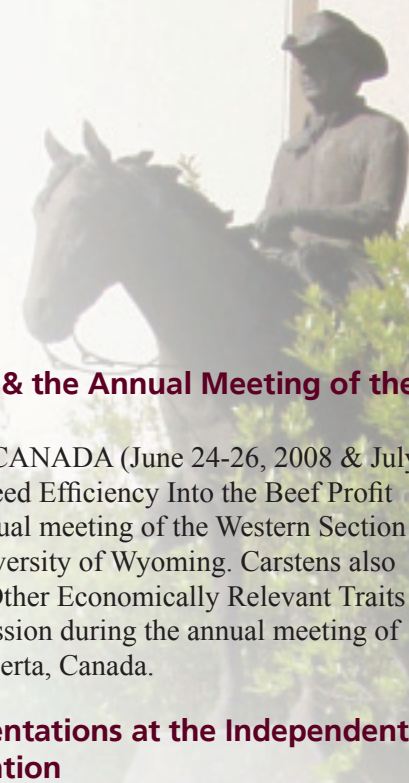


# Animal Science Weekly

August 1, 2008



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### **Carstens Presents at University of Wyoming & the Annual Meeting of the Beef Improvement Federation**

LARAMIE, WYOMING & CALGARY, ALBERTA, CANADA (June 24-26, 2008 & July 1-3, 2008) - Dr. Gordon Carstens presented "Fitting Feed Efficiency Into the Beef Profit Equation" at the Beef Symposium held during the annual meeting of the Western Section of the American Society of Animal Science at the University of Wyoming. Carstens also presented "Associations Between Feed Efficiency & Other Economically Relevant Traits in Beef Cattle" at the Cowherd Efficiency breakout session during the annual meeting of the Beef Improvement Federation held in Calgary, Alberta, Canada.

### **Cleere, Paschal & Boleman Give Invited Presentations at the Independent Cattlemen's Association 34th Annual Convention**

GALVESTON, TEXAS (June 25, 2008) - Drs. Jason Cleere, Joe Paschal and Larry Boleman gave invited presentations at the Independent Cattlemen's Association (ICA) 34th Annual Convention. Over 125 participants attended the ICA Beef Cattle Basic Program where Cleere, Paschal, and Boleman spoke on the topics of grazing management, beef safety on the ranch, and replacement heifer selection and development. All three speakers have previously been inducted into the prestigious ICA Cattlemen's Council, and Drs. Boleman and Paschal were formerly members of the ICA Board of Directors.

### **Department Welcomes New Extension Specialist**

Dr. Todd Bilby will be joining the Animal Science Department effective August 18 as Associate Professor and Extension Dairy Specialist headquartered in Stephenville. Dr. Bilby comes to us from the University of Arizona where he has served as Dairy Extension Specialist and Assistant Professor. In his split Extension/Research appointment, Dr. Bilby will provide leadership and coordination for Extension educational programs in dairy management and applied research. Dr. Bilby will focus on dairy production and management and environmental aspects of the dairy industry. Welcome, Todd!

### **Carpenter Speaks at the Annual Meeting of the Texas Red Angus Association**

SAN ANGELO, TEXAS - Dr. Bruce Carpenter spoke at the annual meeting of the Texas Red Angus Association Field Day held at the Halfmann Ranch near San Angelo. Carpenter's presentation focused on controlling costs in range and pasture feeding programs. The event is generously hosted by different members from around the state each year, and over 100 purebred breeders attended the field day this year.

### **Smith & Wu Present at National Research Initiative Animal Growth & Nutrient Utilization Annual Investigator Meeting**

INDIANAPOLIS, INDIANA (July 6-7, 2008) - Drs. Stephen B. Smith and Guoyao Wu attended and presented at the National Research Initiative Animal Growth & Nutrient Utilization Annual Investigator meeting, which was held immediately preceding the meeting of the National American Society of Animal Science.

### Sterle Garners Two Industry Awards

LOUISVILLE, KENTUCKY & KERRVILLE, TEXAS (July 4, 2008 & July 11, 2008) - Dr. Jodi Sterle was honored with the National Junior Swine Association 2008 Distinguished Service Award during the National Junior Summer Spectacular held in Louisville, KY. This award is determined by junior board members, and previous winners include Darrell Anderson of the National Swine Registry and Warren Beeler, a prominent judge and Director of Agriculture Commodities for the Kentucky Department of Agriculture. While at the Texas Pork Industry Conference, Sterle garnered another honor, the Texas Pork Producers "Order of the Golden Pig" Award, for her 10 years of service to the pork industry. While not given every year, previous recipients include Dr. Gilbert Hollis, Dr. Howard Hesby, Dr. T. D. Tanksley, and Ken Horton.

### 46th Annual State 4-H Horse Show Held in Abilene

ABILENE, TEXAS (July 20-26, 2008) - The 46th Annual Texas State 4-H Horse Show was held July 20-26, 2008 in Abilene. Over 800 youth from 154 counties entered 1,020 horses, with total class entries exceeding 2,300. The show was managed by Dr. Pete Gibbs, Dr. Brett Scott, and Teri Antilley, with 45 County Extension Agents serving on the Management Team as Class Superintendents. Many thanks to Cargill Animal Nutrition as Education and Awards Enhancement Sponsor, to Wrangler as Scholarship Sponsor, and to Tony Lama Boots for special class awards. Lauren Schroeder and Sam Cunningham represented the department with our booth as a recruiting tool for future Aggies.

### Brad Kim Wins Graduate Student Award

NEW ORLEANS, LOUISIANA (June 27 - July 2, 2008) - Meat Science graduate student Brad Kim won the Institute of Food Technologists (IFT) - Muscle Foods Division Graduate Oral/Paper competition held at the IFT Annual Meeting in New Orleans, LA. Kim's presentation title was "Improvement of bovine muscle color stability through the lactate-LDH system."



Pictured left: Brad Kim won the IFT Muscle Foods Division Graduate Oral/Paper competition. From left to right: Dr. Jeff Savell and Brad Kim.

### Date Set for Rosenthal Lecture Series

COLLEGE STATION, TEXAS (July 30, 2008) - The Rosenthal Lecture Series will be held on Friday afternoon, September 26th, in Room 113 Kleberg Center. This year's speakers are Dr. Carol Lorenzen, University of Missouri; Craig A. Morris, United States Department of Agriculture; and Shalene McNeill, National Cattlemen's Beef Association. For more information, please contact Dr. Jeff Savell <j-savell@tamu.edu> at 979-845-3935.

### Departmental Highlights From the 2008 Joint Meeting of the American Dairy Science Association & American Society of Animal Science

INDIANAPOLIS, INDIANA (July 7-11, 2008) - Faculty and graduate students from the Department of Animal Science attended the 2008 joint meeting of the American Dairy Science Association (ADSA) & American Society of Animal Science (ASAS). In conjunction with the meetings, the ASAS Centennial was celebrated with emphasis of the major accomplishments of the last 100 years of animal science and of the Society. Highlights from Texas A&M University Department of Animal Science participants are as follows:

#### Invited Presentations:

*"Cellular regulation of intramuscular adipose tissue deposition and composition"* by S. B. Smith, K. Kawachi, C. B. Choi, C. W. Choi, and J. E. Sawyer

*"Environmental considerations of feeding bio-fuel co-products"* by N. A. Cole, M. S. Brown, and J. C. MacDonald

*"Precursors to enhance marbling"* by S. B. Smith, J. E. Sawyer, R. D. Rhoades, and M. A. Brooks

*"Stress and immunity: Implications on animal health and production"* by J. A. Carroll, T. H. Elsasser, J. C. Laurenz, R. D. Randel, J. L. Sartin, and T. H. Welsh, Jr.

*"The Small Ruminant Nutrition System (SRNS) model for prediction of energy and protein requirements of goats and sheep"* by A. Cannas, L. O. Tedeschi, A. S. Atzori, and D. G. Fox.

*"Marketing of sheep products: Situation, challenges, and opportunities"* by G. Williams.

## Departmental Highlights From the 2008 Joint Meeting of the American Dairy Science Association & American Society of Animal Science, Continued

*“Changes that have occurred in animal science teaching”* by J. A. Sterle and J. J. Parrish

Panel Discussion: *“Can we go too far in adapting your teaching to student needs?”* by D. S. Buchanan, L. C. Martin, J. A. Sterle, H. Khatib, J. J. Parrish, and M. A. Wattiaux

*ASAS Centennial Presentation: Beef Cattle Clearinghouse: An eXtension Web site* by R. Rasby, G. Selk, L. Anderson, R. Weaber, T. Marston, C. Wright, J. Paterson, C. Mathis, G. Lardy, J. Whittier, D. Strohbehm, T. McCollum, S. Paisley, C. Lane, and D. Hamernik

*“National Market Cow and Bull Beef Quality Audit - 2007: A survey of producer-related defects”* by J. D. W. Nicholson, R. J. Maddock, R. J. Delmore, T. E. Lawrence, W. R. Henning, T. D. Pringle, D. D. Johnson, J. C. Paschal, R. J. Gill, J. J. Cleere, B. B. Carpenter, R. V. Machen, J. P. Banta, J. W. Savell, D. S. Hale, and D. B. Griffin

*ASAS Centennial Presentation: Impacts of animal science research on U.S. sheep production and predictions for the future* by C. J. Lupton

*ADSA Pioneer: White cheese development* by R. Richter

*“Associations between mitochondrial function and feed efficiency in poultry and livestock species”* by W. G. Bottje, and G. E. Carstens.

### Presentations:

*“Impacts of animal science research on U.S. sheep production and predictions for the future”* by C. L. Lupton

*“Evaluation of insulin-like growth factor-I and temperament as selection tools in Brahman heifers”* by L. C. Caldwell, R. O. Dittmar, III, T. D. A. Forbes, T. H. Welsh, Jr., and R. D. Randel

*“Evaluation of accuracy and variation of ThermoChron® iButtons®”* by S. M. Garey, T. H. Friend, and B. H. Carter

*“Relationships between residual feed intake and carcass-quality traits in Santa Gertrudis steers”* by F. R. B. Ribeiro, R. K. Miller, E. G. Brown, P. A. Lancaster, L. O. Tedeschi, S. Moore, D. DeLaney, and G. E. Carstens.

*“Pituitary responsiveness to continuously-administered native GnRH at the winter solstice in anovulatory mares and mares with residual ovarian activity”* I. C. Velez, M. Amstalden, J. D. Pack, and G. L. Williams.

*“Patterns of pituitary venous LH release in the luteal and follicular phase mare: Effects of continuous treatment with native GnRH”* I. C. Velez, M. Amstalden, J. D. Pack, and G. L. Williams.

*“Effect of selenium supplementation and dietary energy manipulation on mares and their foals: Selenium concentrations and glutathione peroxidase activity”* by B. J. Karren, J. F. Thorson, C. A. Cavinder, C. J. Hammer, and J. A. Coverdale.

*“Effect of selenium supplementation and dietary energy manipulation on mares and their foals: Equine colostrum quality and passive transfer of IgG”* by J. F. Thorson, B. J. Karren, M. L. Bauer, C. A. Cavinder, J. A. Coverdale, and C. J. Hammer.

*“Application of computer models in evaluating alternatives to reduce excess nutrients on a beef farm”* by M. J. Baker, D. G. Fox, and L. O. Tedeschi.

*“Residual feed intake of pre- and post-pubertal heifers of diverse breed types”* by A. N. Loyd, A. W. Lewis, R. D. Randel, and C. R. Long

*“Effect of feeding method and temperament on measures of feed efficiency and age at puberty in Brahman bulls”* by N. D. Ramirez, D. A. Neuendorf, A. W. Lewis, S. T. Willard, R. C. Vann, S. Bowers, T. H. Welsh, Jr., T. D. A. Forbes, R. L. Stanko, and R. D. Randel

## Departmental Highlights From the 2008 Joint Meeting of the American Dairy Science Association & American Society of Animal Science, Continued

*“Effect of reflective insulation on calves in polyethylene hutches”* by B. H. Carter, T. H. Friend, J. H. Matis, J. E. Sawyer, and M. A. Tomaszewski.

*“The influence of bovine temperament on rectal temperature and stress hormones in response to transportation”* by N. C. Burdick, J. A. Carroll, R. D. Randel, R. C. Vann, S. T. Willard, L. C. Caldwell, J. W. Dailey, L. E. Hulbert, and T. H. Welsh, Jr.

*“Development of a natural beef production and marketing program for Holstein bull calves”* by M. J. Baker, D. G. Fox, W. R. Henning, L. O. Tedeschi, and D. J. Ketchen

*“Effect of endocannabinoid (EC) agonists on cow corpus luteum (CL) function in vitro”* by C. W. Weems, Y. S. Weems, A. W. Lewis, D. A. Neuendorff, R. D. Randel

*“Relationship of temperament and circulating concentrations of cortisol, total protein, and immunoglobulin G with growth in Angus crossbred calves”* by K. R. Parker, S. T. Willard, A. N. Musselwhite, R. D. Randel, T. H. Welsh, Jr., and R. C. Vann

*“Influence of bovine temperament transportation, and lipopolysaccharide challenge on ultrasound body composition traits”* by R. C. Vann, N. C. Burdick, J. A. Carroll, R. D. Randel, S. T. Willard, L. C. Caldwell, J. W. Dailey, L. E. Hulbert, A. N. Loyd, and T. Welsh, Jr.

*“Influence of temperament on behavioral, physiological, and endocrine responses of cattle to a provocative challenge with lipopolysaccharide (LPS)”* by L. H. Hulbert, J. A. Carroll, J. W. Dailey, R. D. Randel, T. H. Welsh, Jr., L. C. Caldwell, N. C. Burdick, R. C. Vann, and S. T. Willard

*“Synchronizing new follicular wave emergence in Bos indicus-influenced heifers with estradiol benzoate: Role of the magnitude of the acute increase in progesterone”* by J. D. Pack, I. C. Velez, M. Amstalden, and G. L. Williams

*“Substitution of estradiol benzoate for GnRH in the Select Synch + CIDR protocol with or without temporary calf removal in Bos indicus-influenced cattle”* by J. D. Pack, I. C. Velez, M. Amstalden, and G. L. Williams

*“Effects of 20% corn wet distillers grain’s plus solubles in steam-flaked and dry-rolled corn- based finishing diets”* by J. C. MacDonald, K. H. Jenkins, F. T. McCollum, and N. A. Cole

*“Effect of feed bunk sprinklers on attendance at un-shaded feed bunks in dry-lot dairies”* by B. H. Carter, T. H. Friend, J. E. Sawyer, and M. A. Tomaszewski

*“Genetic diversity of U.S. sheep breeds”* by H. Blackburn, M. Brown, S. Wildeus, R. Stobart, D. Bixby, J. Dzakuma, S. Ericsson, W. Getz, N. Cockett, D. Matsas, C. Welsh, S. Spiller, and D. Waldron.

*“Cloning of Ningxiang porcine growth hormone gene and its construction respectively of prokaryotic expression vector”* by W. C. Wang, W. Y. Chu, W. T. Gu, M. M. Geng, T. J. Li, Y. L. Yin, and G. Wu.

### Posters Presented:

Prevention of internal premature browning in cooked steaks packaged in high-oxygen modified atmosphere by increasing reducing ability through lactate enhancement. Y. H. Kim, J. T. Keeton, and J. W. Savell.

Mifepristone (RU486) modulation of dexamethasone-induced suppression of in vitro proliferation of equine lymphocytes. K. A. Gutierrez, N. C. Burdick, J. G. Lyons, C. L. Barton, J. C. Laurenz, N. D. Cohen, N. H. Ing, and T. H. Welsh, Jr.

Assessment of third-ventricle cerebrospinal fluid concentrations of GHRH in cattle: Correspondence with serum concentrations of GH and influences of appetite-regulating peptides. M. G. Thomas, M. Amstalden, D. M. Hallford, G. A. Silver, M. D. Garcia, D. H. Keisler, and G. L. Williams.

## **Departmental Highlights From the 2008 Joint Meeting of the American Dairy Science Association & American Society of Animal Science, Continued**

Dynamic of ruminal fiber digestion of corn milling co-products. L. O. Tedeschi, P. J. Kononoff, K. Karges, and M. L. Gibson.

Relationship between residual feed intake and reproductive performance in Brangus heifers. P. A. Lancaster, G. E. Carstens, P. Chen, D. W. Forrest, T. H. Welsh, Jr., R. D. Randel, and T. D. A. Forbes.

Evaluation of the acute phase response in the neonate bovine model following vaccination against bovine respiratory disease complex. W. J. Horne, K. S. Barling, J. A. Carroll, A. D. Herring, G. A. Holub, and J. E. Sawyer.

Intravenous glucose tolerance test in Ningxiang pigs. X. F. Kong, M. J. Bo, X. Y. Song, Y. L. Yin, B. E. Tan, Z. Q. Liu, H. J. Xu, W. J. Tang, F. G. Yin, and G. Y. Wu.

Progesterone concentration during follicular fluid composition and uterine release of PGF<sub>2a</sub> in dairy cows. R. L. A. Cerri, F. Rivera, C. D. Narciso, R. A. Oliveira, R. C. Chebel, M. A. Amstalden, W. W. Thatcher, and J. E. P. Santos.

Effect of added dietary tannins on animal performance carcass traits, and methane producing activity in finishing calves. W. K. Krueger, H. G. Banuelos, W. E. Pinchak, B. R. Min, R. C. Anderson, G. E. Carstens, R. R. Gomez, and N. A. Krueger.

Evaluation of feed efficiency and feeding behavior traits in Angus and Red Angus growing bulls. Z. D. Paddock, G. E. Carstens, P. A. Lancaster, L. R. McDonald, and S. Williams.

Effect of Chinese herbal ultra-fine powder as a dietary additive on digestion and absorption of amino acids in early-weaned piglets. X. F. Kong, Q. H. He, F. G. Yin, G. Y. Wu, B. E. Tan, and R. L. Huang.

Effect of urea inclusion and cooking time on intake of blocks containing greasy cottonseed meal by beef cows. T. A. Wickersham, F. M. Rouquette, J. E. Sawyer, and R. O. Dittmar, III.

Supplementation of arginine plus conjugated linoleic acid decreases the fat/lean mass ratio in rats. J. Nall, G. Wu, K. H. Kim, S. B. Smith, and L. A. Ford.

Estimation of carcass and empty body chemical composition of Nellore and Caracu breeds. S. F. M. Bonilha, L. O. Tedeschi, I. U. Packer, A. G. Razook, L. A. Figueiredo, R. F. Nardon, and G. F. Alleoni.

Effect of selenium supplementation and dietary energy manipulation on mares and their foals: Foaling parameters and foal physical characteristics. B. J. Karren, J. F. Thorson, C. A. Cavinder, C. J. Hammer, and J. A. Coverdale.

Effect of selenium supplementation and dietary energy manipulation on mares and their foals: Placental dynamics. J. F. Thorson, B. J. Karren, M. L. Bauer, C. A. Cavinder, J. A. Coverdale, and C. J. Hammer.

Unprotected conjugated linoleic acid (CLA) negatively affects milk production and secretion of milk components in dairy ewes. D. E. de Oliveira, M. P. Soares, F. J. Bianchett, R. Fornazier, M. R. Fachinello, M. Girardi, D. Fernandes, D. Soster, M. A. S. da Gama, M. G. C. D. Peixoto, S. de O. Juchem, and L. O. Tedeschi.

Impaired translation initiation activation and reduced protein synthesis in weaned piglets fed a low-protein diet supplemented with essential amino acids. Y. Yin, D. Deng, W. Chua, K. Yao, T. Li, R. Huang, Z. Liu, and G. Wu.

Molecular cloning, distribution and expression of the amino acid transporter y+LAT1 gene in tissues of young Tibet pigs. W. T. Gu, W. Y. Chu, W. C. Wang, M. M. Geng, T. J. Li, Y. L. Yin, and G. Wu.

Molecular cloning distribution and expression of the amino acid transporter b<sup>-</sup>,+AT mRNAs in young Tibet pigs. W. Y. Chu, W. C. Wang, W. T. Gu, M. M. Gen, T. J. Li, Y. L. Yin, and G. Wu.

Relationship of temperament and growth in the suckling beef calf. K. J. Matheney, J. P. Banta, D. A. Neuendorff, T. H. Welsh, Jr., R. C. Vann, and R. D. Randel.

## **Departmental Highlights From the 2008 Joint Meeting of the American Dairy Science Association & American Society of Animal Science, Continued**

Ocular thermography as a measure of body temperature in beef cattle: Influences of environmental factors. S. M. Dray, R. C. Vann, A. B. Chromiak, J. K. Lyons, T. H. Welsh, Jr., R. D. Randel, and S. T. Willard.

Estimating average fiber diameter and variability of wool fleeces using Optical Fibre Diameters Analysers (OFDA 100 and 2000). F. A. Pfeiffer, C. J. Lupton, and D. F. Waldron.

### **Undergraduate Competition:**

Effects of heat stress and milk replacer strategy on calf growth, starter intake, and fecal scores. L. J. Berger, G. A. Holub, and J. E. Sawyer.

### **Upcoming Events**

Saddle & Sirloin Club Steer, Heifer, & Pig Futurities (August 2-3, 2008 - Bryan, TX) - For more information, please visit <http://animalscience.tamu.edu/main/08-futurities.pdf> or email the Saddle & Sirloin Club at [ssfuturities@gmail.com](mailto:ssfuturities@gmail.com)

Texas A&M Beef Cattle Short Course (August 4-6, 2008 - College Station, TX) - For more information, please contact Dr. Jason Cleere <[jjcleere@ag.tamu.edu](mailto:jjcleere@ag.tamu.edu)> at 979-845-6931 or visit <http://animalscience.tamu.edu/ansc/BCSC/>

Dr. Paul Harms' Retirement Celebration (August 20, 2008 - College Station, TX - 2:00-4:00 p.m.) - For more information, please contact Sherry Martin <[skelly@ansc.tamu.edu](mailto:skelly@ansc.tamu.edu)> at 979-845-3560.

Rosenthal Lecture Series (September 26, 2008) - For more information, please contact Dr. Jeff Savell <[j-savell@tamu.edu](mailto:j-savell@tamu.edu)> at 979-845-3935.



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