

52nd Annual Pacific Northwest Animal Nutrition Conference

PROCEEDINGS

PACIFIC NORTHWEST ANIMAL NUTRITION CONFERENCE



January 16-17, 2018

Boise, Idaho

- Organized By -

Oregon State University, University of British Columbia, University of Idaho, and Washington State University

- Committee -

Amber Adams-Progar and Joe Harrison – Washington State University;

Pedram Rezamand and Carl Hunt – University of Idaho;

Chad Mueller – Oregon State University;

Tim Evans – Novus International, Inc.;

Tess White – Alltech;

George Dawson – Zinpro Performance Minerals;

Ronaldo Cerri – University of British Columbia;

Jan Breckman – Jefo Nutrition;

Lynn VanWieringen and Fred Muller – Ag Health Laboratories

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LC-Triple TOF MS and SWATH® data acquisition to explore avian resistance to the fungal alkaloid ergovaline in endophyte-infected tall fescue diets.

H. Roberts, J. Duringer, M. Craig, J. Hermes, G. Cherian

Blackberry Pomace - A Novel Feed Supplement for Transition Dairy Cows: Effect on Reproductive Performance

K. Swanson, S. Akers, K. Estenson, R. Wilson, M. Keller, and G. Bobe

Flaxseed Supplementation with and without Rumen-Bypass Processing: Effect on Milk Production and Milk Fatty Acid Composition

S. Akers, R. Wilson, K. Swanson, M. Keller, L. Goddick, G. Cherian, R. Day, and G. Bobe

Effects of precision feeding protein to dairy cattle on emissions from fresh slurry

C.B. Peterson, E.G. Schusterman, E.J. DePeters, Y.J. Zhao, Y. Pan, D. Luchini, and F.M. Mitloehner

The effect of 2,4- thiazolidinedione on milk lipid soluble vitamins and fatty acid profiles in lactating goat induced with sub-clinical mastitis

C.Y. Tsai*, F. Rosa, M. Bionaz, and P. Rezamand

The effect of limit feeding forage on rumen development in pre-weaned Jersey calves

D.E. McCurdy and A.H. Laarman

Effects of feeding grape pomace in finishing cattle diets on production performance, carcass characteristics and product quality.

F.A. Arend, M.E. Doumit, G.K. Murdoch, and G.E. Chibisa

Effect of betaine supplementation on total tract digestibility, rumen fermentation, and rumen microbiome in dairy cows

H.C. Hung, C.Y. Tsai, and P. Rezamand

Effects of maturity at harvest on the nutritive value of Eragrostis tef (Moxie) when fed to beef cattle.

J.R. Vinyard, J.B. Hall, J.E. Sprinkle, G.E. Chibisa

Effect of processing Ventenata dubia on palatability in ruminants.

C.J. Watts, D.E. McCurdy, G.E. Chibisa, F.A. Brummer, T.S. Prather, A.H. Laarman

Effects of feeding supplemental butyrate on transfer of passive immunity.

R.L. Hiltz and A.H. Laarman

Effects of inclusion of grape pomace in backgrounding cattle diets on nutrient intake and digestibility, and nitrogen excretion.

J.R. Vinyard, C.A. Myers, and G.E. Chibisa

PNWANC Program Agenda

Tuesday, January 16

8:30 AM – 12:45 PM Onsite Registration

9:30 AM – Noon Organizing/Planning Committee – River Fork Room

DSM Preconference 1:00 PM – 5:15 PM



1:00 PM Welcome: This is DSM, and this is what we do! Kale Causemaker, DSM

Session 1: Vitamin Nutrition for the Transition Cow and Calf

Moderator – Kara Ortega, DSM

1:15 PM - B-Carotene for the Transition Cow and Calf: More Than Provitamin A - Dr. Mark Engstrom, DSM

2:00 PM - B-Carotene from a Dairyman's Perspective - Doug Hubby, DSM

2:45 PM – Break

Session 2: New Frontiers in Vitamin D Nutrition

Moderator – Ryan Barcellos

3:00 PM - Perspectives on Vitamin D and Human Nutrition, Michael McBurney, DSM

3:45 PM - 25-OH-D3 in poultry nutrition: what we have learned from a scientific and practical perspective - Dr. Nelson Ward, DSM

4:30 PM - Skeletal health in the modern dairy cow: Is it a driver of metabolic health?, Dr. Joe McGrath, DSM

5:30 PM - 7:00 PM Graduate Posters viewing/Reception by DSM

PNWANC Conference Agenda

Wednesday, January 17 starting at 8:15 AM

7:00 AM – 8:15 AM Continental Breakfast

Chair: Dr. Joe Harrison

8:15 AM – 8:30 AM Welcome and Introductions. Dr. Joe Harrison - WSU

8:30 AM – 9:10 AM Facts and fiction about livestock and climate change. Frank Mitloehner, University of California-Davis.

9:10 AM – 9:50 AM An update on strategies to prevent hypocalcemia, not just milk fever, in transition cows. Jesse Goff, Iowa State University.

9:50 AM – 10:20 AM Coffee Break, Sponsored by Simplot

Chair: Dr. Pedram Rezamand

10:20 AM – 11:00 AM Managing transition period health for reproduction. Stephen LeBlanc, University of Guelph

11:00 AM – 11:40 AM Lipid mediators and inflammatory disorders of dairy cows. Loraine Sordillo, Michigan State University.

11:40 AM – 12:00 PM Graduate Posters Announcement and Presentations (top three graduate students informally share their research)

12:00 PM – 1:30 PM Lunch Break

Michael Parrella, Dean – College of Agriculture and Life Sciences – University of Idaho

ARPAS presentation – Dr. Bill Sanchez

Chair: Dr. Anne Laarman

1:30 PM – 2:10 PM Corn silage, managing the manageable. Wes Kezar, Pioneer DuPont.

2:10 PM Coffee Break

Chair: Dr. Lynn VanWieringen

2:40 PM – 3:20 PM Update on mineral and vitamin requirements for dairy cows. Bill Weiss, The Ohio State University.

3:20 PM – 4:00 PM A systematic approach to improving transition success. Mike Ballou, Texas Tech University.

4:00 PM Adjourn