



**WESTERN SECTION
American Society of
Animal Science
86th Annual Meeting**

**Angelo State University
San Angelo, Texas
June 25-27, 2014**

CAMERA, VIDEO CAMERA, AND CELL PHONE POLICY

Use of cameras, video cameras, and cell phones (for calls or as cameras) is prohibited during oral and poster presentations to minimize disruption and unauthorized dissemination of data. Violators may be asked to leave the session/conference. Exceptions to this policy must be approved in advance by WSASAS Scientific Program Coordinator.

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New Mexico State University, Las Cruce, NM

2014 Western Section American Society of Animal Science Annual Meeting

SUMMARY OF SCHEDULE OF EVENTS

Unless otherwise noted, all events will be held
in rooms of the Houston Harte University Center
on the Angelo State University campus.

MONDAY, JUNE 23, 2014

1:30 pm - 7:30 pm AQ Written Exams and Oral,
University Center, Rooms
110/111, 211

TUESDAY, JUNE 24, 2014

8:00 am - 12:00 pm AQ Lab Practicum, MIR Center/
University Ranch

1:00 pm - 4:00 pm AQ Quiz Bowl, University Center,
Rooms 201, 203/204

4:00 pm - 7:00 pm Registration, Plaza Verde Lobby
(Residence Hall)

4:00 pm - 6:00 pm WSASAS Executive Committee
Pre-conference Meeting,
University Center, Room 105

WEDNESDAY, JUNE 25, 2014

6:00 am - 8:00 am Continental Breakfast, Plaza
Verde Lobby (Residence Hall)

7:30 am - 4:00 pm Registration, La Grande Alumni
Center, 1620 University Ave.

8:00 am - 5:00 pm Beef Symposium: "Regional
Beef Production Enterprises
of Southwest Texas". This
symposium is a tour to Rocking
Chair Ranch and includes invited
speakers after the tour at the
MIR Center. Meet at the
University Center entrance.

- 5:30 pm – 7:15 pm Young Scholars Recognition Program, La Grande Alumni Center, 1620 University Ave.
- 7:20 pm – 9:40 pm Opening Reception, La Grande Alumni Center, 1620 University Ave.
- 7:45 pm – 8:15 pm AQ Quiz Bowl Final, with Opening Session, La Grande Alumni Center, 1620 University Ave.

THURSDAY, JUNE 26, 2014

- 6:00 am – 8:00 am Continental Breakfast, Plaza Verde Lobby (Residence Hall)
- 7:30 am – 5:00 pm Registration, University Center Tower and Lobby
- 7:30 am – 11:45 am Graduate Student Paper Competition, University Center, Room 100
- 12:00 pm – 3:30 pm Posters should be placed for display in Rooms 101 through 105, University Center
- 12:00 pm – 1:30 pm Graduate Student “Lunch and Learn”, University Center, Rooms 203/204
(following Paper Competition Presentations)
- 12:00 pm – 1:30 pm WSASAS Committee Meetings, University Center, Rooms 100, 105, 201, 202, 210, 211
- 1:30 pm – 4:00 pm Oral Presentations, University Center, Room 100
- 4:00 pm – 5:30 pm Poster Presentations, University Center, Rooms 101 through 104
- 6:30 pm – 9:00 pm Awards Banquet, University Center, Room 100
- 9:30 pm Graduate Student Mixer, Fiddlestrings Sports Bar, 3301 Arden Rd, San Angelo, TX

Friday, June 27, 2014

6:00 am – 8:00 am	Continental Breakfast, Plaza Verde Lobby (Residence Hall)
7:30 am – 9:00 am	WSASAS Business Meeting, University Center, Room 100
9:15 am – 12:15 am	Oral Presentations University Center, Room 100
11:00 am – 12:30 pm	Poster Presentations, University Center, Rooms 101 through 104
12:30 pm	Meeting Adjourn
12:00 pm – 1:00 pm	WSASAS Executive Committee Post-conference Meeting, University Center, Room 105

ARPAS exams will be scheduled as applications are received. Contact the ARPAS headquarters office to schedule an exam (arpas@asochq.org)

WEDNESDAY, JUNE 25, 2014

Scientific Sessions

SYMPOSIA AND ORAL PRESENTATIONS

WSASAS BEEF SYMPOSIUM

REGIONAL BEEF PRODUCTION ENTERPRISES OF SOUTHWEST TEXAS

Chair: Scott Lake, University of Wyoming

**Registrants for Bus Tour meet at
the University Center entrance at 8:00 am**

- 8:30 am **Stop 1** **Rocking Chair Ranch, South
Location, and Lipan Location**
- 12:00 pm **Stop 2** **LUNCH, MIR Center, Lobby, Served by
Meat and Food Science Association**
- 1:30 pm BS1 **Managerial considerations in
drought conditions.** *Clay Mathis, King
Ranch Institute for Range Management,
Kingsville, TX.*
- 2:05 pm BS2 **Supplementation strategies in arid
environments.** *Dave Bohnert, EOAR,
Oregon State University, Burns.*
- 2:40 pm **Break**
- 3:00 pm BS3 **Stressed calves.** *Jeff Carroll, USDA,
ARS, Livestock Issues Research Unit,
Lubbock, TX.*
- 3:35 pm BS4 **Impacts of DMI on reproductive
performance.** *Andy J. Roberts, USDA,
ARS, Fort Keogh LARRL, Miles City, MT.*
- 4:10 pm **Stop 3** **MIR Center/University Ranch Tour**

YOUNG SCHOLARS RECOGNITION PROGRAM

*Chair: Connie Larson, Zinpro Corporation,
Eden Prairie, MN
La Grande Alumni Center, 1620 University Ave.*

- 5:15 pm **Introduction of Speakers.** Connie Larson, Chair of Program
- 5:30 pm 01 **Genome assembly of the putative etiologic agent of epizootic bovine abortion.** Bryan Welly, M.S., *University of California, Davis.*
- 6:00 pm 02 **The relationship of feed efficiency with small intestinal biology in finishing cattle.** Hannah Cunningham, M.S., *University of Wyoming, Laramie.*
- 6:30 pm 03 **Maternal nutrient restriction followed by realimentation during early to mid-gestation on uterine blood flow and conceptus development in beef cows.** Leticia Camacho, Ph.D. *North Dakota State University, Fargo.*

THURSDAY, JUNE 26, 2014

ORAL PRESENTATIONS

GRADUATE STUDENT PAPER COMPETITION

*Chair: Ryan Ashley, New Mexico State University
University Center, Room 100*

- 7:30 AM **Introduction.**
J. B. Taylor, *Western Section ASAS
President.*
- 7:45 AM **Greetings from Angelo State
University.**
Dr. Paul Swets, *Dean of Arts and
Sciences, Angelo State University.*
- 8:00 am 04 **Incorporation of sexed semen
into reproductive management of
cow-calf operations.** R. Marques^{*1}, R.
F. Cooke¹, D. W. Bohnert¹, B. I. Cappel-
lozza¹, T. DelCurto², and C. J. Mueller³,
¹*Oregon State University - EOARC
Burns, Burns*, ²*EOARC Union Station,
Oregon State University, Union*, ³*OSU
Eastern Oregon Agricultural Research
Center - Union, Union.*
- 8:15 am 05 **Supplementation based on protein
or energy ingredients to beef cattle
consuming low-quality cool-season
forages: I. Performance, reproduc-
tive, and metabolic responses of
replacement heifers.** B. I. Cappeloz-
za^{*1}, R. F. Cooke¹, M. M. Reis¹, P. Moriel²,
D. H. Keisler³, and D. W. Bohnert¹,
¹*Oregon State University - EOARC Burns,
Burns*, ²*North Carolina State University
- Mountain Research Station, Waynes-
ville*, ³*University of Missouri-Division of
Animal Sciences, Columbia.*
- 8:30 am 06 **Effects of meloxicam administra-
tion on physiological and perfor-
mance responses of transported
feeder cattle.** T. Guarnieri Filho^{*}, R. F.
Cooke, B. I. Cappelozza, M. M. Reis, R.
Marques, and D. W. Bohnert, *Oregon
State University - EOARC Burns, Burns.*
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- 8:45 am 07 **Effects of lasalocid and diet particle size on feedlot performance, carcass traits, and nutrient digestibility in feedlot lambs.** A. R. Crane^{*1,2}, R. R. Redden¹, and C. S. Schauer², ¹*North Dakota State University, Fargo*, ²*Hettinger Research Extension Center, Hettinger, ND*.
- 9:00 am 08 **Metabolic imprinting: Impact on growth and reproductive development of beef heifers.** M. M. Reis^{*1}, R. F. Cooke¹, B. I. Cappelozza¹, R. Marques¹, T. Guarnieri Filho¹, C. J. Mueller², and D. W. Bohnert¹, ¹*Oregon State University - EOARC Burns*, ²*OSU Eastern Oregon Agricultural Research Center - Union*.
- 9:15 am 09 **Effect of high sulfate water on behavior, performance, and volatile fatty acid production in lambs.** C. J. Clarkson^{*1}, H. C. Cunningham², M. Ellison¹, L. Speiser¹, K. J. Austin², and K. M. Cammack², ¹*University of Wyoming, Laramie*, ²*Department of Animal Science, University of Wyoming, Laramie*.
- 9:30 am 010 **Effects of dietary urea concentration and zilpaterol hydrochloride on performance and carcass characteristics of finishing steers.** K. L. Samuelson^{*1}, M. E. Hubbert², and C. A. Loest¹, ¹*New Mexico State University, Las Cruces*, ²*New Mexico State University, Clayton*.
- 9:45 am **Break**
- 10:15 am 011 **Effects of juniper species and stage of maturity on nutritional, digestive, and plant secondary compound characteristics.** W. C. Stewart^{*1}, T. R. Whitney², E. J. Scolljegerdes¹, H. D. Naumann³, N. M. Cherry⁴, J. P. Muir⁵, B. D. Lambert⁴, R. P. Adams⁶, K. D. Welch⁷, and D. R. Gardner⁷, ¹*New Mexico State University, Las Cruces*, ²*Texas A&M AgriLife Research,*

San Angelo, ³University of Missouri, Columbia, ⁴Texas A&M AgriLife Research, Stephenville, ⁵Tarleton State University, Stephenville, TX, ⁶Baylor University, Waco, TX, ⁷USDA-ARS Poisonous Plant Research Laboratory, Logan, UT.

- 10:30 am 012 **Evaluation of titanium dioxide as a digestibility marker for horses.** T. D. Morgan*, A. L. Salazar, E. J. Scholljegerdes, C. A. Loest, L. M. White, F. R. Melgar, and S. L. Ivey, *New Mexico State University, Las Cruces.*
- 10:45 am 013 **Effects of controlled body weight gain on growth and reproductive performance of heifers grazing native rangeland during the pre-breeding period.** L. H. Schmitz*¹, C. M. Buck¹, C. B. Gardner¹, J. R. Graves¹, R. C. Dunlap², S. H. Cox², D. M. Hallford¹, and E. J. Scholljegerdes¹, ¹*New Mexico State University, Las Cruces, ²Corona Range and Livestock Research Center, Corona, NM.*
- 11:00 am 014 **Chemokine ligand twelve (CXCL12) protein in ovine placenta increases during early gestation: Role in maternal-fetal crosstalk?** K. E. Quinn*¹, L. P. Reynolds², A. Grazul-Bilska², P. P. Borowicz², S. T. Dorsam², and R. L. Ashley¹, ¹*New Mexico State University, Las Cruces, ²North Dakota State University, Fargo.*
- 11:15 am 015 **Effects of ad libitum supplement containing increasing levels of microalgae, *Scenedesmus sp.*, on site and extent of digestion in beef heifers consuming a forage-based diet.** C. M. Buck*, N. M. Rodriguez, L. H. Schmitz, A. L. Salazar, K. H. Marchetti, F. R. Melgar, B. E. Bonfantini, S. L. Ivey, M. P. T. Coleson, C. B. Gardner, J. R. Graves, and E. J. Scholljegerdes, *New Mexico State University, Las Cruces.*

- 11:30 am 016 **Effects of delaying time AI based on Estroject patch status on pregnancy rates of nursing beef cows.** M. G. Markwood^{*1}, J. C. Whittier¹, R. K. Peel¹, J. K. Ahola¹, G. E. Seidel¹, S. Lake², and R. N. Funston³, ¹Colorado State University, Fort Collins, ²University of Wyoming, Laramie, ³University of Nebraska, West Central Research and Extension Center, North Platte.

GRADUATE STUDENT “LUNCH AND LEARN”

Co-Chairs: James Graves, New Mexico State University and Kelsey Quinn, New Mexico State University, WSASAS Executive Committee Graduate Representatives University Center, Rooms 203/204

- 12:00 pm **Introduction.** Kelsey Quinn, Co-Chair of Program
- 12:15 pm **Panel Discussion: Questions & Answers**
Panelists:
Campbell “Scott” Porter. Southern Cattle Regional Manager, Boehringer Ingelheim Vetmedica, Inc.
Joshua W. Blaneck. Texas A&M AgriLife Extension, County Extension Agent Agricultural / Natural Resources, Tom Green County, TX.
Dr. Kim Vonnahme. Associate Professor, North Dakota State University, Fargo, ND. 2013 WSASAS Young Scientist Recipient
Dr. Chase Runyan. Assistant Professor, Angelo State University, San Angelo, TX.

WSASAS COMMITTEE MEETINGS

- 12:00 pm Young Scholars Recognition Program Committee, Connie Larson, Chair, University Center, Room 210

- 12:00 pm Advising and Coordinating
Committee, Shanna Ivey, Chair,
University Center, Room 100
- 12:00 pm Beef Symposium Committee, Scott
Lake Chair, University Center, Room
105
- 12:00 pm Awards and Nominating Committee,
Glenn Duff, University Center, Room
202
- 12:00 pm Graduate Student Paper Competition
Committee, Ryan Ashley, Chair,
University Center, Room 201
- 12:00 pm Academic Quadrathlon Committee,
Dan Rule, Chair, University Center,
Room 211

BREEDING AND GENETICS

*Chair: Andy Herring, Texas A & M University
University Center, Room 100*

- 1:30 pm 017 **Economic analysis of cow longevity.**
J. Garcia*, A. D. Herring, D. G. Riley, J. O.
Sanders, and D. Anderson, *Texas A&M
University, College Station.*

GROWTH AND DEVELOPMENT

*Chair: John Hall, University of Idaho
University Center, Room 100*

- 1:45 pm 018 **Analysis of sampling error in the
measurement of body weight gain
and dry matter intake for the cal-
culation of residual feed intake in
growing purebred Charolais cattle.**
W. C. Kayser*¹ and R. A. Hill², ¹*Univer-
sity of Idaho, Grand View*, ²*University
of Idaho, Moscow.*
- 2:00 pm 019 **Effects of level and source of
supplemental trace minerals on
growth responses of beef calves
received from New Mexico ranches.**
M. Garcia*¹, E. R. Oosthuisen¹, J. R.
Graves¹, M. E. Hubbert², M. E.
Branine³, C. A. Loest¹, and E. J.

Scholljegerdes¹, ¹New Mexico State University, Las Cruces, ²New Mexico State University, Clayton, ³Zinpro Corporation, Eden Prairie, MN.

PHYSIOLOGY

**Chair: Dennis Hallford, New Mexico State University
University Center, Room 100**

- 2:15 pm 020 **A preliminary report on the impact of cryopreservation diluent on ram sperm physiology and cervical artificial insemination.** P. H. Purdy^{*1}, S. F. Spiller¹, S. D. Rice¹, K. L. Koepke², E. M. McGuire³, K. E. McGuire³, R. Stobart⁴, and H. D. Blackburn¹, ¹USDA-ARS-National Animal Germplasm Program, Fort Collins, CO, ²University of Wyoming-Laramie Research and Extension Center, Laramie, ³Desert Weyr, LLC, Paonia, CO, ⁴University of Wyoming Department of Animal Science, Laramie.
- 2:30 pm 021 **Temporal patterns of metabolites, metabolic hormones, and progesterone concentrations and lambing rates in Rambouillet ewes selected for high and low reproductive rate.** J. D. Swartz^{*}, J. G. Berardinelli, J. M. Thomson, M. Lachman, K. Westveer, R. Herrygers, R. W. Kott, P. G. Hatfield, and C. J. Yeoman, *Montana State University, Bozeman.*
- 2:45 pm 022 **Effects of GnRH and prostaglandin combined with a short progestin regimen on the synchrony of estrus and ovulation in Suffolk ewes during the breeding season.** J. W. Dickison^{*}, M. W. Salisbury, C. B. Scott, and A. K. Calhoun, *Angelo State University, San Angelo, TX*

ENVIRONMENT AND LIVESTOCK MANAGEMENT

**Chair: Mark Petersen, USDA, ARS, Miles City, MT
University Center, Room 100**

- 3:00 am 023 **Consequence of perennial and annual forage grazing systems before feedlot entry on yearling steer grazing and feedlot performance, carcass measurements, meat evaluation, and system net return.** S. Senturklu^{*1,2}, D. G. Landblom¹, R. J. Maddock³, and S. I. Paisley⁴, ¹*Dickinson Research Extension Center, North Dakota State University, Dickinson*, ²*Canakkale Onsekiz Mart Universitesi, Canakkale, Turkey*, ³*North Dakota State University, Fargo*, ⁴*Department of Animal Science, University of Wyoming, Laramie.*
- 3:15 pm 024 **Effects of weaning method on weaning-and growing-phase performance by early-weaned calves.** G. W. Preedy^{*1}, J. W. Waggoner², J. R. Jaeger³, and K. Olson¹, ¹*Kansas State University, Manhattan*, ²*Kansas State University, Garden City*, ³*Kansas State University, Hays.*
- 3:30 pm 025 **Can method of weaning and subsequent development impact heifer fitness?** M. K. Petersen^{*}, J. M. Muscha, A. J. Roberts, and R. C. Waterman, *USDA-ARS Fort Keogh Livestock and Range Research Laboratory, Miles City, MT.*
- 3:45 pm 026 **Effects of QuietWean nose flap devices applied to calves on cow and calf performance.** K. D. Lippolis^{*}, C. Whittier, K. A. Linton, R. K. Peel, and J. K. Ahola, *Colorado State University, Fort Collins.*

POSTER PRESENTATIONS

4:00 to 5:30 pm

University Center, Room 101 - 104

UNDERGRADUATE POSTER COMPETITION

Chair: Jim Berardinelli, Montana State University

- P1 **Assessment of bacterial diversity of horses as influenced by age.** A. L. Garza*, A. Salazar, K. H. Marchetti, L. M. White, and S. L. Ivey, *New Mexico State University, Las Cruces.*
- P2 **Gene expression of skeletal muscle of red face Hereford steers.** B. Engle*, J. M. Thomson, and J. A. Boles, *Montana State University, Bozeman.*
- P3 **Effects of brewer's yeast on growth performance and carcass measures of Angus-influenced feedlot finishing steers.** K. A. Moore*, K. L. DeAtley, and S. P. Doyle, *California State University-Chico.*
- P4 **Expression of membrane progesterone receptors and select angiogenic factors are altered in ewes treated with hCG.** N. S. Sanchez*, M. P. T. Coleson, T. T. Ross, K. E. Quinn, A. K. Ashley, and R. L. Ashley, *New Mexico State University, Las Cruces.*
- P5 **Effects of glucose and insulin bolus on individual response between mature and senior horses being fed alfalfa hay.** M. S. Crouse*, A. L. Salazar, D. M. Hallford, S. L. Ivey, and L. M. White, *New Mexico State University, Las Cruces.*
- P6 **Effects of inclusion of microalgae Scenedesmus on fatty acid digestion in beef heifers consuming a forage-based diet.** N. M. Rodriguez*, C. M. Buck, F. R. Melgar, L. H. Schmitz, A. L. Salazar, K. H. Marchetti, S. L. Ivey, M. P. T. Coleson, C. B. Gardner, J. R. Graves, and E. J. Scholljegerdes, *New Mexico State University, Las Cruces.*

- P7 **Comparable digestibility of alfalfa hay by senior and mature horses.** F. R. Melgar*, A. L. Salazar, L. R. Owensby, S. L. Ivey, and L. M. White, *New Mexico State University, Las Cruces.*

BEHAVIOR

Chair: Bret Taylor, USDA, ARS, Dubois, ID

- P8 **Performance of raising dairy calves by adding 15% ground alfalfa to a calf starter.** J. S. Saucedo^{*1}, L. Avendaño¹, A. Perez¹, E. Avelar¹, and M. P. Gallegos², ¹*Instituto de Ciencias Agricolas de la Universidad Autonoma de Baja California, Mexicali, Baja California, CA, Mexico*, ²*Facultad de Medicina Veterinaria y Zootecnia de la Universidad Juarez del Estado de Durango, Durango, Durango, Mexico.*
- P9 **Influence of the energy supplementation on voluntary intake and digestibility of ryegrass (*Lolium multiflorum*) hay fed to Holstein steers.** G. Inzunza¹, R. A. Zinn², E. G. Alvarez-Almora^{*1}, E. Vazquez¹, B. Gutierrez¹, A. Basilio¹, J. Santillano¹, N. Torrentera¹, and D. Calderon¹, ¹*UABC, Mexicali, Mexicali, Mexico*, ²*University of California-Davis, El Centro.*

BREEDING AND GENETICS

Chair: Andy Herring, Texas A & M

- P10 **Comparison of crossbred heifers mated naturally to Red Poll bulls for production.** A. P. Marquez^{*1} and J. S. Saucedo², ¹*Universidad Autonoma De Baja California, Calexico, CA*, ²*Instituto de Ciencias Agricolas de la Universidad Autonoma De Baja California, Mexicali, Baja California, CA, Mexico.*

- P11 **Weight, body condition and postpartum ovarian resumption in Holstein Friesian cows.** M. P. Gallegos^{*1}, J. A. Toca¹, J. R. Cervantes², J. S. Saucedo³, and E. Avelar³, ¹*Facultad de Medicina Veterinaria y Zootecnia de la Universidad Juarez del Estado de Durango, Durango, Durango, Mexico*, ²*Union Ganadera Regional del Estado de Nuevo León, Monterrey Nuevo León, Mexico*, ³*Instituto de Ciencias Agricolas de la Universidad Autonoma de Baja California, Mexicali, Baja California, Mexico.*
- P12 **Retrospective analysis of the reproductive performance of dairy cattle in a semi-arid region of south central Durango Mexico.** J. C. Curiel¹, J. R. Cervantes², J. S. Saucedo³, E. Avelar³, and M. P. Gallegos^{*1}, ¹*Facultad de Medicina Veterinaria y Zootecnia de la Universidad Juarez del Estado de Durango, Durango, Durango, Mexico*, ²*Union Ganadera Regional del Estado de Nuevo León, Monterrey Nuevo León, Mexico*, ³*Instituto de Ciencias Agricolas de la Universidad Autonoma de Baja California, Mexicali, Baja California, Mexico.*

ENVIRONMENT AND LIVESTOCK MANAGEMENT

Chair: Mark Petersen, USDA, ARS, Miles City, MT

- P13 **Effects of zilpaterol hydrochloride supplementation on growth performance, carcass characteristics and production economics of steers differing in biological type.** J. O. Fulton^{*1}, K. C. Olson², J. J. Kincheloe², A. A. Harty², M. K. Luebke³, K. R. Underwood¹, S. M. Scramlin¹, and A. D. Blair², ¹*South Dakota State University, Brookings*, ²*South Dakota State University, Rapid City*, ³*University of Nebraska-Lincoln, Scottsbluff.*

GROWTH AND DEVELOPMENT

Chair: John Hall, University of Idaho

- P14 **Effects of nutrition level during lactation and rearing periods on growth patterns, puberty onset and fertility rate in beef heifers.** S. Santos*, A. Sanz, and I. Casasús, *CITA-Aragón, Zaragoza, Spain.*
- P15 **Performance of Nellore steers in immunocastration and surgical castration supplemented on tropical pastures in Rondônia -Brazil.** J. Cavali¹, K. H. M. Mota², M. O. Porto¹, A. A. Demeu², E. Ferreira³, L. M. Pinheiro⁴, M. C. A. Santana⁵, and A. Cavalcante-Neto⁶,
¹Universidade Federal de Rondônia, Presidente Médici - RO, Brazil, ²Faculdades Integradas Aparicio de Carvalho, Porto Velho, Brazil, ³Universidade Federal de Rondônia, Rolim de Moura, Brazil, ⁴Universidade Federal de Rondônia, Porto Velho, Brazil, ⁵Emater, Goiás, Brazil, ⁶Universidade Federal do Paraná - Laboratório de Sistematização, Análise e Modelagem em Produção e Nutrição Animal, Paraná, Brazil.
- P16 **Effects of nutrition level during lactation and rearing periods on growth patterns, puberty onset and fertility rate in beef heifers.** J. A. Rodriguez-Sanchez*, A. Sanz, and I. Casasús, *CITA-Aragón, Zaragoza, Spain.*

FRIDAY, JUNE 27, 2014

WSASAS Annual Business Meeting

University Center 100

7:30 to 9:00 am

ORAL PRESENTATIONS

PASTURES AND FORAGES

*Chair: Jack Whittier, Colorado State University
University Center, Room 100*

- 9:15 am 027 **Effects of ingestion and influence of screen or solid bottom collection bags on nutrient composition of vegetative or dry alfalfa and grass masticate samples collected from esophageally fistulated cattle.** J. A. Musgrave^{*1}, J. V. Judy¹, L. A. Stalker¹, T. J. Klopfenstein¹, and K. H. Jenkins², ¹University of Nebraska, Lincoln, ²University of Nebraska, Scottsbluff.
- 9:30 am 028 **Influence of supplement composition on utilization of low-quality cool-season forages by beef cattle.** D. L. McGuire¹, D. W. Bohnert^{*1}, B. I. Cappellozza¹, M. D. M. Reis¹, R. S. Marques¹, K. C. Swanson², S. J. Falck³, and R. F. Cooke¹, ¹Oregon State University - EOARC Burns, ²North Dakota State University, Fargo, ³USDA-ARS; EOARC Burns.
- 9:45 am 029 **Stocking rate effects on Nebraska Sandhills upland range grazed forage nutrient composition in early summer pastures.** J. V. Judy^{*1}, J. A. Musgrave¹, L. A. Stalker¹, K. H. Jenkins², and T. J. Klopfenstein¹, ¹University of Nebraska, Lincoln, ²University of Nebraska, Scottsbluff.

10:00 am 030 **Grazing effects on Nebraska Sand-hills meadow diet nutrient composition.** J. V. Judy^{*1}, J. A. Musgrave¹, L. A. Stalker¹, K. H. Jenkins², and T. J. Klopfenstein¹, ¹*University of Nebraska, Lincoln*, ²*University of Nebraska, Scottsbluff*.

10:15 am **Break**

RUMINANT AND NON-RUMINANT NUTRITION

*Co-Chairs: Eric Scholljegerdes and Sergio Soto-Navarro, New Mexico State University
University Center, Room 100*

10:30 am 031 **Supplementation based on protein or energy ingredients to beef cattle consuming low-quality cool-season forages: II. Forage disappearance parameters in rumen-fistulated steers and physiological responses in pregnant heifers.** B. I. Cappellozza^{*1}, R. F. Cooke¹, T. Guarnieri Filho², and D. W. Bohnert¹, ¹*Oregon State University - EOARC Burns*, ²*Faculdade de Medicina Veterinária e Zootecnia, UNESP – Univ. Estadual Paulista, Botucatu, Brazil*.

10:45 am 032 **Performance of pregnant beef cows limit-fed diets containing wheat straw treated with two rates of anhydrous ammonia and wet distiller's grain.** J. W. Waggoner^{*1} and J. R. Jaeger², ¹*Kansas State University, Garden City*, ²*Kansas State University, Hays*.

11:00 am 033 **Evaluation of novel nasal and intestinal inoculants for feedlot receiving calves.** E. R. Oosthuysen^{*1}, M. E. Hubbert², M. Garcia¹, M. R. Garner³, and C. A. Loest¹, ¹*New Mexico State University, Las Cruces*, ²*New Mexico State University, Clayton*, ³*MicroBios Inc., Ithaca, NY*.

- 11:15 am 034 **Effect of wheat middling supplementation on metabolizable protein of heifers grazing winter wheat pasture.** F. M. Amraga*, J. D. Caballero, and S. A. Soto-Navarro, *New Mexico State University, Las Cruces.*
- 11:30 am 035 **Predicting the forage intake by lactating beef cows.** S. A. Gunter*, *USDA-ARS, Southern Plains Range Research Station, Woodward, OK.*
- 11:45 am 036 **Cobalt supplementation in pre-weaned beef calves affects humoral immune response and feedlot health.** B. B. Sager*, C. J. Yeoman, and G. C. Duff, *Montana State University, Bozeman.*
- 12:00 pm 037 **Monensin and plant extracts in developing heifer rations.** M. C. Fischer*, J. K. Ahola, B. J. Bigler, J. C. Whittier, and R. K. Peel, *Colorado State University, Fort Collins.*

POSTER PRESENTATIONS

11:00 am to 12:30 pm
University Center, Room 101 - 104

PHYSIOLOGY

*Chair: Dennis Hallford,
 New Mexico State University*

- P17 **Effect of delaying time of insemination in a fixed-timed AI protocol on pregnancy rates to sexed semen in postpartum beef cows.** J. B. Hall¹, J. B. Glaze, Jr.², and W. K. Smith¹, ¹*University of Idaho, Carmen*, ²*University of Idaho, Twin Falls.*
- P18 **Effects of hCG administration in ewes post mating on production of 3 β -hydroxysteroid dehydrogenase, steroidogenic acute regulatory protein, and interferon-stimulated gene 15.** M. P. T. Coleson*, R. L. Ashley, and T. T. Ross, *New Mexico State University, Las Cruces.*

RUMINANT AND NON-RUMINANT NUTRITION

Co-Chairs: Eric Scholljegerdes and Sergio Soto-Navarro, New Mexico State University

- P19 **Effect of dried salmon silage on productive performance and gizzard health of broiler.** C. Valenzuela^{*1}, F. Carvalho², N. Dale³, and P. Reyes¹, ¹*Universidad de Chile, Santiago, Chile*, ²*University of California, Davis, San Bernardino*, ³*University of Georgia, Athens*.
- P20 **Capsaicin influences rumen microbial fermentation and gas production in vitro.** J. B. Alford^{*}, B. L. Slayton-Magitman, S. Gutierrez, J. G. Castro, F. A. Allataifeh, and C. A. Loest, *New Mexico State University, Las Cruces*.
- P21 **Levels of supplementation in the performance for beef heifers, in grazing, during the dry season.** M. O. Porto^{*1}, J. Cavali¹, M. F. Paulino², S. C. Valadares Filho³, E. Detmann⁴, M. F. L. Sales⁵, V. R. M. Couto⁶, J. P. I. S. Monnerat², and A. A. R. Assis¹, ¹*Universidade Federal de Rondônia, Presidente Médici - RO, Brazil*, ²*Universidade Federal de Viçosa, Viçosa, Brazil*, ³*Universidade Federal de Viçosa, Department of Animal Science, Viçosa, Minas Gerais, Brazil*, ⁴*Universidade Federal de Viçosa, Viçosa, Minas Gerais, Brazil*, ⁵*Embrapa - Rio Branco - Acre, Rio Branco, Brazil*, ⁶*Universidade Federal de Goiás, Goiânia, Brazil*.
- P22 **Plasma amino acids of wether lambs supplemented with novel feed products to reduce locoweed toxicity.** F. A. Allataifeh^{*1}, J. B. Taylor², L. Chen¹, M. N. Sawalhah¹, and C. A. Loest¹, ¹*New Mexico State University, Las Cruces*, ²*USDA, ARS, Salmon, ID*.

- P23 **Effects of inorganic trace mineral or amino acid complexed trace mineral supplementation of barley-based receiving and finishing diets on growth performance, carcass merit and health of growing-finishing feedlot steers fed ractopamine.** M. E. Branine^{*1}, C. K. Larson¹, M. Quinn², A. C. Grant³, and L. S. Schake⁴, ¹*Zinpro Corporation, Eden Prairie, MN*, ²*Zoetis Animal Health, Amarillo, TX*, ³*Nutrition Service Associates, Okotoks, AB, Canada*, ⁴*Nutrition Service Associates, Wimberley, TX.*
- P24 **Effect of dietary level of oregano essential oil on carcass characteristics of finishing hair lambs.** G. Villalobos^{*}, D. Enriquez Mata, D. Dominguez, F. Castillo, and J. A. Ortega, *Universidad Autonoma de Chihuahua, Chihuahua, Mexico.*
- P25 **Capsaicin supplementation does not reduce lipopolysaccharide-induced inflammation in growing beef steers.** K. L. Samuelson^{*1}, C. Ikard¹, J. B. Alford¹, J. G. Castro¹, S. Gutierrez¹, F. A. Allataifeh¹, B. L. Slayton-Magitman¹, N. C. Burdick Sanchez², J. A. Carroll², A. K. Ashley¹, E. J. Scholljegerdes¹, D. M. Hallford¹, and C. A. Loest¹, ¹*New Mexico State University, Las Cruces*, ²*USDA-ARS, Livestock Issues Research Unit, Lubbock, TX.*
- P26 **Effect of dietary level of cull pinto beans (*Phaseolus vulgaris*) on carcass characteristics of finishing hair lambs.** F. Castillo^{*}, G. Villalobos, D. Dominguez, J. A. Ortega, and F. A. Nùñez, *Universidad Autonoma de Chihuahua, Chihuahua, Mexico.*

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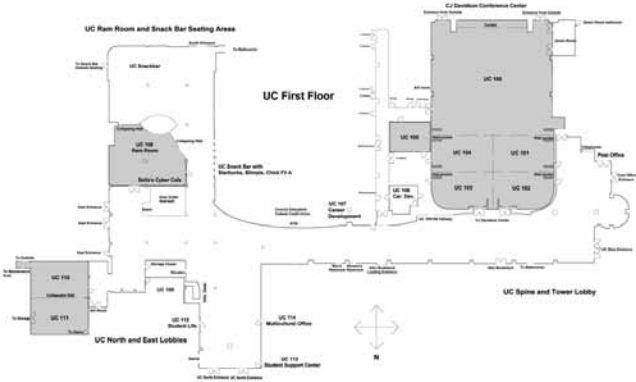
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- 2012 New Mexico State University
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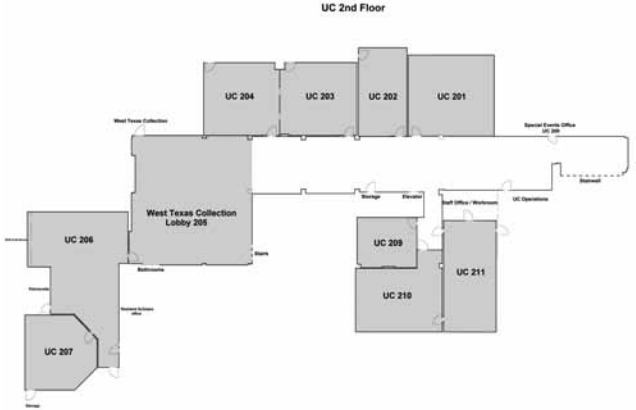
- 2013 K. P. Sharon, M.S., Montana State University
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