

Gregory J. Eckerle

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Education

Kansas State University

PhD in Animal Science 2011

Dissertation: Mitigation of condensed tannins in sericea lespedeza (*Lespedeza cuneata*).

Colorado State University

M.S. in Animal Science 2009

Thesis: Fetal growth restriction in rapidly growing adolescent ewe lambs.

Colorado State University

B.S. in Animal Science 2006

Objective

Work within a stimulating, fast paced environment, developing new technologies or products for consumer use. Working as part of a cohesive team to solve problems and increase production capabilities. Determine innovative ways to manage animal nutrition utilizing alternative feed additives.

Employment

August 2016 – Present

Texas A&M University Commerce

Assistant Professor, Animal Science
Commerce, TX. USA

- Mineral interactions in growing and mature cattle
- Dietary composition of grazing livestock
- Forage utilization programs for heifer development
- Feed additive investigation into food safety
- Managed 1 GA and 5 equine center employees

October 2015 – January 2016

JD Heiskell & CO

Colorado Livestock Nutritionist
Windsor, CO. USA

- Worked with commercial dairies and calf ranches
- Worked with independent nutritionists on bid formulations
- Oversaw formulation of products
- Worked with sales for pricing strategies for accounts
- Managed and mentored sales force
- Assisted in managing P&L for locations in Colorado

August 2013– September 2015
Purina Animal Nutrition

Beef Technical Sales Consultant
Sidney, NE. USA

- Operated as a technical sales consultant as well as direct sales contact for large accounts
- Increased sales volume by twenty percent two consecutive years in tonnage on a basis of 500,000 tons
- Initiated programs utilizing organic and hydroxy trace minerals (Zinpro and Micronutrient products)
- Consulted on the general use of supplemental trace minerals with producers throughout Kansas, Montana, Nebraska, North Dakota, and Wyoming
- Worked with commercial feedyards on stressed cattle programs and bunk management
- Worked with independent nutritionists on bid formulations
- Developed rations using various feed ingredients
- Evaluated breakeven and least cost of production for clients
- Worked closely with research and development on new product development
- Worked with marketing to evaluate product placement and incentive programs
- Evaluated new products for use on range and in feedyards

April 2012-July 2013
Suther Feeds Inc.

Technical Support; Range Cattle Division
Frankfort, KS. USA

- Increased sales volume by five percent through direct nutritional formulation and mineral supplements
- Evaluated organic trace minerals and role in product formulation as new products
- Maintained FDA compliance within pharmaceutical inclusion
- Developed range minerals for growing cattle and cow-calf pairs
- Evaluated new products for use in range situations
- Developed rations using by-product feeds for cattle grazing native and improved forages
- Developed total mixed rations using by-product feeds for growing stocker calves
- Developed rations for using by-product feeds dairy cattle and swine
- Developed rations using by-product feeds for grazing and penned sheep and goats
- Assisted producer by supplying nutritional information and feeding strategies
- Consulted on the use of supplemental trace minerals with producers throughout Kansas, Nebraska, Oklahoma, Missouri, and South Dakota

October 2011-March 2012
Livestock Nutrition Center

Sales Representative
Keota, OK. USA

- Increased sales volumes for location by 2000 tons a month over a 400 ton basis
- Developed rations using by-product feeds for cattle on native and improved forages
- Developed total mixed rations using by-product feeds for growing stocker calves
- Developed rations for using by-product feeds dairy cattle and swine
- Developed rations using by-product feeds for grazing and penned sheep and goats
- Assisted producer by supplying nutritional information and feeding strategies
- Consulted on the use of supplemental trace minerals with producers throughout South Eastern Oklahoma

August 2008-December 2011 Graduate Student of Dr. KC Olson
Department of Animal Sciences and Industry, Kansas State University Manhattan, KS. USA

- Developed assays for the determination and protein-binding capacity of condensed tannins in sericea lespedeza
- Sought and received extramural research funding from; Archer Daniels Midland, The Tallgrass Legacy Alliance and Kansas Agriculture Experiment Station
- Developed assays for determination of products that interrupt tannin-protein binding
- Designed and implemented a series of experiments to investigate intake and digestion of high-tannin forages

August 2006-2008 Graduate Student of Dr. Kraig Peel
Department of Animal Sciences, Colorado State University, Fort Collins, CO. USA

- Examined effects of maternal nutrient restriction during gestation on progeny performance
- Utilized techniques to examine gene expression from animal tissues
- Assisted in the management of university seed stock sheep herd

Publications

R.K. Peel, **G.J. Eckerle**, and R.V. Anthony. 2012 Effects of overfeeding naturally-mated adolescent ewes on maternal, fetal, and postnatal growth. J. Anim. Sci. Vol. 90, 3698-3708.

L.R. Mundell, J.R. Jaeger, J.W. Waggoner, J.S. Stevenson, D.M. Greiger, L.A. Pacheco, J.W. Bolte, N.A. Aubel, **G.J. Eckerle**, M.J. Macek, S.M. Ensley, L.J. Havenga, and K.C. Olson. 2012 Effects of prepartum and postpartum bolus injections of trace mineral on performance of beef cows and calves grazing native range. Professional Animal Scientist, Vol. 28. 82-88.

N. A. Aubel, K. C. Olson, J. R. Jaeger, **G. J. Eckerle**, L. A. Pacheco, M. J. Macek, L. R. Mundell, and L. W. Murray. 2011. Botanical composition of diets grazed by mature, lactating cows with calves and mature, no-lactating cows maintained on either burned or unburned native tallgrass prairie. Proceedings, Western Section, American Society of Animal Science, Vol. 62. 222-227.

G. J. Eckerle, K. C. Olson, J. R. Jaeger, J. W. Waggoner, and L. A. Pacheco. 2011. High-tannin forage utilization by beef cows I. Intake and digestion of tallgrass prairie hay contaminated with sericea lespedeza (*Lespedeza cuneata*). Proceedings, Western Section, American Society of Animal Science. Vol. 62. 199-202.

G. J. Eckerle, K. C. Olson, J. R. Jaeger, J. W. Waggoner, and L. A. Pacheco. 2011. High-tannin forage utilization by beef cows II. Effects of corn steep liquor supplementation on intake and digestion of tallgrass prairie hay contaminated with sericea lespedeza (*Lespedeza cuneata*). Proceedings, Western Section, American Society of Animal Science. Vol. 62. 203-206.

G. J. Eckerle, K. C. Olson, J. R. Jaeger, J. W. Waggoner, and L. A. Pacheco. 2011. High-tannin forage utilization by beef cows II. Effects of corn steep liquor supplementation on voluntary intake and digestion of tallgrass prairie hay contaminated with sericea lespedeza (*Lespedeza cuneata*) and uncontaminated prairie hay. Proceedings, Western Section, American Society of Animal Science. Vol. 62. 207-210.

L. R. Mundell, J. R. Jaeger, J. S. Stevenson, D. M. Grieger, L. A. Pacheco, J. W. Bolte, N. A. Aubel, **G. J. Eckerle**, M. J. Macek, L. J. Havenga, K. C. Olson. 2011. Effects of pre-partum and post-partum bolus injection of trace minerals on performance of beef cows and calves grazing native range. Proceedings, Western Section, American Society of Animal Science. Vol. 62. 379-382.

N. A. Sproul, L. W. Murray, J. R. Jaeger, D. A. Blasi, L. N. Edwards, **G. J. Eckerle**, L. A. Pacheco, and K. C. Olson. 2010. Forage selection preferences by multiparous and primiparous beef cows grazing native tallgrass range during winter. Proceedings, Western Sections, American Society of Animal Science. Vol. 61:15-20.

G. J. Eckerle, K. C. Olson, J. R. Jaeger, J. L. Davidson, T. K. Kraft, and L. A. Pacheco. 2010. Effects of sun-curing and harvest maturity on concentration and protein-binding capacity of condensed tannins in sericea lespedeza (*Lespedeza cuneata*). Proceedings, Western Section, American Society of Animal Science. Vol. 61:30-34.

M. J. Macek, J. R. Jaeger, T. B. Schmidt, D. U. Thomson, J. W. Bolte, L. A. Pacheco, N. A. Sproul, L. R. Hibbard, **G. J. Eckerle**, and K. C. Olson. 2010. Effects of degree of respiratory disease vaccination on health and growth performance of ranch-direct beef calves during weaning and receiving. Proceedings, Western Section, American Society of Animal Science. Vol. 61:190-193

L. A. Pacheco, J. R. Jaeger, L. R. Hibbard, M. J. Macek, N. A. Sproul, **G. J. Eckerle**, E. A. Bailey, J. W. Bolte, and K. C. Olson. 2010. Effects of prepartum rumen-protected choline supplementation on performance of beef cows and calves. Proceedings, Western Section, American Society of Animal Science. Vol. 61:259-261.

G. J. Eckerle, K.C. Olson, J. R. Jaeger, W.H. Fick, L. A. Pacheco, and K. Walburger. 2009. Microhistological characterization of the botanical composition by beef cows in the Kansas Flint Hills during winter. Proceedings, Western Section, American Society of Animal Science. 60:397-400.

G. J. Eckerle, R. V. Anthony, R. K. Peel. 2008. Effects of overfeeding adolescent ewe lambs on progeny growth. J. Anim. Sci. Vol. 86, E-Suppl. 2: 428.

Presentations

G. J. Eckerle. 2011. High-tannin forage utilization by beef cows I. Intake and digestion of tallgrass prairie hay contaminated with sericea lespedeza (*Lespedeza cuneata*). Cattlemen's Day, Beef Cattle Research Report of progress 1047. Kansas State University, Manhattan, KS, USA.

G. J. Eckerle. 2011. High-tannin forage utilization by beef cows II. Effects of corn steep liquor supplementation on intake and digestion of tallgrass prairie hay contaminated with sericea lespedeza (*Lespedeza cuneata*). Cattlemen's Day, Beef Cattle Research Report of progress 1047. Kansas State University, Manhattan, KS, USA.

G. J. Eckerle. 2011. High-tannin forage utilization by beef cows II. Effects of corn steep liquor supplementation on voluntary intake and digestion of tallgrass prairie hay contaminated with sericea lespedeza (*Lespedeza cuneata*) and uncontaminated prairie hay. Cattlemen's Day, Beef Cattle Research Report of progress 1047. Kansas State University, Manhattan, KS, USA.

G. J. Eckerle. 2011. Effects of sun-curing and harvest maturity on concentration and protein-binding capacity of condensed tannins in sericea lespedeza (*Lespedeza cuneata*). Cattlemen's Day, Beef Cattle Research Report of progress 1047. Kansas State University, Manhattan, KS, USA.

G. J. Eckerle. 2010. Botanical Composition of diets grazed by beef cows in the Kansas Flint Hills during winter. Cattlemen's Day, Beef Cattle Research Report of progress 1029. Kansas State University, Manhattan, KS, USA.

G. J. Eckerle. 2008. Effects of overfeeding adolescent ewe lambs on progeny growth. J. Anim. Sci. Vol. 86, E-Suppl. 2: 428.

Financial Awards

2016 \$85,000 Research grant on yeast metabolites

Awards

2013 AFIA Ruminant Subcommittee member

2011 Department of Animal Sciences, Kansas State University

- Recipient of the Hiles Rannells Graduate Fellowship

Teaching

Assistant Professor School of Agriculture, Texas A&M University - Commerce

- Equine Nutrition, Spring 2017
- Animal Feeds and Feeding, Spring 2017
- Mineral and Vitamin Metabolism, Spring 2017
- Introduction to Animal Science Laboratory, Fall 2016, Spring 2017
- Anatomy and Physiology of Farm Animals, Fall 2016
- Animal Nutrition, Fall 2016

Graduate Teaching Assistant Department of Animal Sciences, Kansas State University

- Introduction to Animal Science Laboratory, Spring 2011
- Information Management for Food Animal Production Systems, Fall 2010
- Horse Science, Spring 2010
- Feeds and Feeding Laboratory, Fall 2009
- Introduction to Food Animal Science, Spring 2009
- Beef Science, Fall 2008

Graduate Teaching Assistant Department of Animal Sciences, Colorado State University

- Food Animal Science, Fall 2007
- Domestic Animal Ultrasonography, Fall 2007
- Domestic Animal Reproduction, Spring 2007
- Domestic Animal Ultrasonography, Spring 2007