

2015 CSAS Meeting



May 5-7, 2015
The Westin Ottawa
Ottawa, Ontario, Canada

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TABLE OF CONTENTS

Executive Committee.....	1
General Meeting Information	3
Registration	3
Meeting Location.....	3
Transportation	3
Important Numbers	3
Presentation Guidelines	3
Sponsors.....	4
Schedule of Events.....	5
Scientific Program.....	6

GENERAL MEETING INFORMATION

Registration

The registration desk will be located in the Governor General III foyer, Level 4. Pre-registration packets and onsite registration will be available during the hours listed below.

Tuesday, May 5	6:30 pm – 9:00 pm
Wednesday, May 6	7:30 am – 6:00 pm
Thursday, May 7	6:30 am – 5:00 pm

Meeting Location

The conference venue is the The Westin Ottawa, located in Ottawa, Ontario. As the country's capital city, Ottawa is best known as being home to the seat of federal government. But behind that façade lies an architecturally stunning city with a unique combination of urban and rural experiences.

Transportation

Ground transportation options available from the Ottawa International Airport and The Westin Ottawa include:

- Public Transit <http://www.octranspo1.com/splash>
- Limousine Service 1-888-901-6222
- Taxi Service <http://ottawa-airport-taxi.com/index.php/en/>

Important Phone Numbers

The Westin Ottawa	(613) 560-7000
Ottawa International Airport	(613) 248-2125

Important Addresses

Ottawa International Airport	The Westin Ottawa
1000 Airport Parkway	11 Colonel By Drive
Ottawa, ON K1V 9B4	Ottawa, ON K1N 9H4

Presentation Guidelines

Oral

Only PowerPoint presentations will be accommodated (i.e., no slides, no overheads, no alternative programs allowed).

1. All session rooms will have Master PCs running PowerPoint 2007/2010 in Windows 7.
2. Individual laptops may not be connected to the projectors in the session rooms.

3. Oral presenters must upload their presentation no later than one hour prior to the start of their session. The upload computer will be available at the registration area starting 2 hours prior to the first session of the day. Presentations for upload should be on flash drives.

Poster

Posters should be placed on the appropriate poster board by 7:00 am Thursday, May 7 and remain up until 5 pm. Poster presenters should be at their poster for presentation from 7:30 am – 9:00 am on Thursday, May 7. Posters may be attached to the board using tacks or velcro. Posters may be a maximum size of 44 in x 45 in (w x h).

SPONSORS

American Society of Animal Science

ASAS Foundation

SCHEDULE OF EVENTS

All events will meet at the Westin – Governor General III, Level 4
(unless otherwise noted)

TUESDAY, MAY 05, 2015

1:00 – 5:00 pm Annual Executive Meeting – *Alberta, Level 4*

WEDNESDAY, MAY 06, 2015

8:00 – 8:45 am Coffee
8:45 – 9:00 am Opening Remarks
9:00 – 10:00 am Farm-to-Fork Food Safety Symposium I
10:30 – 11:00 am Coffee Break
11:00 am – 12:00 pm Farm-to-Fork Food Safety Symposium II
12:00 – 1:30 pm Annual General Meeting & Lunch
1:30 – 2:30 pm Farm-to-Fork Food Safety Symposium III
2:30 – 2:45 pm Q&A with speakers
2:45 – 3:15 pm Coffee Break
3:15 – 4:15 pm Graduate Student Oral Competition Session I
8:00 – 11:00 pm Mix and Mingle (TBD)

THURSDAY, MAY 07, 2015

7:30 – 9:00 am Poster Presentations – *Ballroom Foyer Level 4*
9:15 – 10:15 am Graduate Student Oral Competition Session II
10:15 – 10:45 am Coffee Break
10:45 am – 12:15 pm Graduate Student Oral Competition Session III
12:15 – 1:30 pm Lunch Break & Posters
1:30 – 3:00 pm Oral Presentations
3:00 – 3:30 pm Coffee Break
6:30 – 11:00 pm Reception and Banquet Dinner

SCIENTIFIC SESSIONS

Wednesday, May 6, 2015

Room: Governor General III

SYMPOSIA

- 8:45 AM** **Opening Remarks**
Farm-to-Fork Food Safety Symposium I
Chair: Trevor Alexander, Agriculture and Agri-Food Canada
- 9:00 AM** **Defining the role of *Escherichia coli* O157:H7 super-shedders in on-farm food safety and pathogen dissemination.**
T. A. McAllister, Agriculture and Agri-Food Canada, Lethbridge, AB, Canada
Farm-to-Fork Food Safety Symposium II
Chair: Trevor Alexander, Agriculture and Agri-Food Canada
- 11:00 AM** **Prevalence and characterization of Verotoxin-producing *Escherichia coli* in the Canadian agri-food sector.**
R. Johnson, Public Health Agency of Canada, Ottawa, ON, Canada*
- 12:00 PM** **Annual General Meeting & Lunch**
Farm-to-Fork Food Safety Symposium III
Chair: Trevor Alexander, Agriculture and Agri-Food Canada
- 1:30 PM** **Title to come**
L. Goodridge, McGill University, Montreal, QC, Canada*
- 2:30 PM** **Question and Answer with Symposia Speakers**

GRADUATE STUDENT ORAL COMPETITION SESSION I

**Chair: Kees Plaizier, Department of Animal Science,
University of Manitoba**

- 3:15 PM 001-GS Evaluation of blood plasma metabolites reflects presence or absence of liver abscess in beef cattle.**
*A. G. C. Macdonald*¹, J. J. M. Kim¹, S. Lam¹, J. P. Cant¹, S. Bourgon², S. P. Miller³, and Y. R. Montanholi²,
¹Department of Animal and Poultry Science, University of Guelph, Guelph, ON, Canada, ²Department of Plant and Animal Sciences, Dalhousie University, Truro, NS, Canada, ³AgResearch, Invermay, New Zealand*
- 3:30 PM 002-GS Storage characteristics, nutritive value and in vivo digestibility of large round bales of alfalfa hay treated with fibrolytic enzymes.**
I. A. Aboagye^{1,2}, J. P. Lynch^{2,3}, J. S. Church¹, J. Baah^{2,4}, and K. A. Beauchemin²,
¹Thompson Rivers University, Kamloops, BC, Canada, ²Agriculture and Agri-Food Canada, Lethbridge Research Centre, Lethbridge, AB, Canada, ³Teagasc Crops Research, Oak Park, Carlow, Ireland, ⁴Best Environmental Technologies Inc., Edmonton, AB, Canada*
- 3:45 PM 003-GS Associations of blood hormones and metabolites with age, feed efficiency and fatness in young beef bulls.**
*S. L. Bourgon*¹, S. P. Miller^{2,3}, F. S. Schenkel³, M. Diel de Amorim⁴, and Y. R. Montanholi^{1,3},
¹Department of Plant and Animal Sciences, Dalhousie University, Truro, NS, Canada, ²AgResearch, Invermay, Mosgiel, New Zealand, ³Centre for Genetic Improvement of Livestock, University of Guelph, Guelph, ON, Canada, ⁴Western College of Veterinary Medicine, University of Saskatchewan, Saskatoon, SK, Canada*
- 4:00 PM 004-GS Evolutionary correlations between individual genes, partial and full-coding regions of the Aleutian mink disease virus genome.**
F. Kharazyan and A. H. Farid, Department of Plant and Animal Sciences, Dalhousie University Faculty of Agriculture, Truro, NS, Canada*

POSTER PRESENTATIONS

Thursday, May 7, 2015

Ballroom Foyer

Presentation Time: 7:30 AM – 9:00 AM

*Posters should be placed on poster boards by 7:00 PM
and remain up until 5:00 PM*

ANIMAL HEALTH AND BEHAVIOR

- P01-GS** **Investigating the source of the recent aleutian mink disease virus outbreak in Nova Scotia using phylogenetic analysis.**
*F. Kharazyan**, *A. H. Farid*, and *P. P. Rupasinghe*,
Department of Plant and Animal Sciences, Dalhousie University Faculty of Agriculture, Truro, NS, Canada
- P02-GS** **The effect of two direct fed microbials on calf's performance and oxidative burst capacity during the early period of growth.**
B. Fomenky^{1,2}*, *J. Chiquette¹*, *P. Y. Chouinard²*, and *M. Ibeagha-Awemu¹*, *¹Agriculture and Agri-Food Canada, Dairy and Swine Research and Development Centre, Sherbrooke, QC, Canada, ²Département des sciences animales, Université Laval, Québec, QC, Canada*
- P03** **Ameliorative effects of *Bacillus subtilis* ANSB060 on aflatoxicosis in broilers.**
*L. Zhao**, *China Agricultural University, BEIJING, China*
- P04** **Motility of Boer buck Spermatozoa stored fresh for 72 hours.**
*O. A. Ajao**, *UNIVERSITY OF VENDA, THOHOYANDOU, South Africa*
- P05** **Probiotics administration enhances calves' lymphoproliferation responses to vaccination during the early weeks of growth.**
*M. Ibeagha-Awemu**, *F. Beaudoin*, *J. Chiquette*, *G. Talbot*, *N. Bissonnette*, and *M. Lessard*, *Agriculture and Agri-Food Canada, Dairy and Swine Research and Development Centre, Sherbrooke, QC, Canada*

P06

Identification of the anatomical location on the pig body ensuring the most efficient use of infrared thermography for the assessment of body temperature variation in response to physical stress.
*L. Moura Rocha^{1,2,3}, L. Saucier^{*1,3}, X. Maldague¹, J. Fleuret¹, and L. Faucitano^{1,2}, ¹Université Laval, Quebec City, QC, Canada, ²Agriculture and Agri-Food Canada, Sherbrooke, QC, Canada, ³Institute of nutrition and fonctionnal foods, Quebec City, QC, Canada*

BREEDING AND GENETICS

P07-GS

isomiR selection and cross detection will affect accurate quantification of miRNA expression.
R. Li^{}, P. L. Dudemaine, and E. M. Ibeagha-Awemu, Agriculture and Agri-Food Canada, Dairy and Swine Research and Development Centre, Sherbrooke, QC, Canada*

P08-GS

Genome-wide LD estimates in the Frizarta dairy sheep of Greece.
*A. Kominakis^{*1}, G. Antonakos², A. Saridaki³, G. Tsiamis³, and K. Bourtzis³, ¹Department of Animal Science & Aquaculture, Agricultural University of Athens, Athens, Greece, ²Livestock Association of Western Greece, Agrinio, Greece, ³Department of Environmental and Natural Resources Management, University of Patras, Agrinio, Greece*

P09

Genetic association of Johne's disease susceptible cows through transcriptome profiling of MAP infected macrophages.
*O. Ariel^{*1,2}, N. Gévry², G. Fecteau³, E. M. Ibeagha-Awemu⁴, N. Karrow⁵, and N. Bissonnette^{2,4}, ¹Dairy and Swine Research and Development Centre, Agriculture and Agri-Food Canada, Sherbrooke, QC, Canada, ²Department of biology, Université de Sherbrooke, Sherbrooke, QC, Canada, ³Faculté de médecine vétérinaire, Université de Montréal, Saint-Hyacinthe, QC, Canada, ⁴Agriculture and Agri-Food Canada, Dairy and Swine Research and Development Centre, Sherbrooke, QC, Canada, ⁵Department of Animal and Poultry Science, University of Guelph, Guelph, ON, Canada*

- P10** **Genome-wide association study of milk protein percent in Canadian Holstein cows.**
*E. M. Ibeagha-Awemu^{*1}, S. O. Peters², I. G. Imumorin³, and X. Zhao⁴, ¹Agriculture and Agri-Food Canada, Dairy and Swine Research and Development Centre, Sherbrooke, QC, Canada, ²Berry College, Mount Berry, GA, ³Cornell University, Ithaca, NY, ⁴McGill University, St Ann De Bell, PQ, Canada*
- P11** **Mammary gland transcriptome profiling of cows fed safflower oil reveals a potential modulatory role for SREBP1 in fatty acid synthesis.**
*E. M. Ibeagha-Awemu^{*1}, R. Li¹, P. L. Dudemaine¹, A. A. Ammah¹, N. Bissonnette¹, C. Benchaar¹, and X. Zhao², ¹Agriculture and Agri-Food Canada, Dairy and Swine Research and Development Centre, Sherbrooke, QC, Canada, ²McGill University, St Ann De Bell, PQ, Canada*

CARCASS QUALITY AND CARCASS EVALUATION

- P12-GS** **Understanding the quality of atypical dark cutting beef.**
*S. Mahmood^{*1}, B. C. Roy¹, J. L. Aalhus², and H. L. Bruce¹, ¹Department of Agricultural, Food and Nutritional Science, University of Alberta, Edmonton, AB, Canada, ²Agriculture and Agri-Food Canada, Lacombe, AB, Canada*

FOOD SAFETY

- P13** **Characterization of seven shiga toxin-producing *Escherichia coli* serogroups in a closed herd of beef cattle from weaning to feedlot placement.**
*J. Hallewell^{*1}, T. Reuter², K. Stanford², E. Topp³, and T. W. Alexander⁴, ¹Agriculture and Agri-Food Canada, Lethbridge Research Centre, Lethbridge, AB, Canada, ²Alberta Agriculture and Rural Development, Lethbridge, AB, Canada, ³Agriculture and Agri-Food Canada, London, ON, Canada, ⁴Agriculture and Agri-Food Canada, Lethbridge, AB, Canada*
- P14-GS** **Competition among pathogenic *Escherichia Coli* during enrichment.**
C. Conrad^{}, University of Lethbridge, Lethbridge, AB, Canada; Agriculture and Agri-Food Canada, Lethbridge Research Centre, Lethbridge, AB, Canada*

FOODS AND FOOD PRODUCTS

- P15** **Extraction and characterization of gelatin from bovine lung.**
*B. C. Roy**, *D. A. Omana*, and *H. L. Bruce*, *Department of Agricultural, Food and Nutritional Science, University of Alberta, Edmonton, AB, Canada*
- P16** **Sensory evaluation of cooked pork meat (M. biceps femoris) with and without ractopamine-HCl by non-trained judges associated to age and gender.**
M. Juarez_Silva^{*1}, *S. Carlin*^{1,2}, *D. Martinez_Gomez*³, *A. Verdugo-Rodríguez*⁴, *J. Martinez_Alvarez*², and *F. Rebollo*⁵, ¹*INSTITUTO NACIONAL DE CIENCIAS MEDICAS Y NUTRICION SALVADOR ZUBIRAN (Animal Nutrition Department), Mexico City, Mexico,* ²*PAFFA S.A. de C.V.- Research and Development Department,, ATLAUTLA, STATE OF MEXICO, Mexico,* ³*Universidad Autónoma Metropolitana (UAM), Campus Xochimilco, Laboratory of Agricultural Microbiology., Mexico City, Mexico,* ⁴*Universidad Nacional Autónoma de México [UNAM], Facultad de Medicina Veterinaria y Zootecnia [FMVZ], Microbiology and Immunology Department, Laboratory of Molecular Microbiology., Mexico City, Mexico,* ⁵*PAFFA S.A. de C.V.- Research and Development Department,, ATLANTA, GA*

FORAGES AND PASTURES

- P17** **Pasture management and strategic supplementation on beef cattle productivity grazing *Brachiaria brizantha* pasture.**
J. F. W. Koscheck^{*1}, *L. Maneck Delevatti*¹, *A. C. Ferrari*¹, *C. J. Mousquer*², *W. L. D. Silva*¹, *A. L. D. S. Valente*¹, *G. D. O. Rincão*¹, *B. A. Gottardi*¹, *R. A. Gasparin*¹, and *R. A. Reis*¹, ¹*UNESP, Jaboticabal, Brazil,* ²*UFMT, Cuiabá, Brazil*

- P18** **Impact of the genetic potential for RFI and diet fed during early- to mid-gestation in beef heifers on carcass characteristics of their castrated male offspring.**
*S. J. Meale^{*1}, F. Paradis^{1,2}, M. Juarez³, J. L. Aalhus³, C. Li^{1,2}, H. Block³, M. G. Colazo⁴, C. Straathof¹, B. Yaremci⁴, H. L. Bruce⁵, and C. Fitzsimmons^{1,2}, ¹Department of Agriculture, Food and Nutritional Science, University of Alberta, Edmonton, AB, Canada, ²Agriculture and Agri-Food Canada, Edmonton, AB, Canada, ³Agriculture and Agri-Food Canada, Lacombe, AB, Canada, ⁴Alberta Agriculture and Rural Development, Edmonton, AB, Canada, ⁵Department of Agricultural, Food and Nutritional Science, University of Alberta, Edmonton, AB, Canada*
- P19** **A comparison of energy content of pregnant uterus and mammary gland in goats and sheep throughout pregnancy.**
*C. J. Härter^{*1}, J. L. Ellis (St-Pierre)², J. France³, and I. A. M. A. Teixeira⁴, ¹UNESP, Univ Estadual Paulista, Department of Animal Science, Jaboticabal, Brazil, ²Centre for Nutrition Modelling, Animal and Poultry Science, University of Guelph, Guelph, ON, Canada, ³University of Guelph, Guelph, ON, Canada, ⁴UNESP, Univ Estadual Paulista, Department of Animal Science, Jaboticabal, SP, Brazil*
- P20** **Protein content of pregnant uterus and mammary gland of goats and sheep throughout pregnancy.**
*C. J. Härter^{*1}, J. L. Ellis (St-Pierre)², J. France³, and I. A. M. A. Teixeira⁴, ¹UNESP, Univ Estadual Paulista, Department of Animal Science, Jaboticabal, Brazil, ²Centre for Nutrition Modelling, Animal and Poultry Science, University of Guelph, Guelph, ON, Canada, ³University of Guelph, Guelph, ON, Canada, ⁴UNESP, Univ Estadual Paulista, Department of Animal Science, Jaboticabal, SP, Brazil*

MEAT SCIENCE AND MUSCLE BIOLOGY

- P21** **Effects of Dietary Alpha-lipoic Acid and Acetyl-L-carnitine on Growth Performance and Meat Quality in Arbor Acres Broilers.**
*L. Zhao**, China Agricultural University, BEIJING, China
- P22-GS** **Carnosine levels in the porcine longissimus muscle and its association with meat quality traits and carnosine-related genes expression.**
J. D'Astous-Page¹, C. Gariépy², R. Blouin¹, S. Cliche², B. Sullivan³, and M. F. Palin¹, ¹Université de Sherbrooke, Sherbrooke, QC, Canada, ²Agriculture and Agri-Food Canada, St-Hyacinthe, QC, Canada, ³Canadian Centre for Swine Improvement, Ottawa, ON, Canada, ⁴Agriculture and Agri-Food Canada, Sherbrooke, QC, Canada

NONRUMINANT NUTRITION

- P23** **Effect of Biscuit waste on growth performance of finishing broilers.**
O. A. Anjola^{}, M. A. Onigemo¹, L. A. Tijani¹, K. K. Agbalaya¹, P. F. Agbaya¹, F. A. Fakunmoju¹, and B. F. Odenike²*, ¹Department of Animal Production Technology, Lagos State Polytechnic, Ikorodu, Nigeria, ²Lagos State Polytechnic, Ikorodu, Nigeria
- P24** **Effect of feeding low protein diets formulated with synthetic amino acids on the production performance and of laying hens.**
*J. L. MacIsaac¹, D. M. Anderson^{*2}, and B. M. Rathgeber²*, ¹Atlantic Poultry Research Institute, Truro, NS, Canada, ²Dalhousie University, Faculty of Agriculture, Truro, NS, Canada
- P25** **The effect of high mineral content in water on mineral balance and retention of laying hens.**
*D. S. Ariyamuni and D. M. Anderson**, Dalhousie University, Faculty of Agriculture, Truro, NS, Canada
- P26** **The Effect of Turmeric on Egg Yolk Pigmentation and Production Performance of Laying Hens.**
*H. DeGruchy and D. M. Anderson**, Dalhousie University, Faculty of Agriculture, Truro, NS, Canada

- P27** **The effect of Tasco® and enzyme supplementation on the growth performance of broiler chickens fed wheat-based diets.**
*R. Lowe¹, J. L. MacIsaac², and D. M. Anderson*¹,
¹Dalhousie University, Faculty of Agriculture, Truro, NS, Canada, ²Atlantic Poultry Research Institute, Truro, NS, Canada*
- P28** **Effects of oil levels, heat and enzymes on the nutritive value of mechanically-pressed camelina (*Camelina sativa*) meal in 21 day old broiler chickens.**
B. Y. Rajapakse and D. M. Anderson, Dalhousie University, Faculty of Agriculture, Truro, NS, Canada*
- P29** **The effect of essential oils and organic acids as alternatives to antibiotic growth promoters in broiler chickens housed under good and poor environmental conditions.**
*D. M. Anderson*¹, L. Cook¹, and J. L. MacIsaac²,
¹Dalhousie University, Faculty of Agriculture, Truro, NS, Canada, ²Atlantic Poultry Research Institute, Truro, NS, Canada*
- P30** **Effect of age on apparent metabolizable energy (amen) of yellow and black full fat canola seeds grown in different locations in broilers.**
*D. M. Anderson*¹, B. Jayaraman², and J. L. MacIsaac³,
¹Dalhousie University, Faculty of Agriculture, Truro, NS, Canada, ²University of Manitoba, Winnipeg, MB, Canada, ³Atlantic Poultry Research Institute, Truro, NS, Canada*
- P31** **Influence of calcium source and fat level, on broilers performance and nutrients utilization.**
M. Michael, Cairo University, Cairo, Egypt*

PHYSIOLOGY AND ENDOCRINOLOGY

- P32** **Nychthermal rhythm of dromedary camel's body temperature using two measurement techniques.**
*A. Al-Haidary*¹, K. Abdoun², A. Okab¹, and E. Samara²,
¹Departments of Animal Production, College of Food and Agriculture Sciences, King Saud University, Riyadh, Saudi Arabia, ²Department of Animal Production, College of Food and Agriculture Sciences, King Saud University, Al-Rayidh, Saudi Arabia*

P33-GS

Blood cell parameters are associated with feed efficiency in replacement beef heifers.

E. M. Crane^{*1}, *J. C. Munro*¹, *S. L. Bourgon*^{1,2}, *K. C. Swanson*³, *A. H. Fredeen*¹, and *Y. R. Montanholi*^{1,4},
¹*Department of Plant and Animal Sciences, Faculty of Agriculture, Dalhousie University, Truro, NS, Canada,*
²*Department of Plant and Animal Sciences, Dalhousie University, Truro, NS, Canada,* ³*North Dakota State University, Fargo, ND,* ⁴*Department of Animal and Poultry Science, University of Guelph, Guelph, ON, Canada*

PRODUCTION, MANAGEMENT AND ENVIRONMENT

P34

A typological characterization of Canadian beef cattle farms using multivariate analyses.

A. W. Alemu^{*1}, *B. D. Amiro*¹, *S. Bittman*², *D. MacDonald*³, and *K. H. Ominski*¹, ¹*University of Manitoba, Winnipeg, MB, Canada,* ²*Agriculture and Agri-Food Canada, Agassiz, BC, Canada,* ³*Environment Canada, Gatineau, QC, Canada*

RUMINANT NUTRITION AND MICROBIOLOGY

P35-GS

Effect of lactic acid bacteria and *Bacillus subtilis* on the fiber digestibility and ruminal fermentation of beef cattle finished in feedlot.

C. H. Silveira Rabelo^{*1}, *A. L. D. S. Valente*², *R. P. Barbero*¹, *E. C. Lara*¹, *F. C. Basso*¹, and *R. A. Reis*²,
¹*Unesp, Jaboticabal, Brazil,* ²*UNESP, Jaboticabal, Brazil*

P36

Effect of *Lactobacillus buchneri* and different ruminal environment on the in vitro corn silage degradability and methane estimation.

C. H. Silveira Rabelo^{*1}, *F. C. Basso*¹, *E. C. Lara*¹, *L. G. D. O. Jorge*¹, *C. J. Härter*², and *R. A. Reis*³, ¹*Unesp, Jaboticabal, Brazil,* ²*UNESP, Univ Estadual Paulista, Department of Animal Science, Jaboticabal, Brazil,* ³*UNESP, Jaboticabal, Brazil*

- P37** **Viability of the direct-fed *Saccharomyces cerevisiae* boulardii in the digestive tract of calves.**
*J. Chiquette¹, L. Veilleux¹, J. Brochu¹, F. Beaudoin¹, B. Fomenky^{*1,2}, and M. Ibeagha-Awemu¹, ¹Agriculture and Agri-Food Canada, Dairy and Swine Research and Development Centre, Sherbrooke, QC, Canada, ²Department of Animal Science, Laval University, Québec, QC, Canada*
- P38-GS** **Effects of 3-nitrooxypropanol and monensin on methane production using a background diet in Rusitec fermenters.**
*A. Romero-Perez^{*1,2}, E. K. Okine², L. L. Guan², S. M. Duval³, M. Kindermann⁴, and K. A. Beauchemin¹, ¹Agriculture and Agri-Food Canada, Lethbridge Research Centre, Lethbridge, AB, Canada, ²Department of Agricultural, Food and Nutritional Science, University of Alberta, Edmonton, AB, Canada, ³DSM Nutritional Products France, Research Centre for Animal Nutrition and Health, Saint Louis Cedex, France, ⁴DSM Nutritional Products, Basel, Switzerland*
- P39** **Effect of supplementing Tasco® to dairy calves in milk and calf starter.**
*D. M. Anderson^{*1}, J. L. MacIsaac², and B. Strehler¹, ¹Dalhousie University, Faculty of Agriculture, Truro, NS, Canada, ²Atlantic Poultry Research Institute, Truro, NS, Canada*
- P40-GS** **Effects of dietary supplementation with safflower oil on milk components and fatty acid composition of Canadian Holstein cows.**
*A. Ammah^{*1,2}, F. Beaudoin¹, L. Marier¹, C. Benchaar¹, N. Bissonnette¹, N. Gévry³, and E. M. Ibeagha-Awemu¹, ¹Agriculture and Agri-Food Canada, Dairy and Swine Research and Development Centre, Sherbrooke, QC, Canada, ²Department of Biology, University of Sherbrooke, Sherbrooke, QC, Canada, ³Department of biology, Université de Sherbrooke, Sherbrooke, QC, Canada*
- P41** **Aluminium, iron and manganese contents of dairy cow feces in Manitoba.**
J. C. Plaizier^{}, K. H. Ominski, and E. J. McGeough, University of Manitoba, Winnipeg, MB, Canada*

GRADUATE STUDENT ORAL COMPETITIONS

Thursday, May 7, 2015

Chair: Filippo Miglior, Centre for Genetic Improvement
of Livestock, University of Guelph

Room: Governor General III

GRADUATE STUDENT ORAL COMPETITION SESSION II

- 9:15 AM 005-GS** **The effect of lysozyme applied on hatching eggs to reduce eggshell microbial load without jeopardizing hatching performance.**
*X. Li**, *D. M. Anderson*, and *B. M. Rathgeber*, *Dalhousie University, Faculty of Agriculture, Truro, NS, Canada*
- 9:30 AM 006-GS** **Effects and mode of action of red seaweed (*Palmaria palmata*) supplemented diets fed to broiler chickens raised under normal or stressed conditions (environmental stress and dirty litter).**
*H. Karimi**¹, *D. M. Anderson*¹, *B. M. Rathgeber*¹, and *F. D. Evans*², ¹*Dalhousie University, Faculty of Agriculture, Truro, NS, Canada*, ²*Acadian Seaplants Limited, Dartmouth, NS, Canada*
- 9:45 AM 007-GS** **Heart rate in response to an acute stressor and additional cardiovascular parameters as indicators of feed efficiency in beef cattle.**
*J. C. Munro*¹, *P. W. Physick-Sheard*², *A. P. Fontoura*¹, *S. L. Bourgon*¹, *F. S. Schenkel*³, *T. Tennesen*¹, and *Y. R. Montanholi*^{1,3}, ¹*Department of Plant and Animal Sciences, Faculty of Agriculture, Dalhousie University, Truro, NS, Canada*, ²*Ontario Veterinary College, University of Guelph, Guelph, ON, Canada*, ³*Centre for Genetic Improvement of Livestock, University of Guelph, Guelph, ON, Canada*
- 10:00 AM 008-GS** **Use of mustard oil to inhibit the production of mycotoxins in corn contaminated with fungi.**
*B. Ludvig Tracz**, *Giuseppe Meca*, *Jordi Mañes*, *Renata Ernlund Freitas de Macedo*, *Fernando Bittencourt Luciano*, *School of Agricultural Sciences and Veterinary Medicine, Pontifícia Universidade Católica do Paraná, Sao Jose, Brazil*

GRADUATE STUDENT ORAL COMPETITION SESSION III

- 10:45 AM 009-GS Continuous assessment of rumen pH and temperature in beef cattle with known feed efficiency.**
*S. Lam^{*1}, S. P. Miller^{1,2}, J. C. Munro³, T. R. Caldwell¹, J. P. Cant¹, M. A. Steele⁴, and Y. R. Montanholi^{1,3},*
¹*Department of Animal and Poultry Science, University of Guelph, Guelph, ON, Canada,* ²*Invermay Agriculture Centre, AgResearch, Mosgiel, New Zealand,* ³*Department of Plant and Animal Sciences, Faculty of Agriculture, Dalhousie University, Truro, NS, Canada,* ⁴*Department of Agricultural, Food, and Nutritional Science, University of Alberta, Edmonton, AB, Canada*
- 11:00 AM 010-GS Vitality and Morphology of Boer buck Spermatozoa stored fresh for 72 hours.**
O. A. Ajao^{}, University of Venda, Thohoyandou, South Africa*
- 11:15 AM 011-GS A comparison of live versus video Stall Lameness Scoring for tie-stall dairies.**
*S. Palacio^{*1}, L. Peignier¹, S. Adam², R. Bergeron¹, D. Pellerin³, A. M. De Passille⁴, J. Rushen⁵, D. B. Haley⁶, T. J. DeVries⁶, and E. Vasseur¹,* ¹*University of Guelph Alfred Campus, Alfred, ON, Canada,* ²*Valacta, Ste-Anne-de-Bellevue, QC, Canada,* ³*Université Laval, Québec, QC, Canada,* ⁴*UBC Dairy Education Research Centre, University of British Columbia, Agassiz, BC, Canada,* ⁵*Faculty of Land and Food Systems - University of British Columbia, Vancouver, BC, Canada,* ⁶*University of Guelph, Guelph, ON, Canada*
- 11:30 AM 012-GS Enteric methane (CH₄) produced by beef cattle as affected by dietary crude protein of forage diets fed during extreme cold.**
K. Blair^{}, K. H. Ominski, M. Undi, and K. M. Wittenberg,* *University of Manitoba, Winnipeg, MB, Canada*
- 11:45 AM 013-GS Short-term effects of a nucleotide-rich yeast extract on growth performance, immunity, and colonic and cecal bacteria of weaner pigs raised under a sanitary challenge.**
*S. M. Waititu^{*1}, M. Nyachoti¹, F. Yin¹, R. Patterson², A. Yitbarek³, and J. C. Rodriguez-Lecompte⁴,* ¹*University of Manitoba, Winnipeg, MB, Canada,* ²*Canadian Biosystems, Calgary, AB, Canada,* ³*University of Guelph, Guelph, ON, Canada,* ⁴*University of Prince Edward Island, Charlottetown, PE, Canada*

- 12:00 PM 014-GS Feces of feedlot cattle contain a diversity of bacteriophages that lyse non-O157 Shiga toxin-producing Escherichia coli.**
J. Wang^{1,2}, Y. D. Niu^{3}, J. Chen¹, H. Anany^{4,5}, H-W Ackermann⁶, R. P. Johnson⁷, C. N. Ateba⁸, K. Stanford², T. A. McAllister³.*
¹ College of Veterinary Medicine, South China Agricultural University, Guangzhou, Guangdong, P.R. China; ² Alberta Agriculture and Rural Development, Lethbridge, AB, Canada T1J 4V6; ³ Agriculture and Agri-Food Canada, Lethbridge, AB; ⁴ Department of Food Science, Canadian Research Institute for Food Safety, Guelph, ON; ⁵ Department of Microbiology, Ain Shams University, Cairo, Egypt; ⁶ Département de microbiologie, Faculté de médecine, Université Laval, Québec, QC; ⁷ Laboratory for Foodborne Zoonoses, Public Health Agency of Canada, Guelph, ON; ⁸ Department of Biological Sciences, North West University-Mafikeng Campus, North West, Mmabatho, South Africa

ORAL PRESENTATIONS

Thursday, May 7, 2015

**Chair: Tim Reuter, Alberta Agriculture and Rural Development
Governor General III**

ANIMAL HEALTH AND BEHAVIOR

- 1:30 PM 015 Accuracy and inter-laboratory consistency of enzyme-linked immunosorbent assays for quantification of antibodies against the Aleutian mink disease virus.**
*A. H. Farid^{*1} and P. P. Rupasinghe², ¹Dalhousie University Faculty of Agriculture, Truro, NS, Canada, ²Department of Plant and Animal Sciences, Dalhousie University Faculty of Agriculture, Truro, NS, Canada*

- 1:45 PM 016** **Effect of long dry periods on calcium content on cattle without supplements in a semi-arid areas in the North West Province of South Africa.**
B.G Mokolopi-Kgobe^{1} and D.E Beighle², ¹Department of Agriculture and Animal Health, College of Agriculture and Environmental Services, University of South Africa, Science Campus, ²Under appointment by the International Mission Board, S.B.C. on loan to Department of Animal Health, Faculty of Agriculture, Science and Technology, North West University, Mafikeng Campus, Private Bag X2046, Mmabatho, 2735 South Africa (until 2008) University of South Africa, Johannesburg, South Africa*
- 2:00 PM 017** **Welfare of horses transported to slaughter in Canada: Assessment of welfare and journey risk factors.**
M. S. Cockram, R. C. Roy, and I. R. Dohoo, University of Prince Edward Island, Charlottetown, PE, Canada*

BREEDING AND GENETICS

- 2:15 PM 018** **Heritability estimates and accuracy of predicting direct genomic breeding values for fatty acid composition in beef cattle.**
*C. Li^{*1,2}, C. Ekine-Dzivenu³, L. Chen³, M. Vinsky⁴, J. A. Basarab⁵, J. L. Aalhus¹, M. E. R. Dugan⁴, and C. Fitzsimmons^{3,4}, ¹Agriculture and Agri-Food Canada, Lacombe, AB, Canada, ²Department of Agriculture, Food and Nutritional Science, University of Alberta, Edmonton, AB, Canada, ³Department of Agricultural, Food and Nutritional Science, University of Alberta, Edmonton, AB, Canada, ⁴Agriculture and Agri-Food Canada, Lacombe Research Center, Lacombe, AB, Canada, ⁵Alberta Agriculture and Rural Development, Lacombe, AB, Canada*

NONRUMINANT NUTRITION

- 2:30 PM 019** **The effect of dietary lysozyme on growth performance and intestinal microbiota of broiler chickens in each period of the growth cycle.**
*M. Gong^{*1}, D. M. Anderson¹, B. M. Rathgeber¹, and J. L. MacIsaac², ¹Dalhousie University, Faculty of Agriculture, Truro, NS, Canada, ²Atlantic Poultry Research Institute, Truro, NS, Canada*
- 2:45 PM 020** **Effects of moringa oleifera aqueous leaf extract on semen characteristics, fertility and haematological indices of dominant black breeder cocks.**
*K. K. Agbalaya¹, O. A. Anjola^{*1}, S. A. Olurode², M. A. Onigemo¹, L. A. Tijani¹, P. F. Agbaye¹, F. A. Fakunmoju¹, and O. E. Olaoluwa¹, ¹Department of Animal Production Technology, Lagos State Polytechnic, Ikorodu, Nigeria, ²Department of Veterinary Public Health and Reproduction, Federal University of Agriculture, Abeokuta, Nigeria*

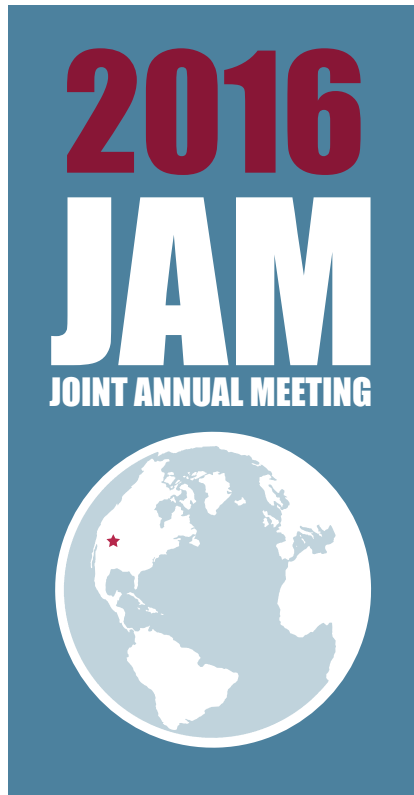
PRODUCTION, MANAGEMENT AND ENVIRONMENT

- 3:00 PM 021** **Sustainable livestock production system in the Pantanal region - Mato Grosso do Sul, Brazil.**
*J. C. De Souza^{*1}, R. M. Silva², R. Jardim³, and S. Markwith⁴, ¹UFMS - Federal University of Mato Grosso do Sul, Paranaíba, MS, Brazil, ²UFMS - Federal University of Mato Grosso do Sul, Campo Grande, MS, Brazil, ³Fazenda Bodoquena, Bodoquena, Brazil, ⁴Florida Atlantic University, Boca Raton, FL*

NOTES

Future Meeting

**2016 Joint Annual Meeting
ASAS-ADSA-CSAS-WSASAS**



July 19 - 23, 2016

**Salt Palace Convention Center
Salt Lake City, Utah**