Western Section
American Society of Animal Science

Summary of Scheduled of Events

All Rooms are in the Convention Center unless stated otherwise

NOTE: All posters will be in Room 2250A. The posters will be displayed from 8:30 a.m. Thursday, June 10 until 12:00 Noon Friday, June 11. Authors will be present at the times stated in the program.

Wednesday, June 9, 1999

8:00 a.m. - 4:00 p.m.  Registration, Rm 2297B
8:00 a.m. - 4:30 p.m.  Livestock Symposium: “Consumer-Driven, Science-Based Beef Production Systems” - Rm 2254 CC (Auditorium)
6:00 p.m. - 8:30 p.m.  Informal Reception - Bean Museum

Thursday, June 10, 1999

6:30 a.m. - 8:30 a.m.  Livestock Extension Specialists Business Breakfast - Morris Center
8:00 a.m. - 4:00 p.m.  Registration, Rm 2297B
8:00 a.m. - 4:00 p.m.  Posters, Rm 2260A
9:00 a.m. - 11:45 a.m.  Graduate Student Competition, Rm 2254 CC (Auditorium)
9:00 a.m. - 4:00 p.m.  Spouses and Teen Activities
1:30 p.m. - 4:00 p.m.  Breeding and Genetics, Rm 2265 CC
1:30 p.m. - 2:45 p.m.  Physiology, Rm 2267 CC
2:00 p.m. - 4:30 p.m.  Ruminant Nutrition, Rm 2295 CC
5:30 p.m. - 7:30 p.m.  Steak Barbeque, Riverside Park

Friday, June 11, 1999

8:00 a.m. - 12:00 Noon  Registration, Rm 2297B
9:00 a.m. - 11:15 a.m.  Animal Behavior/Livestock Production Environment, Rm 2265 CC
9:15 a.m. - 11:30 a.m.  Growth-Development/Meat Science/Teaching, Rm 2295 CC
9:00 a.m. - 10:00 a.m.  Forages/Pastures, Rm 2267 CC
8:00 a.m. - 12:00 Noon  Posters, Rm 2260A
12:00 Noon - 2:30 p.m.  Business and Awards Luncheon, Rm 2258A
Livestock Symposium
Consumer-Driven, Science-Based Beef Production Systems

Wednesday, June 9, 1999
8:00 a.m. - 4:30 p.m.
Rm 2254 CC (Auditorium)

Dr. R. L. Preston, Pagosa Springs, CO, Presiding

8:50 Introduction Dr. Robert Short, USDA, Miles City, MT
9:00 How Can the Beef Industry Recapture Lost Market Share? Dr. Ted Schroeder, Kansas State University
9:45 Break
10:00 New approaches for Improvement of Beef Tenderness, Quality and Consistency. Dr. Daryl Tatum, Colorado State University
10:40 Can Cow Adaptability and Carcass Acceptability Both be Achieved? Dr. Ronnie Green, Colorado State University
11:20 How Can the Early Post-partum Heifer be Physiologically and Nutritionally Manipulated to Optimize Reproductive Efficiency? Drs. Mark Peterson, Dean Hawkins and Milt Thomas, New Mexico State University
12:00 Lunch
1:30 Can the Nutrient Status of Grazing Cattle be Monitored to Determine Supplement Needs? Dr. Ted McCollum, Texas A&M University
2:50 Break
3:00 NCBA Perspective on Industry Direction. Mr. Terry Stokes, National Cattlemen’s Beef Assoc., Englewood, CO
3:40 Incorporating Science into The Production of Consumer Acceptable Beef Panel.
Dr. Doug Hixon, Moderator
Dr. Don Clanton, C&S Cattle, Co., Elizabeth, CO
Dr. Art Raun, Eagle’s Nest Ranch, CO
Dr. Tom Dunn, ZC Ranch, Laramie, WY
Dr. Dell Allen, Excel Corp., KS

Graduate Student Competition

Thursday, June 10, 1999
9:00 a.m. - 11:45 a.m.
Rm 2254 CC (Auditorium)

Dr. B. W. Hess, University of Wyoming, Laramie, Presiding

Abstract

<table>
<thead>
<tr>
<th>Time</th>
<th>No.</th>
<th>Title</th>
<th>Authors</th>
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</thead>
<tbody>
<tr>
<td>9:00</td>
<td>1</td>
<td>Soybean oil or corn supplementation of heifers grazing summer pasture.</td>
<td>L. Brokaw*, B. W. Hess, T. K. Stenbak, J. D. Heeg, M. B. Whitney, and C. M. Tsopito, University of Wyoming, Laramie, WY 82071</td>
</tr>
<tr>
<td>9:15</td>
<td>2</td>
<td>Effects of Supplemental Undegradable Intake Protein on Productivity of Primiparous Beef Cows.</td>
<td>B. W. Allderton*, D. L. Hixon1, B. W. Hess1, D. M. Halford2, L. F. Woodard3, and G. E. Moss4, 1University of Wyoming, Laramie, WY 82071, 2New Mexico State University, Las Cruces, NM 88003</td>
</tr>
<tr>
<td>9:30</td>
<td>3</td>
<td>Synchronization of ovulation using hCG or GnRH with the CO-Synch protocol in suckled beef cows.</td>
<td>R. R. Salverson*, J. C. Whittier, E. R. Downing, and T. W. Geary, Colorado State University, Fort Collins, CO</td>
</tr>
<tr>
<td>10:00</td>
<td></td>
<td>BREAK</td>
<td></td>
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</tbody>
</table>
10:30  5 Preliminary evaluation of pituitary responsiveness to growth hormone releasing hormone as a tool to predict growth traits in bulls. C. C. Rasor*1, M. G. Thomas1, R. M. Enns2, H. C. Salazar2, D. M. Hallford1, and J. D. Thomas3, 1New Mexico State University, Las Cruces, NM, USA, 2University of Arizona, Tucson, AZ, USA.

10:45  6 Effects of supplemental trace mineral form on trace mineral status and performance of beef heifers. J. D. Bailey*1, R. P. Ansotegui1, J. A. Paterson1, J. G. Berardinelli1i, and A. B. Johnson2, 1Montana State University, Bozeman, 2Zinpro Corporation, Eden Prairie, MN.

11:00  7 Digestibility characteristics of barley lines from the world collection in rats. D. C. Regli1, J. G. P. Bowman1, T. K. Blake1, L. M. M. Surber1, S. J. Rolando1, B. L. Robinson1, and H. Brockleman2, 1Montana State University Bozeman, MT, 2USDA-National Small Grains Germplasm Research Facility Aberdeen, ID.

11:15  8 Lowcweed bite count correlation with serum swaissonine levels in cattle. D. R. Doherty*1, J. Vaad1, G. Greathouse1, A. P. Knight2, T. W. Geary2, and M. H. Ralphs4, 1Colorado State University, Department of Animal Science, 2Colorado State University, Department of Clinical Science, 3USDA, ARS, Fort Keogh, LARRL, USDA, ARS, Poison Plant Research Center.

11:30  9 Effects of cutting method, display temperature and vitamin E on retail beefsteak discoloration. Y. Chiang* and T. P. Ringkob, University of Nevada, Reno NV.

Lunch
11:45 a.m. - 1:30 p.m.
Morris Center

Breeding and Genetics
Thursday, June 10, 1999
1:30 p.m. - 4:00 p.m.
Rm 2265 CC

Dr. G. D. Snowder, USDA, ARS, DuBois, ID, Presiding

Abstract

Time No.  Genetic parameter estimates for birth weight, weaning weight, and post weaning gain in Salers beef cattle. L. A. Kuehn*1, B. L. Golden1, C. R. Comstock1, L. R. Hyde1, and S. Doubet2, 1Colorado State University, Fort Collins, 2American Salers Association, Englewood, CO.

1:45  19 Age of dam by contemporary group interaction for weaning weight in Salers cattle. L. R. Hyde*, B. L. Golden1, C. R. Comstock1, L. A. Kuehn1, and S. Doubet2, 1Colorado State University, Fort Collins, 2American Salers Association, Englewood, CO.

2:00  20 Using microsatellites to determine genetic similarities and differences in Criollo cattle. N. D. Russell*, E. G. Fraser1, G. Erosa2, J. Rios2, and D. E. Hawkins3, 1New Mexico State University, Las Cruces, NM USA, 2University of Chihuahua, Mexico.

2:15  21 Evaluation of a Panel of Microsatellite DNA Markers for Use in Individual Identification of Beef Cattle. E. M. Stockburger*, R. D. Green1, W. O. Wood1, T. Holm2, M. D. MacNeil3, D. W. Schaefer4, R. S. Yemm5, and J. Berg-Ramsey1, 1Department of Animal Sciences, Colorado State University, 2Perkin Elmer AgGen, Salt Lake City, UT, 3USDA-ARS Livestock and RRange Research Laboratory, Miles City, MT, 4Colorado State Universtiy, San Juan Basin Research Center, Hesperus, CO.

2:30  22 Docility EPD for Salers cattle. J. L. Evans*, L. A. Kuehn1, L. R. Hyde1, C. R. Comstock1, B. L. Golden1, and S. Doubet2, 1Colorado State University, Fort Collins, 2American Salers Association, Englewood, CO.

2:45 BREAK


### Physiology

Thursday, June 10, 1999  
1:30 p.m. - 2:45 p.m.  
Rm 2267 CC

Dr. R. W. Silcox, Brigham Young University,  
Provo, UT, Presiding

<table>
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<tr>
<th>Time</th>
<th>No.</th>
<th>Abstract</th>
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<tr>
<td>1:30</td>
<td>26</td>
<td>Serum LH and GH as indicators of onset of puberty in young Debouillet ewe lambs. K. L. Shirley*, D. M. Hallford, J. A. Hernandez, and J. L. Bollinger, New Mexico State University, Las Cruces, NM USA.</td>
</tr>
<tr>
<td>1:45</td>
<td>27</td>
<td>Serum thyroxine, progesterone, and LH and body weight and milk characteristics in ewes treated with PGF and propylthiouracil during gestation. J. A. Hernandez*, D. M. Hallford, J. L. Bollinger, K. L. Shirley, and J. B. Richards, New Mexico State University, Las Cruces, NM USA.</td>
</tr>
<tr>
<td>2:00</td>
<td>28</td>
<td>Effect of oxytocin (OT) on concentrations of phosphorylated extracellular signal regulated protein kinase (ERK 1/2), c-Jun N terminal/stress-activated protein kinase (JNK/SAPK) and p38 in ovine endometrial tissue in vivo. P. D. Burns*, C. M. Clay², S. E. Nelson², S. H. Hayes³, and W. J. Silvia⁴, ²Department of Animal Sciences, Colorado State University, ³Animal Reproduction Laboratory, Deparment of Physiology, Colorado State University, ⁴Department of Animal Sciences, University of Kentucky.</td>
</tr>
<tr>
<td>2:15</td>
<td>29</td>
<td>Effect of excess degradable intake protein on early embryonic development, ovarian steroids, and blood urea nitrogen on days 3 and 5 of the estrous cycle in mature ewes. J. G. Berardinelli*, P. J. Burfening, and R. Adair, Montana State University, Bozeman MT.</td>
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### Ruminant Nutrition

Thursday, June 10, 1999  
2:00 p.m. - 4:30 p.m.  
Rm 2295 CC

Dr. R. D. Wiedmeier, Utah State University,  
Logan, Presiding

<table>
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<tr>
<th>Time</th>
<th>No.</th>
<th>Abstract</th>
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<tbody>
<tr>
<td>2:00</td>
<td>31</td>
<td>Effects of supplementation on intake and digestion kinetics of prairie hay. T. N. Bodine*, H. T. Purvis II¹, M. T. Van Koevering², and E. E. Thomas³, ¹Oklahoma Agricultural Experiment Station, ²Farmland Industries, ³Elanco.</td>
</tr>
<tr>
<td>2:30</td>
<td>33</td>
<td>Effects of forage to concentrate ratio on flow of unsaturated fatty acids to the small intestine of sheep. O. Kucuk*, B. W. Hess, and D. C. Rule, University of Wyoming, Laramie, Wyoming/USA.</td>
</tr>
<tr>
<td>2:45</td>
<td>34</td>
<td>Evaluation of ewe and lamb immune response in pregnant ewes supplemented with vitamin E. J. T. Daniels*, P. G. Hatfield, D. E. Burgess, and R. W. Kott, Montana State University, Bozeman MT.</td>
</tr>
<tr>
<td>3:00</td>
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<td>BREAK</td>
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<tr>
<td>3:30</td>
<td>35</td>
<td>Effect of degree of grain processing on serum metabolic hormone profiles and performance by finishing steers. M. S. Brown¹, C. R. Krehbiel¹, M. L. Galvean², D. M. Hallford¹, D. Walker¹, G. Duff¹, M. Wiseman¹, and K. Malcolm-Callis¹, ¹New Mexico State University, Las Cruces, NM USA, ²Texas Tech University, Lubbock, TX USA.</td>
</tr>
</tbody>
</table>
Variation in feed quality characteristics in the Lewis x Baronesse recombinant inbred barley lines. L. M. M. Surber*, J. G. P. Bowman, T. K. Blake, T. C. Blackhurst, and S. J. Rolando, Montana State University Bozeman, MT USA.


Ileal amino acid digestibility of low and high protein, grain sorghum-soybean meal diets added with a fungal protease in growing pigs. M. Cervantes*, J. González1, N. Torrentera1, V. González1, and M. Cuca2, 1Instituto de Ciencias Agrícolas, Universidad Autónoma de Baja California, 2Colegio de Postgraduados.

Posters I

Authors Present: Thursday, June 10, 1999
1:30 p.m. - 3:30 p.m.
Rm 2260A

Abstract No.

39 Effects of monensin and ponderosa pine needle chemicals on ingestion of oats by cattle. S. L. Kronberg and A. V. Earley*, South Dakota State University, Brookings, SD.

40 Spatial distribution of grazing cattle: does grazing area preference bias foraging-pathway decisions? M. R. Keil*, L. R. Rittenhouse1, D. W Bailey2, and D. M. Swift1, 1Colorado State University Department of Rangeland Ecosystem Science, 2Montana State University Northern Agricultural Research Center.


42 Comparison of nutrient composition and ensiling characteristics of corn versus wheat-based spent fruit fly media for consideration as livestock feed. J. R. Carpenter*, R. Y. Niino-DuPonte, and L. Loando, CTAHR, University of Hawai`i at Manoa, Honolulu, HI.


47 The effects of molasses-urea with or without fat and(or) methionine hydroxy analog (MHA) on nutritional status, reproductive performance and calf growth in cows grazing native range. G. D. Pulsipher*, C. R. Krehbiel, M. K. Petersen, J. E. Sawyer, D. Dhuyvetter, E. E. Parker, S. Cox, and T. Dean, New Mexico State University, Las Cruces, NM USA.

48 Effects of previous grazing on gain and feedlot performance in steers. B. M. Capitan*, C. R. Krehbiel1, R. E. Kirksey2, L. M. Laurnault2, G. C. Duff3, and G. B. Donant1, 1New Mexico State University, Las Cruces, NM USA, 2Agricultural Science Center, Tucumcari, NM USA, 3Clayton Livestock Research Center, Clayton, NM USA.

Steak Barbeque, Riverside Park
5:30 p.m. - 7:30 p.m.
Abstract

Time No.  
9:00 49 The effects of metaphylactic injectable antibiotics on feeding and watering behavior of newly received feedlot calves. T. K. Daniels*, J. G. P. Bowman1, B. F. Sowell1, M. E. Branine2, and M. E. Hubbert3, 1Montana State University Bozeman, MT, 2Roche Vitamins Inc. Parker, CO, 3McElhaney Cattle Company Wellton, AZ.

9:15 50 Ram sexual performance predicts sexual performance of male offspring. C. J. Bench*, E. O. Price, M. R. Dally, and R. E. Borgwardt, University of California, Davis Davis, Ca USA.


9:45 52 Delaying postpartum supplementation changes the pattern of cow weight loss without affecting total weight loss or calf performance. J. E. Sawyer*, R. C. Waterman, K. K. Kane, and M. K. Petersen, New Mexico State University, Las Cruces, NM, USA.

10:00 BREAK

10:30 53 Effects of dystocia on cold tolerance and serum glucose and cortisol in newborn beef calves. R. A. Bellows*, M. A. Lammoglia2, T. W. Geary1, and R. N. Funston1, 1Fort Keogh LARRL, ARS, USDA, Miles City, MT, 2BovaGen, San Antonio, TX.

10:45 54 Effect of prenatal exposure to a low magnetic field on growth and maze behaviour of calves. J. Broucek*, 1Research Institute Animal Production, Nitra, SK, 2Utah State University, Logan, UT.

11:00 55 Sheep grazing to control wheat stem sawfly. P. G. Hatfield*, S. L. Blodgett, G. D. Johnson, P. M. Denke, and M. W. Carrol, Montana State University, Bozeman.

Growth-Development/Meat Science/Teaching

Friday, June 11, 1999  
9:15 a.m. - 11:30 a.m.  
Rm 2295 CC

Dr. T. F. Robinson, Brigham Young University, Provo, UT, Presiding

Abstract

Time No.  

9:30 57 Effects of varying degrees of muscularity and muscular hypertrophy in Hereford, Limousin, and Piedmontese F2 crossbred calves on traits measured at slaughter. R. E. Short*, M. D. Grosz, M. D. MacNeil, and E. E. Grings, USDA-ARS, Fort Keogh LARRL, Miles City, MT.

9:45 58 Growth, LH release, pregnancy, intake, and forage digestion in Suffolk ewe lambs supplemented with high or low levels of undegradable intake protein. M. W. Salisbury*, T. T. Ross, C. R. Krehbiel, C. L. Schultz, L. Melton, and S. Langley, New Mexico State University, Las Cruces, NM USA.

10:00 BREAK


Comparison of carcass traits of Bos Taurus x Bos Taurus, Bos Indicus x Bos Indicus and Bos Taurus x Bos Indicus. A.P. Marquez, V.C. Carlos, R.S. Ortiz, and G.A. Carrillo

**Forages/Pastures**

**Friday, 9:00 a.m - 10:00 a.m.**

Rm 2267 CC

Dr. K. C. Olson, Utah State University, Logan, Presiding

<table>
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<th>Time</th>
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<th>Abstract</th>
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<tbody>
<tr>
<td>9:00</td>
<td>62</td>
<td>Effects of supplemental trace mineral form on copper status, estrus, ovulation rate, and fertility in beef heifers. R. P. Ansotegui*, J. D. Bailey, J. A. Paterson, P. G. Hatfield, and C. K. Swenson, Montana State University, Bozeman, Zinpro Corporation, Eden Prairie, MN.</td>
</tr>
<tr>
<td>9:15</td>
<td>63</td>
<td>Effectiveness of loose zinc sulfate supplementation on average daily gain (ADG) of Stocker cattle grazing native range. T. L. Dean, R. C. Waterman, J. E. Sawyer, M. K. Petersen, and G. B. Donart, New Mexico State University, Las Cruces, NM USA.</td>
</tr>
<tr>
<td>9:30</td>
<td>64</td>
<td>Effect of grass-legume pasture on forage availability and quality, and growth of Holstein heifers. R. Lopez*, C. Krebsiel, C. Barnes, E. Hanson, E. Castellanos, I. Hernandez, K. Duncan, G. Donart, and R. Flynn, New Mexico State University, Las Cruces, NM USA, Agricultural Science Center, Artesia, NM USA.</td>
</tr>
<tr>
<td>9:45</td>
<td>65</td>
<td>Evaluation of temperate bamboo foliage as an animal feedstuff: Seasonal changes in composition and digestibility in ponies. S. G. Greenway*, M. Keller, G. Nelson, P. R. Cheeke, and D. J. Carroll, Oregon State University, Corvallis, OR, RKR Bamboo Plantation, Coquille, OR, Purina Mills, St. Louis, MO.</td>
</tr>
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**POSTERS II**

Authors present: Friday, June 11, 1999

9:00 a.m. - 11:00 a.m.

Rm 2260A

<table>
<thead>
<tr>
<th>Abstract No.</th>
<th>Title</th>
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<tbody>
<tr>
<td>10</td>
<td>Effects of calving season and weaning age on bioeconomic efficiency in range beef cattle. M. H. Makarechian*, H. Pang, and J. A. Basarab, Department of AFNS, University of Alberta, Alberta Agriculture, Food and Rural Development.</td>
</tr>
<tr>
<td>11</td>
<td>Effects of cow size and milk production on bioeconomic efficiency of range beef cattle. M. H. M. Makarechian*, H. Pang, and J. A. Basarab, Dept. of AFNS, University of Alberta, Alberta Agriculture, Food and Rural Development.</td>
</tr>
<tr>
<td>12</td>
<td>Laparoscopic insemination of ewes using resazurin-treated ram semen. S. Wang, R. C. Evans*, G. R. Holyoak, R. W. Godfrey, J. N. Stellflug, and T. D. Bunch, Utah State University, Logan, UT, University of Virgin Islands, St. Croix, VI, USDA-ARS U.S. Sheep Experiment Station, Dubois, ID.</td>
</tr>
<tr>
<td>15</td>
<td>Bovine embryo development in vitro after exposure to fluorescent light. T. J. Bunch*, S. Wang, G. R. Holyoak, and T. D. Bunch, University of Utah School of Medicine, Salt Lake City, UT, Utah State University, Logan, UT.</td>
</tr>
</tbody>
</table>

LH response to a GnRH challenge in beef heifers. H. C. Salazar*, 1, R. M. Enns1, M. G. Thomas2, C. C. Rason3, D. M. Hallford4, and R. L. Ax1, 1University of Arizona, Tucson, AZ, 2New Mexico State University, Las Cruces, NM.

**POSTERS III**

Authors present: Friday, June 11, 1999  
9:00 a.m. - 11:00 a.m.  
Rm 2260A

Abstract No.

66 Effects of an estradiol implant on locoweed consumption and toxicity in growing steers. J. H. Mikus*, 1, G. C. Duff1, M. S. Brown1, D. A. Walker1, M. W. Wiseman1, M. H. Ralphs2, and C. R. Krebbie1, 1New Mexico State University, Las Cruces, NM USA, 2USDA Poisonous Plants Lab, Logan, UT USA.

67 Ruminal digestion by steers fed high concentrate diets containing corn or barley. T. J. Milner*, J. G. P. Bowman, and L. M. M. Surber, Montana State University Bozeman, MT USA.


69 Replacement value of alfalfa leaves for soybean meal protien in diets fed to mature ewes. C. M. Tsopito, B. W. Hess, A. M. Gray, and J. D. Heeg*, University of Wyoming, Laramie, WY 82071.


75 Influence of tempering on the feeding value of steam-flaked sorghum for feedlot cattle. J. Salinas* and R. A. Zinn,  
76 Influence of flocculent coating on the feeding value of cottonseed meal and steam-flaked corn for feedlot cattle. E. Alvarez* and L. Sternberg,

77 Influence of yeast culture on health, performance, and digestive function of feedlot steers. R. A. Zinn, E. Alvarez, S. Rodriguez*, and J. Salinas,

78 Canola meal, feather meal and urea in high barley diets for growing and finishing beef steers. D. D. Hinman and S. J. Sorensen*,

79 Influence of drying technique on fatty acid composition of ovine fecal samples. O. Kucuk, B. W. Hess, and D. C. Rule*, University of Wyoming, Laramie, Wyoming/USA.

80 Influence of the beta-agonist, zilpaterol, on growth performance and carcass characteristics of feedlot steers. A. Plascencia1, N. Torrenera1, and R. A. Zinn2, 1Universidad Autonoma de Baja California, Mexico, 2University of California, Davis.

81 Ruminal alkalizing potential of brucite (magnesium hydroxide) and sodium bicarbonate for feedlot cattle. M. F. Montano*, J. F. Calderon1, F. Castrejon2, J. D. Garza2, F. Perez2, and R. A. Zinn2, 1Universidad Autonoma de Baja California, Mexicali, Mexico, 2Universidad National Autonoma de Mexico, D. F., Mexico, 3University of California, Davis.

82 Influence of roasting barley on rumen digestibility. S. J. Sorensen and D. D. Hinman*,

83 Immediate and carryover effects of short-term therapeutic feeding of chlortetracycline on digestive function in feedlot steers. W. Chai*, M. F. Montano, and R. A. Zinn,

84 Subcutaneous versus intramuscular administration of vitamin E in feedlot calves. R. A. Zinn and R. L. Stuart*,
Effect of NutroCAL™ fed in a peripartum period on serum nutrient profiles and milk production in Holstein cows. R. Lopez*, C. R. Krehbiel, J. S. Serrato-Corona, and P. B. Kloppenburg, New Mexico State University, Las Cruces, NM USA.


Influence of potassium spiking on marketing shrink and carcass characteristics of feedlot steers. J. Rosalez* and R. A. Zinn.


**Business and Awards Luncheon**

12:00 Noon - 2:30 p.m.
Rm 2258A
OFFICERS

American Society of Animal Science

T.J. Klopfenstein, President
D.H. Beermann, President-Elect
J.D. Armstrong, Program Secretary
M.E. Dikeman, Recording Secretary
L.S. Bull, Past President
G.S. Lewis, Editor-in-Chief
J.W. Lauderdale, Foundation Chair
E.G.M. Bergfeld, Executive Director

Western Section
American Society of Animal Science

M.S. Daugherty, President
J.A. Paterson, President-Elect
E.W. Hawkins, Secretary-Treasurer
R.E. Short, Past President and National Board Director
M.E. Branine, Director
R.D. Green, Chairman, Advisory & Coordinating Committee
PAST PRESIDENTS
Western Section
American Society of Animal Science

1997–98  R.E. Short, USDA, Montana
1996–97  G. H. Coulter, Agriculture Canada, Lethbridge
1995–96  M. L. Galyean, New Mexico State University
1994–95  R. A. Roeder, University of Idaho
1993–94  K. G. Odde, Colorado State University
1992–93  R. A. Field, University of Wyoming
1991–92  D. L. Garner, University of Reno–Nevada
1990–91  R. A. Bellows, USDA, Miles City
1989–90  M. Vavra, Oregon State University
1988–89  A. C. Linton, Montana State University
1987–88  D. M. Hallford, New Mexico State University
1986–87  R. C. Bull, University of Idaho
1985–86  D. E. Ray, University of Arizona
1984–85  R. W. Wright, Jr., Washington State University
1983–84  J. D. Wallace, New Mexico State University
1982–83  R. M. Tait, University of British Columbia
1981–82  R. W. Stanley, University of Hawaii
1980–81  C. B. Theurer, University of Arizona
1979–80  M. H. Kennington, California State Poly Univ.
1978–79  R. W. Gardner, Brigham Young University
1976–77  T. R. Greathouse, Texas A & M University
1975–76  D. C. England, Oregon State University
1974–75  R. L. Blackwell, Montana State University
1973–74  D. M. Bowden, Agriculture Canada Research
1972–73  W. N. Garrett, University of California
1971–72  J. E. Butcher, Utah State University
1970–71  C. J. Kercher, University of Wyoming
1969–70  L. E. Orme, Brigham Young University
1968–69  V. R. Bohman, University of Nevada– Reno
1967–68  A. L. Newmann, New Mexico State University
1966–67  V. B. Swanson, Colorado State University
1965–66  O. O. Thomas, Montana State University
1964–65  R. Bogart, Oregon State University
1963–64  P. O. Stratton, University of Wyoming
1962–63  T. D. Bell, University of Idaho
1961–62  J. A. Bennet, Utah State University
1961  O. F. Pahnish, University of Arizona
1960  G. P. Lofgreen, University of California
1959  M. E. Ensminger, Washington State University
1958  J. F. Kidwell, University of Nevada
1957  N. W. Hilston, University of Wyoming
1956  F. F. McKenzie, Oregon State University
1955  L. E. Washburn, Colorado State University
1954  H. Heitman, Jr., University of California
1953  J. L. VanHorn, Montana State University
1952  L. E. Harris, Utah State University
1951  C. E. Terrill, USDA, Idaho
1950  A. W. Oliver, Oregon State University
1949  R. F. Miller, University of California
1948  E. B. Stanley, University of Arizona
1947  F. S. Hultz, University of Wyoming
1943–46  J. H. Knox, New Mexico State University
1942  R. T. Clark, Montana State University
1941  H. R. Guilbert, University of California
1940  J. Sotola, Washington State University
1938–39  J. E. Norby, University of Idaho
1937  E. H. Hughes, University of California
1935–36  C. W. Hickman, University of Idaho
1934  F. S. Hultz, University of Wyoming
1932–33  J. F. Wilson, University of California
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1929  E. L. Potter, Oregon State University

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1981  W. H. Hale, University of Arizona
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1991  W. J. Murdock, University of Wyoming
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1989  A. R. Menino, Oregon State University
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1990  M. A. Lane, Montana State University
1989  D. L. Rankins, New Mexico State University
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