism of polyphenol oxidase action in reducing lipolysis and proteolysis in red clover during batch culture incubation.
Lee M.R.F., Tweed J.K.S., Scollan N.D., Sullivan M.L.
- 14:15 32 Effect of grass species on release of cell components of freshly cut forage during mastication and ingestion
Kim E. J., Lee M. R. F., Ellis N., Sanderson R., Scollan N. D., Dewhurst R. J.
- 14:20 Session ends
- 15:00 Tea Break

Theatre Sessions

Monday, 31 March 2008

Regency Room

RUMINANT NUTRITION/FEED IMPROVEMENTS

Session 15:30 - 16:50

Chair: Dr Mike Lee

- 15:30 33 A comparison of the grassland based systems for mid season prime lamb production from two ewe genotypes
Keady T.W.J., Hanrahan J.P., Flanagan S.
- 15:45 34 Reduction in content of saturated fatty acids in milk fat by inclusion of whole rapeseed in the diet of dairy cows at pasture
Fearon A.M., Patterson D.C.
- 16:00 35 Effect of gamma irradiation on glucosinolate and erucic acid content of canola meal
Gharaghani H., Zaghari M., Shah Hoseini G., Moravej H.
- 16:05 36 Effect of spice supplementation on rumen ammonia concentration *in vitro*
Khan M, Chaudhry A
- 16:10 37 Effect of spice supplementation on *in vitro* forage degradability
Khan M, Chaudhry A
- 16:15 38 Effect of microbial inoculants on the nutritive value of corn silage for beef cattle
Teimouri Yansari A, Kamarlooie M
- 16:20 39 Effects of different additives on chemical composition of Whole Crop Canola Silage
Ghasemi S., Naserian A. A.
- 16:25 40 *In vitro* methods for fibre degradation show how feed enzymes can improve the nutritional value of coproducts from bioethanol production in rations for monogastric animals
Nuyens F., Somers I., Van Dyck S.M.O.
- 16:30 41 The effect of non fibre carbohydrate on *in vitro* first order dry matter disappearance model of various ruminant feeds
Danesh Mesgaran M, Rezaii F, Heravi Mousavi A, Nassiri M-Reza
- 16:35 42 Synthesis of ligninolytic enzymes from solid and aqueous growth of white-rot fungi on wheat straw
Pinto P., Bezerra R.M.F., Dias A.A., Guedes C.V.M., Ferreira L.M.M., Cone J.W., Rodrigues M.A.M.
- 16:40 43 Effect of particle size and micro-organism on lactic acid fermentation of sorghum
Niba A. T., Kouchika H., Kudi A. C., Beal J. D., Brooks P. H.
- 16:45 44 Upgrading the *in vitro* degradability of wheat straw by using soaking treatments
Shirif A-F, Chaudhry A S, Younger A
- 16:50 Session ends
- 17:15 The Value of Animal Science - Spa Theatre (see page 1)
- 19:30 Poster Viewing and Wine Reception - Main Hall
- 20:00 Conference Dinner - Ocean Room

Theatre Sessions

Monday, 31 March 2008

Vita Dome

NOVEL METHODS FOR MEASURING MEAT QUALITY

Session 13:30 - 14:50

Chair: Dr Bruce Moss

- 13:30 45 Beef carcass composition assessed by X-ray computed tomography scanning of primal joints
Navajas E. A., Glasbey C. A., McLean K. A., Fisher A. V., Richardson R. I., Ross D. W., Hyslop J. J., Simm G., Roehe R.
- 13:45 46 Repeatability and reproducibility of taste panel measurements on the meat from a commercial population of beef cattle
Gill J. L., Bishop S. C., Wiener P.
- 14:00 47 Development and evaluation of a real-time PCR method for determining skeletal muscle fibre type composition in sheep
Hemmings K. M., Parr T., Buttery P. J., Brameld J. M.
- 14:15 48 Video image analysis of live lambs to predict live weight, carcass composition and meat quality
Lambe N.R., Schofield C.P., Navajas E.A., Roehe R., Bünger L.
- 14:30 49 The associations of near infrared reflectance spectroscopy and sensory characteristics or shear force measurements of beef
Roehe R., Ross D.W., Navajas E.A., Nute G.R., Richardson R.I., Hyslop J.J., Simm G.
- 14:45 50 An assessment of the potential for live animal digital image analysis to predict the slaughter liveweights of finished beef cattle
Hyslop J. J., Ross D. W., Schofield C. P., Navajas E., Roehe R., Simm G.
- 14:50 Session ends
- 15:00 Tea/coffee and poster viewing

Theatre Sessions

Monday, 31 March 2008

Vita Dome

MEAT QUALITY

Session 15:30 - 17:25

Chair: Dr Ian Richardson

- 15:30 51 The effects of forage: concentrate ratio on meat quality of bulls slaughtered at a range of liveweights
Lively FO, Keady TWJ, Dawson LER, Moss BW, Kilpatrick DJ
- 15:45 52 Meat quality of Charolais steers: influence of feeding grass versus red clover silage during winter followed by finish off grass
Scollan N.D., Gibson K., Ball R., Richardson I.
- 16:00 53 Colour and lipid stability of beef from grazing or concentrate-fed cattle with and without supplemental alpha-tocopheryl acetate stored in a high oxygen atmosphere when intact or minced
Dunne P.G., Colarusso G, Anastasio A., Monahan F.J., Moloney A.P.
- 16:15 54 Comparison of different hanging methods of lamb carcasses
Oltra O. R., Farmer L. J., Moss B. W.
- 16:30 55 Effect of dietary concentration of docosahexaenoic acid on enrichment of organ tissues of the chicken with docosahexaenoic acid
Gibbs R, Rymer C, Givens D I
- 16:45 56 Effect of different inclusion rates of fish oil and vitamin E in broiler diets on the long chain n-3 polyunsaturated fatty acid content and sensory analysis of chicken meat
Rymer C, Givens D I
- 17:00 57 Comparison of fatty acid composition of organic grazed lambs with lambs finished by grazing or indoor intensive concentrate feeding
Fearon A.M., Klapova Strawbridge M., Annett R.W., Moore C.A.
- 17:05 58 Effect of finishing system and fish oil supplementation on the fatty acid composition of muscle from late season lamb
Annett R, Carson A, Fearon A, Kilpatrick D
- 17:10 59 Can the fatty acid composition of grass-fed sheep be maintained in a creep feed system?
Marriott D, Richardson I, Gibson K, Williams E, Scollan N
- 17:15 60 Improvement of the n-3 fatty acids content in meat of Belgian Blue culled cows and growing fattening bulls offered a diet supplemented with linseeds
Robaye V., Dotreppe O., Cabaraux J.F., Dufrasne I., Istasse L., Hornick J.L.
- 17:20 61 Effect of supplementing feed with vitamin D3 and calcium propionate on lamb meat quality
Craggs L, Brameld J, Buttery P, Parr T
- 17:25 Session ends
- 17:15 The Value of Animal Science - Spa Theatre (see page 1)

Theatre Sessions Tuesday, 1 April 2008

Spa Theatre

SIR JOHN HAMMOND MEMORIAL LECTURE

Session 09:00- 10:00

Chair: Professor Geoff Simm

09:00 HM Molecular genetics for livestock improvement – brave new world or false dawn?
Goddard M E, University of Melbourne, Australia
Hayes B, Department of Primary Industries, Australia

10:00-10:30 Coffee Break and Poster viewing

LIVESTOCK AND GLOBAL CLIMATE CHANGE

Session 10:30 - 12:20

Chair: Professor Geoff Simm

10:30 LGC2 Mitigating climate change: The role of livestock in agriculture
Gill M E and Smith P, University of Aberdeen, UK

11:00 LGC1 Redressing the balance - "less belching cows"
C J Newbold, Aberystwyth University, UK

11:30 LGC2 Adapting livestock management, feeding and breeding systems to climate change
Rowlinson P, University of Newcastle and Wall E, SAC, UK

12:00 62 Simulated Global Warming Potential figures for United Kingdom suckler beef production systems
Hyslop J. J.

12:05 63 Simulated ammonia emission figures from United Kingdom suckler beef production systems
Hyslop J. J.

12:10 64 Effect of dietary inclusion of encapsulated fumaric acid on methane production from grazing dairy cows
McCourt A.R., Yan T., Mayne S., Wallace J.

12:15 65 The effect of different forage based diets on methane emissions from dairy cows
Chagunda M.G.G., Bell J.F., Roberts D.J.

12:20 Session ends

12:30-13:30 Lunch

Theatre Sessions

Tuesday, 1 April 2008

Spa Theatre

WPSA/BSAS SESSION

IMPACT OF BIOFUELS ON LIVESTOCK PRODUCTION

Session 13:30 - 15:30

Chair: Dr Steve Wilson

- 13:30 IB1 The implications of biofuel production on intensive livestock production in the United States
Comerford J W, Penn State University, United States
- 14:00 IB2 Poultry: Use of novel co-products, economics and nutritional limitations
Acamovic T, SAC, Pritchard S, Premier Nutrition, UK
- 14:30 IB3 Pigs: Use of biofuel co-products, economics and nutritional limitations
Jagger S, ABN, UK
- 15:00 Discussion
- 15:30 Tea

IMPACT OF BIOFUELS ON LIVESTOCK PRODUCTION

Session 16:00 - 17:30

Chair: Dr John Newbold

- 16:00 IB4 Ruminants: Use of novel co-products, economics and nutritional limitations including new technologies for overcoming constraints
Marsden M, AB Agri Ltd, UK
- 16:30 IB5 Biofuels: an opportunity for forage based livestock production
Mayne Sinclair, AFBI, UK
- 17:00 Discussion
- 17:30 Session Ends
- 18:00 **AGM**
- 19:30 Poster viewing and wine reception
- 20:00 Buffet - Spa Complex

Theatre Sessions

Tuesday, 1 April 2008

Spa Theatre

SIR JOHN HAMMOND MEMORIAL LECTURE

Session 09:00- 10:00

Chair: Professor Geoff Simm

09:00 HM Molecular genetics for livestock improvement – brave new world or false dawn?
Goddard M E, University of Melbourne, Australia
Hayes B, Department of Primary Industries, Australia

10:00-10:30 Coffee Break and Poster viewing

Promenade Lounge

WPSA CONFERENCE

10:30 Opening WPSA Annual Meeting

HARNESSING GENOMIC INFORMATION

Session 13:30 - 15:10

Chair: Dr Eileen Wall

- 13:30 66 Opportunities for genome wide selection within New Zealand livestock industries
Dodds K. G., Amer P. R., Spelman R. J., Archer J. A., Auvray B., McEwan J. C.
- 13:45 67 Genomic scan for quantitative trait loci of pig chemical and physical body composition and growth traits on chromosome X
Duthie C-A, Simm G, Knap P, Wilson A, Kalm E., Roehe R
- 14:00 68 Two *myostatin* single nucleotide polymorphisms have significant effects on muscle depth of British commercial Charollais sheep
Hadjipavlou G., Matika O., Clop A., Bishop S.C.
- 14:15 69 Effects of a Texel sheep muscling QTL (TM-QTL) on carcass traits in crossbred lambs
Macfarlane J. M., Lambe N. R., Bishop S. C., Matika O., Rius-Vilarrasa E., McLean K. A., Wolf B. T., Haresign W., Bunger L.
- 14:30 70 Extending the Neutral Indel Model methodology to increase the proportion of exonic DNA found in the bovine genome
Pollott G. E.
- 14:45 71 Evaluation of the use of the Human Affymetrix GeneChip microarray for livestock species
Daniel Z, Emmerson Z, Graham N, May S, Buttery P, Brameld J, Parr T
- 15:00 72 Leptin, growth hormone receptor and DGAT1 gene polymorphisms in Holstein cattle
Karagiannis G., Zambouli D., Angelopoulou K., Oikonomou G., Banos G.
- 15:05 73 Linkage disequilibrium between Single-Nucleotide Polymorphism (SNP) in 5'-flanking region and the coding part of bovine beta-Lactoglobulin gene in three native cattle and Holstein breeds of Iran
Zakizadeh S., Reissmann M., Reinicke P.
- 15:10 Session ends
- 15:30 Tea and poster viewing

Theatre Sessions

Tuesday, 1 April 2008

Promenade Lounge

POULTRY

Session 16:00 - 16:59

Chair: Dr Nick Sparks

- 16:00 74 Selection, characterisation and screening of lactic acid bacteria of chicken origin that have probiotic properties
Savvidou S., Brooks P., Beal J.
- 16:15 75 Inbreeding effects on economic traits of native chickens of Fars Province
Bahmani mehr A., Edriss M.A
- 16:19 76 Study of genetic parameters for economic traits in Iranian native fowls
Ghazi Khani Shad A, Nejati Javaremi A, Mehrabani Yeganeh H
- 16:23 77 Effects of vitamin E and selenium dietary supplements on performance, egg quality and immune response of laying hen exposed to high environmental temperature
Mohiti Asli M, Shariatmadari F, Lotfollahian H
- 16:27 78 Efficacy of enzyme extracts from fungi and a commercial feed enzyme for improving the nutritional value of palm kernel cake for broiler feeding
Iyayi E. A, Lawal Tunde E., Adeniyi Bola A., Adaramoye O. A.
- 16:31 79 Effects of yeast cell wall and sodium bentonite on antibody titres of broiler chickens fed ration containing aflatoxin
Moghadam N., Sadeghi A.A., Ghahri H., Shawrang P.
- 16:35 80 Effect of concentration of phenolic compounds of two sorghum varieties on fermentation on sorghum with lactic acid bacteria for inclusion in poultry diets
Niba A. T., Yajima K., Kudi A. C., Beal J. D., Brooks P. H.
- 16:39 81 Effect of split diets on laying performance and egg quality of hens during the late laying period by manipulating the time of access to calcium and phosphorus
Zarghi H., Zakizadeh S., Zeaei A.
- 16:43 82 Effects of Mintrex organic trace minerals on growth performance, leg abnormalities and bone breaking strength in turkeys
Ferket P.R., Oviedo-Rondon E.O., Mente P.L., Bohorquez D.V., Santos Jr. A.A., Grimes J.L., Richards J.D., Dibner J.J., Felts V., Parker D.
- 16:47 83 Comparison on growth of Fayoumi and indigenous chicks reared under semi-scavenging system in two villages of Noakhali district of Bangladesh
Akbar A, Huda S
- 16:51 84 Use of artemia meal as a protein supplement in broiler diet
Zarei A, Mirhadi A, Shivazad M, Gherami A
- 16:55 Session ends
- 17:00 WPSA Gordon Memorial Lecture

Theatre Sessions

Tuesday, 1 April 2008

Spa Theatre

SIR JOHN HAMMOND MEMORIAL LECTURE

Session 09:00- 10:00

Chair: Professor Geoff Simm

09:00 HM Molecular genetics for livestock improvement – brave new world or false dawn?
Goddard M E, University of Melbourne, Australia
Hayes B, Department of Primary Industries, Australia

10:00-10:30 Coffee Break and Poster viewing

Regency Room

PIG NUTRITION AND MANAGEMENT

Session 10:30- 12:15

Chair: Dr Pinder Gill

- 10:30 85 Holo-analysis of the efficacy of acids as pronutrients in pig nutrition
Rosen G
- 10:45 86 Dietary betaine and ractopamine have additive effects on lean tissue deposition in restrictively-fed gilts
Dunshea F, Mottram M, Partridge G
- 11:00 87 Effects of lactose inclusion level and inulin inclusion on performance of newly weaned pigs a large-scale facility
Houdijk J.G.M., Wellock I.J., Miller A., Miller H.M., Edwards S., Wiseman J., Gill P., Kyriazakis I
- 11:15 88 Effect of lactation environment and dietary zinc oxide level on the response of group housed weaned pigs to enterotoxigenic *Escherichia coli* (ETEC) O149 challenge
Slade R, Carroll S, Reynolds F, White K, Wellock I, Kyriazakis I, Miller H
- 11:30 89 The effect of offering two feeds, with or without pharmacological levels of zinc oxide, on the individual feeding behaviour and performance of weaned piglets
Reynolds F, Forbes M, Slade R, Miller H
- 11:45 90 Intestinal gene expression in response to zinc oxide and rearing environment in the ETEC-challenged weaned piglet
Sargeant H, Shaw M-A, Miller H
- 12:00 91 The effect of straw supplementation on the performance, physiological development, aggression and boar taint compounds in pigs slaughtered at 120kg live weight
Salmon L, Edwards S A
- 12:15 Session ends
- 12:30 Lunch - Ocean room

Theatre Sessions

Tuesday, 1 April 2008

Regency Room

HEALTH

Session 13:30 - 15:35

Chair: Dr Spiridoula Athanasiadou

- 13:30 92 Effects of prenatal undernutrition on lamb growth and gastrointestinal parasitism in two breeds of sheep
Rooke J, Friboulet S, Dwyer C, Houdijk J G M, Ashworth C
- 13:45 93 The effect of season of shearing on the periparturient rise in nematode egg output in ewes
Good B., Keady T.W.J., Hanrahan J.P.
- 13:50 94 Effects of periparturient metabolizable protein nutrition on ewes subjected to different infection pressures with the abomasal nematode *Teladorsagia circumcincta*
Kidane A., Houdijk J.G.M., Athanasiadou S., Tolkamp B.J., Kyriazakis I.
- 14:05 95 A study on the feasibility of using urea molasses block as a carrier of herbal anthelmintics against gastrointestinal nematodes in lactating cows
Akbar A., Ahmed T.
- 14:10 96 An evaluation of quebracho (*Schinopsis quebracho-colorado*) tannin for the treatment of sheep gastrointestinal parasites
Cruden L., Hovell F.D.DeB.
- 14:15 97 The interactive effects of maternal nutrition and subsequent grazing on bioactive forage on lamb performance and parasitic status
Kidane A., Athanasiadou S., Houdijk J.G.M., Tolkamp B.J., Kyriazakis I.
- 14:30 98 The effect of forage type, concentrate feed level and soyabean supplementation on the periparturient rise in nematode egg output in ewes
Good B., Keady T.W.J., Hanrahan J.P.
- 14:45 99 Effects of intrinsic growth ability and protein nutrition on ability to cope with pathogens in mice
Coltherd J.C., Bünger L., Kyriazakis I., Houdijk J.G.M
- 15:00 100 A study of feet lesions and locomotion scores in four crossbred ewe types
Speijers M.H.M., Dawson L.E.R., Irwin D., Carson A.F.
- 15:15 101 Prevalence of lameness in commercial dairy flocks of Chios sheep in Greece
Gelasakis A, Valergakis G, Arsenos G, Banos G
- 15:20 102 The efficacy of natural extracts of aloe vera (*Aloe barbadensis*), neem oil (*Azadirachta indica*) and tea-tree oil (*Melaleuca alternifolia*), as treatments for ovine footrot
Smith K.J., Hovell F.D.DeB.
- 15:35 Session ends
- 15:35 - 16:00 Tea and Poster Viewing

Theatre Sessions

Tuesday, 1 April 2008

Regency Room

GENETICS OF FITNESS TRAITS

Session 16:00 - 17:45

Chair: Prof Steve Bishop

- 16:00 103 Estimation of genetic associations between piglet survival and performance traits for sire and dam lines with common ancestry
Kapell D. N. R. G., Ashworth C. J., Walling G., Lawrence A.B., Edwards S. A., Roehe R.
- 16:15 104 Using novel partitioning methodologies to enable genetic parameter estimation for reproductive traits affected by porcine reproductive and respiratory syndrome virus (PRRSV) in pigs
Lewis C.R.G., Torremorell M., Bishop S.C.
- 16:30 105 Genetic analysis of a two generation selection experiment under outdoor conditions designed to disentangle direct and maternal genetic effects of piglet survival
Roehe R, Shrestha N P, Mekkawy W, Baxter E, Knap P W, Smurthwaite K M, Jarvis S, Lawrence A B, Edwards S A
- 16:45 106 Genetic aspects of resistance to footrot in sheep
Nieuwhof G .J., Conington J., Bünger L., Bishop S.C.
- 17:00 107 Analysis of genetic relationships among footrot and performance data in Scottish Blackface sheep
McLaren A, Lambe N, Conington J, Bishop S C, Nieuwhof G, Bünger L
- 17:15 108 Genetic evaluation of female fertility in Ayrshire, Guernsey, and Jersey dairy cattle
Wall E, Coffey M, Mrode R
- 17:30 109 Heritability of digital dermatitis and its association with locomotion, production, fertility and lifespan
Onyiro O. M., Andrews L. J., Brotherstone S.

Spa Theatre

18:00 BSASAGM

19:30 Poster viewing and wine reception

20:00 Buffet - Spa Theatre

Theatre Sessions

Tuesday, 1 April 2008

Vita Dome

DAIRY COW NUTRITION I

Session 10:30 - 12:00

Chair: Dr Chris Reynolds

- 10:30 110 Toward a new practical UK energy evaluation system for dairy cows
Tolkamp B. J., Kyriazakis I.
- 10:45 111 Milk production and composition and tissue energy balance of early lactation dairy cows fed diets supplemented with calcium salts of fatty acids (Megalac)
Aikman P C, Jones A K, Kirkland R M
- 11:00 112 Effect of grass species on efficiency of nitrogen utilisation in Holstein-Friesian dairy cows
Kim E. J., Lee M. R. F., Ellis N., Sanderson R., Scollan N. D., Dewhurst R. J.
- 11:15 113 Effect of dietary phosphorus level on energy metabolism and phosphorus utilisation in first lactation dairy cows
Ferris C.P., Porter M.G., Kilpatrick D.J., Patterson D.C.
- 11:30 114 Effects of level and form of dietary zinc on apparent absorption and retention in dairy cattle
Atkin C. M, Mackenzie A. M, Wilde D, Sinclair L. A
- 11:45 115 Effects of an oral supplementation of lactoferrin or of the association lactoferrin-lactoperoxidase system to newborn calves on health and production parameters
Giordano L., Dotreppe O., Hornick J.L., Mainil J., Istasse L., Dufrasne I.
- 12:00 Session ends
- 12:30 Lunch - Ocean Room

DAIRY COW NUTRITION II

Session 13:30 - 14:45

Chair: Dr Liam Sinclair

- 13:30 116 The effect of over wintering strategies on performance and carcass characteristics for cull dairy cows on a subsequent grass based finishing strategy
Minchin W., O'Donovan M, Kenny D, Monahan F, Shalloo L, Buckley F
- 13:45 117 Effect of the inclusion of a live yeast culture into mixed forage diets on milk yield, locomotion score, lameness and sole bruising in first lactation Holstein Friesian dairy cattle
Lethbridge L. A., Margerison J. K.
- 14:00 118 Relationships between blood metabolites and hormones before and after first calving in dairy heifers and their fertility during the first lactation
Brickell J, Bourne N, Wathes D C
- 14:05 119 The effect of level of milk and plant extracts on growth rate and development of New Zealand Friesian and Jersey Cross Friesian dairy heifers
Margerison J. K., Reynolds G. W., Laven R.
- 14:10 120 Validation of the sulphur hexafluoride (SF6) tracer technique as a method of predicting methane output from dairy cows
McCourt A.R., Yan T, Mayne S
- 14:25 121 Effects of microbial inoculants on the dry matter intake, nutrients digestibility and chewing activity and performance of Iranian Holstein Dairy cows
Teimouri Yansari A, Kamarlooie M
- 14:30 Session Ends

Theatre Sessions

Wednesday, 2 April 2008

Spa Theatre

SHEEP AND DAIRY CATTLE NUTRITION

Session 08:30 - 10:10

Chair: Ryan Law

- 08:30 122 Effects of starch level and forage particle length on the performance, milk fatty acid profile and production of *trans*-10, *cis*-12 conjugated linoleic acid in dairy ewes
Weerasinghe W.M.P.B., Wilkinson R.G., Sinclair L.A.
- 08:45 123 The dose effect of rumen protected *trans*-10, *cis*-12 CLA on milk fat synthesis in dairy ewes
Weerasinghe W.M.P.B., Wilkinson R.G., De Veth M.J., Bauman D.E., Sinclair L.A.
- 09:00 124 Effect of season of shearing on ewe and progeny performance
Keady T.W.J., Hanrahan J.P.
- 09:15 125 The effects of grass silage harvest system, concentrate feed level and maize silage maturity and soyabean supplementation on ewe and subsequent lamb performance
Keady T.W.J., Hanrahan J.P.
- 09:30 126 Plasma concentrations of glucagon-like peptide-1 and cholecystokinin in sheep are altered by the amount of dry matter intake and the addition of fat to the diet
Relling A. E., Lengacher B. J., Loerch S. C., Reynolds C. K.
- 09:45 127 Effect of raw or roasted whole soybean on early lactational performance of Iranian Holstein cows
Fathi Nasri M H, Danesh Mesgaran M, Valizadeh R, Riasi A, Farhangfar H
- 09:50 128 Effect of diets containing different levels of steam treated pith bagasse on performance and carcass characteristics of fattening Arabi lambs
Dabiri N, Hashemipour E
- 09:55 129 Computerised machine rearing systems for group housed dairy-bred bull calves
Marsh S. P., Warnock W.
- 10:00 130 Effect of forage type and enzyme feed additive on performance of Iranian Holstein cows
Naserian A.A., Valizadeh R., Saremi B.
- 10:05 131 Effect of fat supplement in Holstein dairy cow transition diets on plasma leptin concentration and performances
Afzalzadeh A, Palizdar M H, Danesh Mesgaran M, Niasari A
- 10:10-10:30 Coffee Break and poster viewing

Theatre Sessions

Wednesday, 2 April 2008

Spa Theatre

EQUINE NUTRITION

Session 10:30 - 12:25

Chair: Dr Jimmy Hyslop

- 10:30 EN Nutrient requirements of horses: Changes incorporated into the the 2007 Horse NRC
Nielsen B D, Michigan State University, USA
- 11:00 132 Initial investigations into feeding a combined vitamin and organic mineral supplement on the fertility of UK sport horse stallions
Tucker L.A., Morris L.H.A., Matson T.
- 11:15 133 Voluntary feed intake, dry matter intake and consumption rate of three compositionally differing fibre sources when fed to veteran horses with compromised dentition
Hale C, Mann T, Judd, Hemmings A
- 11:30 134 Cereals, hay and straw high in selenium by use of selenium enriched fertilizers : effects on selenium status in exercised horses
Hornick J.L., Paeffgen S., Dotreppe O., Istasse L., Dufrasne I.
- 11:45 135 The effect of a supplementary probiotic on faecal *lactobacilli* count and faecal pH of horses
Arrowsmith G, Dumbell L.C.
- 12:00 136 Preliminary evaluation of weight estimation equations in sport horse type foals (*Equus caballus*)
Hothersall B, Staniar W B, Stewart I, Sortoft L, Harris P
- 12:15 137 Varying forage stem length as a behavioural enrichment for stabled horses
Dumbell L.C., Wiggett M.
- 12:20 138 Investigation to determine whether a preference of forage types exists within horses
Moore R.N., Adjei L.J.
- 12:25 End of session
Snack bar open for purchase of light lunch

EQUINE

Session 13:30-16:00

- 13:30 Why do we need equine research
Nielsen B D, Michigan State University, USA
- 13:45 Experimental design and statistics,
Amory J, Writtle College and McBride S, IRS, University of Aberystwyth, UK
- 14:15 How to critically analyse,
Hemmings A, RAC and Hale C, Writtle College, UK
- 14:45 Break during which summaries read by audience
- 15:00 Practical Analysis of a paper summary
- 15:50 Update on BEFRED and what next
Crossman G, RAC, UK
- 16:00 Session ends

Theatre Sessions

Wednesday, 2 April 2008

Regency Room

KNOWLEDGE TRANSFER - IS IT WORKING?

Session 08:30-10:10

Chair: Dr Alistair Carson

- 08:30 139 Developing research into practice -Extension at Grassland Development Centre, IGER
McCalman H, Duller C, Morgan C
- 08:35 The role of Teagasc research within the extension service
Ramsbottom G
- 08:40 140 EBLEX Better returns programme
Lloyd C
- 08:45 141 SAC developments in practical knowledge transfer
Vipond J.
- 08:50 142 The Demonstration Farm and Discussion Group Network in Wales
Morgan P., Davies L.
- 08:55 143 Dairy Development Centre – Knowledge transfer
Griffiths J
- 09:00 KT1 Questioning the purpose of a knowledge transfer strategy
Ison R Open Systems Research Group, Walton Hall, UK
- 09:30 Discussion
- 10:00 Coffee
- 10:30 KT2 Who is the competition? Knowledge transfer and the weakness of social networks
M J Reed Countryside and Community Research Institute, Cheltenham, UK
- 11:00 KT3 Transferring technology or facilitating innovation? reflections from recent research with English livestock farmers
Garforth C, University of Reading, UK
- 11:30 KT4 Understanding and influencing positive behaviour change in farmers and land managers
Ingram J, University of Gloucestershire, UK
- 11:50 Discussion
- 12:30 Session ends

Theatre Sessions

Wednesday, 2 April 2008

Vita Dome

NON TRADITIONAL SPECIES

Session 08:30 - 09:20

Chair: Dr Jennie Litten-Brown

- 08:30 144 Survey of the exercise workload, physiological issues, monetary value and nutrition of working dogs in New Zealand
Singh I., Thomas D.G., Tucker L.A., Leach T.
- 08:45 145 Rapeseed meal as an alternative protein source for culturing common carp (*Cyprinus carpio*)
Sultana S., Chaudhry A.S.
- 08:50 146 The effect of enclosure design on the behaviour of captive Ring-tailed lemurs (*Lemur catta*).
Williams C., Litten-Brown J.C.
- 08:55 147 Some hair characteristics of camels in two provinces of Iran
Salehi M.
- 09:00 148 Effect of rapeseed meal substitution on water quality of fish tanks containing common carp (*Cyprinus carpio*)
Sultana S., Chaudhry A.S.
- 09:05 149 Preliminary investigation of tuber coxae - tuber calcanei length in selected groups of event horses
Byfield S., Whitaker T. C.
- 09:10 150 The investigation of genetic variation in Mazandaran buffalo population using microsatellite markers
Aminafshar M., Amirinia C., Vaez Torshizi R., Javanrouh A., Seiedabadi H.R.
- 09:15 151 Investigation on efficiency of individual selection system in 31 and 32 Lines of silkworm and its effects on production traits performance in 31×32 hybrid
Seidavi A.R., Mirhosseini S.Z., Bizhannia A.R., Ghanipoor M.
- 09:20 Session ends
- 10:00 Coffee and Poster viewing

DAIRY COW MANAGEMENT

Session 10:30-12:00

Chair: Jenny Bell

- 10:30 152 Predicting bovine milk urea concentration for future test-day records in a management perspective
Bastin C., Laloux L., Bertozzi C., Gengler N.
- 10:45 153 Consistency of aggressive feeding behaviour in dairy cows: effect of feedface length, stage of lactation and dominance rank
Gibbons J M., Lawrence A B., Haskell M J.
- 11:00 154 Trade-off decisions of dairy cow feeding preferences
Lang F. C., Healy S. D., Roberts D. J., Haskell M. J.
- 11:15 155 The effect of organic status, housing type and other management factors on somatic cell counts in dairy cows
Haskell M.J., Rutherford K.M.D., Langford F.M., Sherwood L., Jack M., Lawrence A.B.
- 11:30 156 Metabolic profile throughout lactation in primiparous Holstein cows raised in Greece
Oikonomou G., Roubies N., Valergakis G. E., Arsenos G., Banos G.
- 11:45 157 An investigation into combinations of energy balance and luteal cycle characteristics which influence the day of first heat in dairy cattle
Pollott G. E., Coffey M. P.

12:15 End of Session and Conference

Poster Sessions
Monday 13:30 - Tuesday 13:00

MAIN HALL

WELFARE

Poster viewing, authors in attendance, Monday afternoon tea break and 19:30-20:00 hours wine reception.

- 158 Observations on the time course of calving events in unassisted multiparous spring calving suckler cows housed in a straw bedded yard
Hyslop J. J., Ross D. W., Bell M., Dwyer C.
- 159 Risk factors for piglet mortality in outdoor farrowing systems
Shrestha N.P., Roehe R., Smurthwaite K.M., Jarvis S., Lawrence A.B., Edwards S.A.
- 160 Welfare indicators for dairy cows in the Northwest of Portugal
Silva S. R., Silvestre A., Lourenço A., Neves C., Almeida J.
- 161 The effect of altering the floor surface, on the intake and behaviour of housed dairy cows
Stroebel L., Ferris C.P., Gordon A.
- 162 Breed effect on lamb activity and vocalization in a man-animal interaction test
Silva S. R., Lourenço A., Almeida J., Fontes P., Machado R., Azevedo J.
- 163 Horse gender and fall rate for hurdlers during 2004/05 National Hunt season
Bailey J., Gill R., Whitaker T. C.
- 164 The effect of GnRH injection and post insemination plasma progesterone concentration on delayed ovulation and conception rate in Iranian Holstein cows
Zare Shahne A, Mohammadi Z, Moradi Shahre B M, Fazeli Mohammad H, Masoumi R
- 165 Effect of prostaglandin F_{2α} on reproductive performance in Iranian low libido Holstein bulls
Masoumi R, Towhidi A, Nejati-Javaremi A, Nabizade H
- 166 Evaluation of some blood biochemical factors in postpartum anoestrous in dairy cows
Moghaddam G, Lak M., Shoja J., Taghizadeh A., Alijani S.

Poster Sessions
Monday 13:30 - Tuesday 13:00

MAIN HALL

DAIRY

Poster viewing, authors in attendance, Monday afternoon tea break and 19:30-20:00 hours wine reception.

- 167 Effect of dietary methionine concentration on some blood metabolites of early lactating Holstein cows
Jafari-Jafarpoor R, Danesh Mesgaran M, Heravi Mousavi A, Tabatabai Yazdi F, Taheri H
- 168 Effect of days dry and diet combination on first 60 days milk production and somatic cell counts of Iranian high producing Holstein cows
Danesh Mesgaran S, Hojjatpanah A, Vatandoost M, Talebi M, Maddahi H
- 169 Effects of pre- and postpartum feeding fish meal on blood metabolites in early lactating Iranian Holstein cows
Heravi Moussavi A., Danesh Mesgaran M., Vafa T., Soleimani A.
- 170 Canola meal as a substitute for soybean meal in diet of early lactation Iranian Holstein cows
Hosseini F., Heravi Moussavi A., Danesh Mesgaran M., Arshami J.
- 171 Effect of diets containing soybean meal or canola meal on follicular dynamic in early lactation Iranian Holstein cows
Hosseini F., Heravi Moussavi A., Danesh Mesgaran M., Arshami J., Soleimani A.
- 172 Effect of alfalfa hay particle size and dry mater content of barely base diets on ruminal, faecal and blood measurements of dairy cow in early lactation
Hosseinkhani A, Valizadeh R, Naserian A, Danesh Mesgharan M
- 173 Effect of feeding protected fat on dairy cow productivity and fertility
Macrae A.I., Penny C.D., Hodgson-Jones L., Aitchison K., Burton S., Lawson D., Kirkland R., Grant N.
- 174 Effect of a dietary cellulase/xylanase enzyme on dairy cow performance
Ghasemi S., Naserian A. A.
- 175 Effect of supplemental fat and NDF on fiber digestibility, ruminal pH and chewing activity in lactating dairy cows
Bashtani M., Naserian A.A., Valizadeh R., Farhangfar H., Rowlinson P.
- 176 Nitrogen utilisation and manure nitrogen output for Jersey-Holstein and pure breed Holstein dairy cows
Yan T.
- 177 Effect of dietary phosphorus level on bone composition of dairy cows
Ferris C.P., McCoy M.A., Kilpatrick D.J.
- 178 The impact of uterine infection on the reproductive performance of dairy cows
Bell M J, Roberts D J
- 179 Effect of twinning on the feed intake, performance and reproductive health of dairy cows
Bell M J, Roberts D J
- 180 Reasons for exiting in Iranian Holstein cows
Heravi Moussavi A., Danesh Mesgaran M
- 181 Days in milk at exiting in Iranian Holstein dairy cows
Heravi Moussavi A., Danesh Mesgaran M
- 182 Effects of pectin on production and urinary nitrogen excretion in lactating Saanen dairy goats
Sari M, Naserian A, Valizadeh R

Poster Sessions Monday 13:30 - Tuesday 13.00

MAIN HALL

BEEF AND SHEEP

Poster viewing, authors in attendance, Monday afternoon tea break and 19:30-20:00 hours wine reception.

- 183 Digestibility of low and high-roughage diets by two breeds of sheep
Gomes M, Guedes C, Lourenço A, Azevedo J, Dias-da-Silva A
- 184 Effects of condensed tannins from *Acacia mearnsii* on *Trichostrongylus colubriformis* in experimentally infected Brazilian sheep
Minho A. P., Filippsen M., Filippsen L.F., Amarante A. F.T., Gennari S. M., Abdalla A. L.
- 185 The effect of dietary intake of phosphorus on true absorption and excretion of phosphorus in Brazilian Santa Ines sheep
Vitti D.M.S.S., Bueno I.C., da Silva Filho J.C., Soares T., Patino Pardo R.E.A., Nasser M., de Almeida E., Sallam S., Nascimento Filho V.
- 186 Seasonal wool growth and staple strength on Baluchi sheep breed
Salehi M.
- 187 Effect of a mannan oligosaccharide supplement (Bio-Mos®) on the growth of indoor reared lambs from birth until weaning on a commercial farm.
Wilde D, Good A R, Barber D J, Rose A
- 188 Effects of plane of nutrition of ewes in early and mid pregnancy on performance of the offspring: female reproduction and male carcass characteristics
Muñoz C., Carson A. F., McCoy M. A., Wylie A. R. G., Gordon A. W.
- 189 Effect of supplemented diet by sucrose or starch on ruminal pH and ammonia-N concentration in Holstein steers
Rezaii F, Danesh Mesgaran M, Heravi Mousavi A, Nasiri Mohammad R
- 190 Quantitative aspects of phosphorus metabolism in beef cattle using the isotopic dilution technique
Bueno I. C. S., Castilho Lécio A., Peçanha M.R.S.R., Abdalla A.L., Vitti D.M.S.S.
- 191 Effect of rearing dairy-bred beef calves on once or twice per day milk feeding systems to weaning at 6 weeks old
Marsh S. P., Collinson A. R.
- 192 The effect of fluctuation in rumen pH on attachment of *Ruminococcus flavefaciens* to dietary substrates as determined by real-time PCR
Vakili A, Danesh Mesgaran M, Heravi Mousavi A, Valizadeh R, Nassiry Mohammad R, Yáñez-Ruiz D R., Newbold C J
- 193 The effect of fluctuations in rumen pH on *Fibrobacter succinogenes* populations in rumen fluid as determined by real-time PCR
Vakili A, Danesh Mesgaran M, Hervai Mousavi A, Valizadeh R, Nassiry Mohammad R, Yáñez-Ruiz D R., Newbold C J
- 194 Study on the efficacy of *Artemisia* species leaves extract against common nematodes of sheep
Thalapiya S

MEAT

Poster viewing, authors in attendance - 19:30 - 20:00 hours, and during tea break Monday afternoon, Main Hall

- 195 Relationship between ewe body condition score and fat and muscle measurements obtained by real time ultrasound
Silva S. R., Guedes C., Lourenço A., Gomes M., Santos V., Azevedo J., Dias-da-Silva A.
- 196 Effect of sex, degree of maturity and diet of kids from Serrana breed on carcass composition and muscle chemical composition
Monteiro A., Silva S., Lourenço A., Azevedo J., Teixeira A., Castilho M.

Poster Sessions
Monday 13:30 - Tuesday 13.00

MAIN HALL

GENETICS AND GENOMICS

Poster viewing, authors in attendance, Monday afternoon tea break and 19:30-20:00 hours wine reception.

- 197 Breeding for resistance to footrot – using hoof scoring to quantify footrot in sheep
Conington J, Hosie B, Nicoll L, Nieuwhof G, Bishop S C, Bünger L
- 198 Comparison of fixed and random regression test day animal models in genetic evaluation of Iranian Holstein heifers for somatic cell score
Farhangfar H, Abedini A, Rowlinson P, Shojaian K, Mohammad Nazari B, Naeemipour H, Fathi Nasri M.H.
- 199 Investigation on effects of selection system in parental generation on efficiency of reproduction traits in three Chinese lines of silkworm
Mirhosseini S.Z., Seidavi A.R., Bizhannia A.R., Ghanipoor M.
- 200 The frequency of calpain regulatory gene polymorphism in Iranian native Karakul sheep
Nosrati M, Eftekhar Shahrodi F, Nasiry M, Ghazanfari S
- 201 Relationship between leptin gene polymorphism with economical traits in Iranian Sistani
Nobari K, Jorjani E., Nassiry Mohammad R, Ghazanfari S
- 202 Comparison of linear and non-linear method in prediction of second parity milk yield in dairy cattle based on first parity production data
Hosseinnia P, Edriss M. A., Edrisi M, Rahmani Hamid Reza
- 203 The effect of Pit-1 gene polymorphism on some of the milk yield traits of Iranian Holstein dairy cow
Edriss V, Edriss M.A., Rahmani Hamid Reza
- 204 Evaluation of genetic and phenotypic parameters for weight at different ages in Karakul sheep
Jahandar Mohammad H, Elahi Torshizi M, Delavar Malek H
- 205 Effect of cross-breeding of dairy cows on energetic efficiency and energy partitioning
Yan T, Mayne C. S., Ferris C. P.
- 206 Evaluation of progeny from Limousin bulls with either a top 1% or bottom 1% beef value
Marsh S. P., Vickers M., Wharton N.
- 207 Study of the genetic links between two Belgian horse breeds by the study of their genetic variability
Bay E., Gengler N., Janssens S., Hammami H.
- 208 Changes in genetic merit of silkworm lines over eight generations
Mirhosseini S.Z., Ghanipoor M., Seidavi A.R., Bizhannia A.R.
- 209 Polymorphism in exon 3 of Bovine Leptin Gene in Iranian Holstein cattle
Yazdani H, Rahmani Hamid Reza, Edriss M. A.
- 210 Polymorphism of Insulin-Like Growth Factor I in Iranian Holstein Cows
Bonakdar E., Rahmani H. R., Edriss M. A., Sayed-Tabatabaei B. E., Ghorbani G. R.
- 211 Polymorphism of the Growth Hormone Gene in Iranian Holstein Cows
Tavakoli S., Edriss M. A., Rahmani H. R., Sayed-Tabatabaei B. E., Ghorbani Gh. R.

Poster Sessions
Tuesday 13:30 - Wednesday 12:30

MAIN HALL

FEEDSTUFFS AND TECHNIQUES

Poster viewing, authors in attendance - Tuesday afternoon Tea break and 19:30-20:00 hours wine reception.

- 212 Ruminal degradability parameters of corn grain processed using various methods
Khosrojerdi M., Saremi B., Khalili M.
- 213 Silage characteristics of a halophyte tropical forage growth in Iran
Shahdadi A.R., Zaher Farimani M., Saremi B.
- 214 Lactic acid bacteria as an corn silage additive and its effects on fattening performance of Brown Swiss male calves
Foroughi A.R., Saremi B., Rahimi A.
- 215 Ruminal degradability of neutral detergent fibre and neutral detergent insoluble nitrogen of feed supplements
Guedes C, Rodrigues M, Cone J, Lourenço A, Silva S, Dias-da-Silva A
- 216 Methods of barley grain processing and its ruminal disappearance *in situ*
Khalili M., Saremi B., Khosrojerdi M.
- 217 Effects of gamma irradiation on protein degradation characteristics of pea
Shawrang P., Sadeghi A.A.
- 218 *In vitro* gas measuring technique for evaluating the nutritional quality of Iranian safflower seed and comparing them with other oil seeds
Alizadeh A. R., Ghorbani G. R., Alikhani M., Rahmani H. R.
- 219 The effect of exogenous fibrolytic enzymes on lucerne hay nutritive value using *in vitro* gas production and *in situ* techniques
Baghbanzadeh Nobari B, Taghizadeh A, Janmohammadi H, Alijani S, Besharati M
- 220 Effects of ethanol treatments on degradation kinetics of crude protein and rumen undegraded protein of canola meal
Sadeghi A.A., Shawrang P.
- 221 The effect of oil content of various feed protein sources on *in situ* and *in vitro* ruminal and post-ruminal protein disappearance
Danesh Mesgaran M, Jahani-Azizabadi H, Heravi Mousavi A
- 222 *In vitro* gas production parameters of high fat sunflower meal treated with formaldehyde, sodium hydroxide or exogenous enzyme
Mohammadabadi T., Danesh Mesgaran M., Heravi Mousavi A., Nasiri M.R., Chaji M.
- 223 Relationship between *in situ* degradation kinetics and *in vitro* gas production fermentation using different mathematical models
Rodrigues M.A.M., Cone J.W., Guedes C.V.M., Ferreira L.M.M.
- 224 Partial replacement of soyabean meal and rapeseed meal with a slow release urea source (Optigen®II) and its effect on microbial growth and metabolism *in vitro*
Sinclair L.A., Huntington J.A., Wilde D.
- 225 The effect of non- fibre carbohydrate on *in vitro* NDF disappearance of various ruminant feeds
Rezaei F, Danesh Mesgaran M, Heravi Mousavi A, Nasiri Mohammad R
- 226 The study of fermentation characteristics of some by-products using gas production technique
Besharati M, Taghizadeh A, Janmohammadi H, Moghadam Gholam A, Baghbanzadeh Nobari B

Poster Sessions
Tuesday 13:30 - Wednesday 12:30

MAIN HALL

FEEDSTUFFS AND TECHNIQUES

Poster viewing, authors in attendance - Tuesday afternoon Tea break and 19:30-20:00 hours wine reception.

- 227 Biological technique of upgrading the feeding quality of wheat straw
Jones A.V., Williams A.P., Hale M.D., Omed H.M.
- 228 Evaluation of some by-products using *in situ* technique
Besharati M., Taghizadeh A., Janmohammadi H., Mogaddam G.A.
- 229 The potential of low temperature steam treatment for improving the nutritional value of sugarcane pith
Chaji M., Naserian A.A., Valizadeh R., Eftekhari Shahroodi F., Mohammadabadi T.
- 230 Effects of Alfalfa particle size and soybean oil on digestibility, chewing activity, milk yield and composition of early lactating Iranian Holstein cows
Teimouri A, Arjmandi K
- 231 Effect of fumaric acid supplementation on nutrient digestibility in growing Kadon pigs
Vasupen K., Yuangklang C., Wongsuthavas S., Mitchaothai J., Beynen A.C.
- 232 Effects of maize cultivar and dry matter content at harvest on rumen fermentation properties
Cone J.W.
- 233 The effects of steaming and soaking treatments on respirable particles and nutrient levels of hay
Adjei L., Dumbell L.C.
- 234 The effect of soluble non-starch polysaccharides in piglet diets on whole digesta viscosity measurements
Lee E., Doucet F.J., Hill S.E., Wiseman J.
- 235 Physical and chemical property of some Iranian non-forage fibre sources
Behgar M., Valizadeh R., Naserian A. A., Shahroudi F. E., Nasiri M. R.
- 236 Nutrient composition in three varieties of full-fat canola seed from Iran
Assadi Soumeh E, Janmohammadi H, Taghizade A, Rafat A
- 237 Determination of the adhesion of enteropathogens to food and feed ingredients
Becker P. M., Galletti S.
- 238 The degradation kinetic of NDF and lignin of sunflower meal containing low or high fat treated with sodium hydroxide
Mohammadabadi T., Danesh Mesgaran M., Heravi Mousavi A., Nasiri M.R., Chaji M.
- 239 Effects of *Lactobacillus plantarum* MTD1 on fermentation and nutritive value of low dry matter maize silage
Sadeghi K, Ghorbani Gholam R, Khorvash M, Alikhani M, Moghaddasi S
- 240 Effect of defaunating the rumen of sheep fed various diets on gas production *in vitro*
Jafari Khorshidi K, Rezaeian M, Abedi C Seyedeh S
- 241 Study of steam pressure and reaction time effect on chemical composition and degradability of Palm date leaves
Karimi N, Nikkhah A, Zahedifar M, Fazaeli H, Chamani M
- 242 Effects of steam treatment on enzymic hydrolysis and bioutilization of palm date leaves
Karimi N, Nikkhah A, Zahedifar M, Fazaeli H, Chamani M

Poster Sessions
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MAIN HALL

FEEDSTUFFS AND TECHNIQUES

Poster viewing, authors in attendance - Tuesday afternoon Tea break and 19:30-20:00 hours wine reception.

- 243 The effects of bacterial inoculation and hybrids on fermentation characteristics and *in vitro* dry matter digestibility of maize silage
Moghaddasi S, Khorvash M, Alikhani M, Ghorbani G, Rowghani E, Sadeghi K
- 244 Effect of lucerne hay particle size and physical effectiveness factor of diet on utilization of soy hull by dairy cows
Behgar M., Valizadeh R., Naserian A. A., Shahroudi F. E., Nasiri M. R.
- 245 Nutritional evaluation of low dry matter maize silage ensiled with or without a bacterial inoculant: 2. Effects on aerobic stability and animal performance
Rezaeian M., Khadem A.A., Vakily H., Afzalzadeh A., Mousavi S.S.
- 246 Relationship between starch degradation of cereal grains determined after rumen incubation and by boiling with α -amylase solution
Guedes C, Rodrigues M, Lourenço A, Silva S, Dias-da-Silva A
- 247 Nutritional evaluation of low dry matter maize forage ensiled with or without a bacterial inoculant: 1. Effects on fermentation parameters and dry matter degradability
Khadem A.A., Rezaeian M., Vakily H., Afzalzadeh A., Chaudhry A.S., Honarзад H.
- 248 A comparison of the protein degradation profile of soybean meal and a slow release nitrogen source (Optigen®) *in vitro*.
Palmer M J A, Wilde D, Fawcett R H
- 249 Effect of fresh leaves and residue of oil extraction of eucalyptus (*Eucalyptus citriodora*) on methane emission *in vitro*
Sallam S. M.A., Bueno I.C.S., Nasser M.E.A., Vitti D.M.S.S., Abdalla A.L.
- 250 The *in vitro* gas production of untreated and high pressure steam treated sugarcane pith
Chaji M., Naserian A.A., Valizadeh R., Eftekhari Shahroodi F., Mohammadabadi T.
- 251 Degradability of pistachio by-products at different harvesting times
Hashami O., Naserian A.A., Tahmasbi A.M., Valizadeh R., Mohammadabadi T.

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MAIN HALL

PIG FEED

Poster viewing, authors in attendance - Tuesday afternoon Tea break and 19:30-20:00 hours wine reception.

- 252 Effect of dietary protein concentration on performance of group-fed pigs
Stewart A H, Wood J D, Stonehouse G G, Doran O, Hazzledine M J
- 253 Effect of a low protein : energy nutritional strategy on intramuscular and subcutaneous fatty acid content, and stearyl-CoA desaturase protein expression in Large White and Duroc pigs
Doran O, Stonehouse G. G., Hallett K. G., Wood J. D.
- 254 A model on biological flow of phosphorus in growing pigs
Lopes J. B., Moreira J. A., Vitti D. M. S. S., Teixeira A. O. T.
- 255 Kinetics of phosphorus in pigs fed diets with increasing levels of phytase
Moreira J. A., Vitti D. M. S. S., Lopes J. B., Teixeira A. O., Castilho L. A.
- 256 Digestive physiology of pigs fed diets containing different phosphorus sources
Moreira J. A., Vitti D. M. S. S., Lopes J. B., Teixeira A. O., Peçanha M. R. R.

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MAIN HALL

POULTRY

Poster viewing, authors in attendance - Tuesday afternoon Tea break and 19:30-20:00 hours wine reception.

- 257 The effect of different levels of palm olein oil on performance trait, egg quality, egg cholesterol and immune system of layers
Hosseini SJ, Afzali N, Farhangfar H, Naseri MA, Malekaneh M, Rowlinson P
- 258 The effect of probiotic supplementation on egg quality of old broiler breeder hens
Shahsavari K, Shariatmadari F, Daneshyar M
- 259 Effect of feeding periods and sodium levels of pre-starter diet on broiler performance and serum electrolytes
Bidar N, Sayyah Zadeh H, Rezaei M, Kermanshahi H
- 260 Interactive effect of sodium bentonite with pigment on performance and egg quality of laying hens from 36-48 weeks of age
Hashemipour H., Kermanshahi H., Golian A.G., Nassiri Moghaddam H.
- 261 Effects of selenium source on male broiler performance, breast yield and plasma thyroid hormones in different levels of dietary energy
Hafezparast M, Samie A, Pourreza J, Rahmani H
- 262 Use of organic acids mixture as an option to replace antibiotic growth promoters in poultry diets
Saki Ali A, Haghighat M, Zamani P
- 263 The effect of betaine supplementing on choline chloride and DL-methionine requirement of male broiler chicks
Eila N, Salevati Nohammad R, Shivazad M, Zarei A, Motamedi Motlagh M
- 264 Dietary olive oil and soybean oil, when compared with tallow, reduce abdominal fat deposition and plasma cholesterol concentrations in broilers, layers and Thai native chickens
Wongsuthavas S., Yuangklang C., Mitchaonthai J., Vasupen K., Nugboon K., Beynen A. C.
- 265 Efficacy of clinoptilolite for protecting full-term broilers from aflatoxicosis
Safamehr A, Shivazad M
- 266 Effect of different energy and protein contents of the diet on performance and growth hormone concentration in the blood of broiler chicken.
Ghazanfari S, Kermanshahi H, Nassiry Mohammad R, Golian A, Nobari K
- 267 Effect of feed restriction and different energy and protein contents of the diet on performance and growth hormone concentration in broiler chicken.
Ghazanfari S, Kermanshahi H, Nassiry Mahammad R, Golian A, Nobari K
- 268 Effects of substitution of antibiotic growth promoter with organic acids mixture on some serum chemistry in broiler chicken.
Haghighat M, Saki Ali A, Zamani P, Rahmani A
- 269 Effect of gamma irradiation on feather meal protein quality for broiler chickens
Gharaghani H., Zaghari M., Shah Hoseini G., Moravej H.
- 270 The effect of reducing fish meal of diets supplemented with DL-methionine and L-lysine hydrochloride on female broiler performance
Eila N, Jalilian R, Motamedi Motlagh M, Norouzian Hosain

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POULTRY

Poster viewing, authors in attendance - Tuesday afternoon Tea break and 19:30-20:00 hours wine reception.

- 271 Effect of dietary Fermacto® supplementation on performance, transit time of feed and gut microflora of broiler chickens fed diets low in digestible amino acids
Khaksar-Zareha V., Golian A., Kermanshahi H., Jamishidi A., Movasseghi A. R
- 272 Efficiency evaluation of alternative antibiotic growth promoters on Iranian Ross broiler performance
Ziaie H., Bashtani M., Farhangfar H., Rowlinson P., Karimi Torshizi M.A.
- 273 Effect of sodium bentonite and comparison of pellet versus mash on performance of broiler chickens
Sallary S, Nassirimoghadam H, Kermanshahi H
- 274 Does ascites affect the weight of internal organs in broilers?
Daneshyar M, Kermanshahi H, Golian A.G, Shahsavari K
- 275 The effect of long term treatment of Carbendazim on pre-cocoon parameters of mulberry silkworms (*Bombyx mori*)
Bizhannia A.R., Etebari K., Seidavi A.R., Sourati R., Ghanipour M.
- 276 The effect of Admiral® insect growth regulator on the biological traits of first instar larvae of silkworm (*Bombyx mori*)
Bizhannia A.R, Sheykhi-Gorjani A., Mavvajpour M., Seidavi A.R., Ghanipour M.

FREE COMMUNICATIONS

- 277 Investigation into the effect of equine head and neck conformation on stride length in walk and trot
Robin C, Brigden C, Northrop A
- 278 Evaluation of a dietary urine acidifier on urinary and reproduction parameters in sows
Rüel B., Kyriacou C. C., Forat M.

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