51st Annual Pacific Northwest Animal Nutrition Conference

PROCEEDINGS



January 18-19, 2017 Richland, Washington

51st Annual Pacific Northwest Animal Nutrition Conference

PROCEEDINGS

Table of Contents

PRECONFERENCE Sponsored by Balchem	
Choline: A Limiting Nutrient for Transition Dairy Cows Ric Grummer, University of Wisconsin	6
Hepatic Methyl Metabolism: Influencing Success During the Transition to Lactation Heather White, University of Wisconsin	11
Insulin Resistance in Transition Dairy Cows: Friend or Foe? Ric Grummer, University of Wisconsin	16
Goldilocks Meets Choline, Too Hot? Too Cold? Just Right? Charlie Staples, University of Florida	20
MAIN CONFERENCE	
Digestion and Dairy Cow Performance – Leaky Gut Sara Kvidera, Iowa State University	28
Transition Cow Nutrition and Metabolic Health Heather White, University of Wisconsin	35
Corn Silage Processing Score Evaluations and other Procedures for Characterizing Corn Digestibility Ralph Ward, CVAS Labs	
Use of Technology for Making Management Decisions Jeff Bewley, University of Kentucky	40
Describing aNDFom Digestibility in Multiple Pools and Predictions for Rumen Function Dr. Mike Van Amburgh, Cornell University	47
Finances and Returns for Robotic Dairies Jim Salfer, University of Minnesota	55
Enhancing the Efficiency of Nutrient utilization in Cattle	62

Feed processing affects palatability of ventenata-infested grass hay

D.E. McCurdy*, C.J. Watts, G.E. Chibisa, T. Prather, and A.H. Laarman

OmniGen-AF® supplementation on superovulation response in donor beef cows

A.P. Snider, M.R. Gellings, S.A. Armstrong, D.J. McLean, A.R. Menino Jr.

Use of Herbal Feed Additives in Poultry Feeding

K. Nix, G. Cherian, and F. Vercese

Dual-Purpose Winter Canola: Forage, Silage, and Grain Production

E. Walker, D. Llewellyn, and S. Fransen

Rumen-protected histidine supplementation; nutrient driven beef improvement

B.N. Sandberg, C.W. Hunt, M.E. Doumit, R. Richard, and G. K. Murdoch

Dietary ergovaline exposure induces fescue toxicosis-like response in Coturnix quail chicks

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

Effects of Serum Concentration of Beta-Carotene at Artificial Insemination on Productive and Reproductive Parameters in Lactating Holstein Cows

A.M.L. Madureira, T.G. Guida, R.L.A. Cerri, and J.L.M. Vasconcelos

Effect of rumen protected vitamin B complex on metabolic parameters, milk production and d 15 conceptus and endometrial outcomes

M. Kaur, I. Hartling, T.A. Burnett, L. Polsky, C. Donnan, H. Leclerc, and R.L.A. Cerri