Separate Booth #

- Impact of Concentrate Allowance on the Behavior and Production of Dairy Cows Milked in a Free Traffic Automated Milking System. A.J. Schwankel1, K.M. Dancy2, G.B. Penner2 and T.J. DeVries1. 1Department of Animal Biosciences, University of Guelph, 2Department of Animal and Poultry Science, University of Saskatchewan. STUDENT PRESENTATION

- The Effects of Neomycin in Milk Replacer on the Health and Performance of Dairy Calves, L. N. Buss1, T. T. Vohe1, L. B. Cangiante1, A. Keen1, D. L. Renaud1, L. L. Guan1, M. A. Steele1. 1Department of Animal Biosciences, University of Guelph, 2Mapleview Ag. Ltd., Mapleton, ON, 3Department of Population Medicine, University of Guelph, 4Department of Agricultural, Food, and Nutritional Science, University of Alberta. E-mail:masteele@uoguelph.ca

- Effect of dietary Selenium source on animal performance during immune challenge in lactating Holstein cows. K.M. Cruickshank and M.A. Steele. Department of Animal Biosciences, University of Guelph. Email: masteele@uoguelph.ca

- Associations between herd management, barn design, lameness, and production in farms with robotic milking systems. M.T.M King1, R.D. Matson1, T.F. Duffield2, D.E. Santschi2, K. Orsel1, E. A Pajor1, G.B. Penner2, T. Mustvangwa1, and T.J. DeVries1. University of Guelph, 2Lactanet, 3University of Calgary, 4University of Saskatchewan. Email: tdevries@uoguelph.ca

- Mental health of dairy farmers using robotic milking systems. M. T. M. King, R. D. Matson, and T. J. DeVries. Dept. of Animal Biosciences, University of Guelph. *Email: mking08@uoguelph.ca

- Herd-level management and housing of Canadian robotic milking herds. R.D. Matson1, M.T.M King1, T.F. Duffield2, D.E. Santschi2, K. Orsel3, E. A Pajor2, G.B. Penner3, T. Mustvangwa4, and T.J. DeVries1. University of Guelph, 2Lactanet, 3University of Calgary, 4University of Saskatchewan. Email: tdevries@uoguelph.ca

- Associations of milk production and quality with management and housing of Canadian robotic milking farms. R.D. Matson1, M.T.M King1, T.F. Duffield2, D.E. Santschi2, K. Orsel1, E. A Pajor1, G.B. Penner2, T. Mustvangwa3, and T.J. DeVries1. University of Guelph, 2Lactanet, 3University of Calgary, 4University of Saskatchewan. Email: tdevries@uoguelph.ca

Booth #34

- Effects of Feeding Hay and Calf Starter as a Mixture or as Separate Components to Holstein Calves on Intake and Growth. L.E. Engeling1, T. Matsuba1, K. Inouchi1, T. Sugino4, M. Oba2, 3Department of Agricultural, Food and Nutritional Science, University of Alberta; 4Dairy Technology Research Institute, Fukushima, Japan. 3Graduate School of Integrated Sciences for Life, Hiroshima University, Japan. STUDENT PRESENTATION

- Heifers with short ano-genital distance conceive sooner and require fewer inseminations. J.E. Carrelli1, M. Gobikrushanth1, M.G. Colazo2 and D.J. Ambrose1,2. 1Department of AFNS, University of Alberta; 2Alberta Agriculture and Forestry, Edmonton. Email: carrelli@ualberta.ca

- How does Low Blood Calcium close to Calving Relate to Health, Production and Reproduction in Dairy Cows? M. Gobikrushanth1, K. Macmillan1 and M.G. Colazo1. 1Alberta Agriculture and Forestry; 2University of Calgary. 3University of Saskatchewan. STUDENT PRESENTATION

- How does the eSense Ear Tag Activity Monitor Perform in Dairy Heifers? K. Macmillan1, M. Gobikrushanth1, G. Plastow2 and M.G. Colazo3. 1Department of AFNS, University of Alberta; 2Alberta Agriculture and Forestry; 3University of Saskatchewan; 4University of Calgary. Email: marcos.colazo@alberta.ca

- Optimizing the Performance of the SCR eSense Activity Monitor in Heifers with Timing of AI. K. Macmillan1, M. Gobikrushanth1, G. Plastow2 and M.G. Colazo3. 1Alberta Agriculture and Forestry; 2University of Calgary; 3University of Saskatchewan. 4Business Analysis of Visual Observation, IRT and Ovsynch as Reproduction Strategies in Alberta Dairies. H.J. Perez Marquez1, E. Goddard1, C. J. Bench1. 1Department of Agriculture, Forestry and Nutritional Science, University of Calgary. 2Department of Agricultural, Food and Nutritional Science, University of Alberta. 3Department of Resource Economics and Environmental Sociology, University of Alberta. Email: perezmar@ualberta.ca

- Ano-genital distance is not affected by the estrous cycle stages in dairy cows. I. Rajesh1, M. Gobikrushanth2, J.E. Carrelli1, D.J. Ambrose1,2. 1Department of AFNS, University of Alberta; 2Alberta Agriculture and Forestry, Edmonton. Email: iswarya@ualberta.ca

- Higher embryo quality and viability in heifers with short ano-genital distance. I. Rajesh1, J.E. Carrelli2, M. Gobikrushanth1, D.J. Ambrose1,2. 1Department of AFNS, University of Alberta; 2Alberta Agriculture and Forestry, Edmonton. Email: iswarya@ualberta.ca

Booth #35

- The Diversity of Bovine Digital Dermatitis Bacteria: How to Work Around the Complexity. Benjamin Caddey, Karin Orsel, Jeroen De Buck. Department of Production Animal HealthUniversity of Calgary. Emails: benjamin.caddey@ucalgary.ca; karin.orsel@ucalgary.ca; idebuck@ucalgary.ca

- Mastitis-related antimicrobial use: Current practices on Canadian dairy farms. E. de Jong1,2, R.D. Matson1, T. F. Duffield2, D.E. Santschi2, K. Orsel1, E. A Pajor1, G.B. Penner2, T. Mustvangwa1, and T.J. DeVries1. 1Department of Animal Biosciences, University of Guelph, 2Lactanet, 3University of Calgary, 4University of Saskatchewan. 5University of Alberta.

- Communication between veterinarians and dairy farmers: Effect of communication training on communication skills and mental wellbeing in veterinarians, farmer satisfaction and herd health outcomes. L. Dorrestijn1, H.W. Barkema2. 1Department of Production Animal Health, University of Calgary. 2Department of Veterinary Clinical Sciences, University of Saskatchewan.

- Developing and testing a live attenuated Johne's disease vaccine as a JD control measure. Razieh EshraghiSamiain1, Jeroen De Buck1, Rakel Arrazuria Fernandez2, Grace Marie Hudson3, 1Department of Production Animal Health, University of Calgary. 2Department of Physiology and Pharmacology, University of Alberta. 3Department of Veterinary Clinical Sciences, University of Saskatchewan. 4Department of Veterinary Clinical Sciences, University of Saskatchewan. 5University of Calgary. 6University of Alberta. Email: razieh.eshraghiSamiain1@ucalgary.ca, rakel.arrazuriafernan2@ucalgary.ca, idebuck1@ucalgary.ca
The voice of dairy farmers: Implementation of ethnographic field methods to address antibiotic use. Jennifer A. Ida and Herman W. Barkema. Dept of Production Animal Health, Faculty of Veterinary Medicine, University of Calgary. Email: Jennifer.ida@ucalgary.ca


Communication is the Key – Mitigating Lameness is Only Possible When Working Together. Marlena Knausë, Cindy L. Adams*, Herman W. Barkema2, Karin Orsel1. 1Dept of Production Animal Health, University of Calgary. 2Dept of Veterinary Clinical and Diagnostic Sciences, University of Calgary. Email: marlena.knausen@usask.ca

Developing Novel Therapeutic Alternatives for Bovine Digital Dermatitis. Priyoshi Lahiri, Makaela Douglas, Karin Orsel, Herman W. Barkema and Eduardo R. Cobo. Dept of Production Animal Health, University of Calgary. Email: priyoshi.lahiri@ucalgary.ca

Effective and economic Johnne’s disease control using new early disease detection assays. Larissa Martins1,2, Jeroen De Buck1, Herman W. Barkema1. 1Department of Production Animal Health, University of Calgary. 2Larissa.martins@ucalgary.ca

Cattle Health Surveillance System (CheSS): Monitoring major infectious diseases and antimicrobial resistance in the Western provinces. Kayley D. McCubbin1, Ellen de Jong1, Jeroen De Buck1, Karin Orsel1, Frank van der Meer1, Herman W. Barkema1. 1Department of Production Animal Health, University of Calgary. Email: kayley.mccubbin@ucalgary.ca

Rapid detection of antibodies against bovine leukemia virus by bacterial surface complementation assay. Sonia Mukherjee, Jeroen De Buck. Department of Production Animal Health, University of Calgary. Emails: sonia.mukherjee@ucalgary.ca; jdebuck@ucalgary.ca

Deep learning improves mastitis detection in automated milking systems. S. Ali Naqvi1, Meagan T.M. King2, Marc Charmant1, Trevor Proctor1, Rob Deardon3 and Herman W. Barkema4. 1Dept of Production Animal Health, University of Calgary. 2Department of Animal Biosciences, University Guelph. 3Email: barkema@ucalgary.ca

Bovine Leukemia Virus control in dairy cows: Effect of selective removal of high-risk animals on herd prevalence. Sulav Shrestha1, Karin Orsel1, Herman Barkema1, Guido van Marle1, Faizal Abdul Careem1, Frank van der Meer1. 1Faculty of Veterinary Medicine, 2Cummimg School of Medicine, University of Calgary. Email: sulav.shrestha1@ucalgary.ca

Motives and barriers to providing outdoor access for dairy cows. A.M.C. Smid1, H.W. Barkema1, D.M. Weary2, and M.A.G. von Keyserlingk2. 1Dept of Production Animal Health, University of Calgary. 2Animal Welfare Program, Dept of Animal Science, University of British Columbia, Vancouver, BC. Email: annemarieke.smid@ucalgary.ca

Accumulating bacteriocin genes in a non-pathogenic Staphylococcus aureus strain to make it protective against bovine mastitis pathogens. Dennis Yu. University of Calgary. Email: Dewu@ucalgary.ca

Booth #36

Early Identification of Cows at Risk of Metritis Using Calving Factors and Activity Monitors. J.W. Bauer1, T.A. Burnett2, A.M.L Madureira1, W. Heuwieser2, R.L.A Cerri1. 1University of British Columbia. 2Clinic for Animal Reproduction, Freie Universität Berlin, Germany. Email: janet.bauer@ubc.ca STUDENT PRESENTATION

Marketing of Male Dairy Calves – Findings and Consensus of an Expert Consultation. Devon J. Wilson1,2, David Fraser1,3, Trevor J. DeVries2, Rob Deardon3 and Herman W. Barkema1,3. 1Department of Animal Science, University of Saskatchewan. 2Department of Animal Health, University of Guelph. 3Email: barkema@ucalgary.ca

Booth #37

Dairy Production Performance Replacing Carc and Silages with Whole Crop Faba Bean Silage in Western Canada. Victor H. Guevara-Oquendo*, David Christensen, John McKinnon, Bunyamin Tar'an, Peiqiang Yu1*.*. 1Department of Animal and Poultry Science, University of Saskatchewan. 2Email: vhg019@mail.usask.ca; peiqiang.yu@usask.ca STUDENT PRESENTATION

Effects of lipopolysaccharide on the metabolic function of ruminal epithelial cells. Kent-Dennis, C. and G.B. Penner. Dept. of Animal and Poultry Science, University of Saskatchewan. Email: greg.penner@usask.ca

Association between Protein Molecular Spectral Profiles and Metabolizable Protein Supply, Protein Rumen Degradation Characteristics and Estimated Intestinal Protein Digestion to Dairy Cattle Before and After Rumen Incubation of Faba Bean Partitions and Faba Bean Silage. Ming Yan, David Christensen, Herbert (Bart) Lardner, Victor H. Guevara-Oquendo, and Peiqiang Yu1*. Department of Animal and Poultry Science, University of Saskatchewan. *Email: peiqiang.yu@usask.ca

Association between Carbohydrate Related Molecular Structure Spectral Profiles and Chemical Profiles, Energy Profiles, CNCPS Profiles and Rumen Degradation Parameters to Dairy Cattle Before and After Rumen Incubation of Faba Bean Partitions and Faba Bean Silage. Ming Yan, Herbert (Bart) Lardner, David Christensen, Victor H. Guevara-Oquendo, and Peiqiang Yu*. Department of Animal and Poultry Science, University of Saskatchewan. *Email: peiqiang.yu@usask.ca

Determining the optimal dosage of an innovative fibrolytic enzyme on NDF and DM degradability and kinetics of whole crop faba bean silage in western Canada. Chenchieh Yang1, David Christensen1, Herbert (Bart) Lardner1, Victor H. Guevara-Oquendo1, Basim Refat1, Osama AlZahal1, and Peiqiang Yu1*. Dept of Animal and Poultry Science, University of Saskatchewan. "AB Vista, Marlborough, United Kingdom. Email: peiqiang.yu@usask.ca