

**CLINT A. LÖEST**

**ADDRESS:**

Department of Animal and Range Sciences, New Mexico State University  
Las Cruces, NM 88003

**EDUCATION:**

Ph.D.	1999	Ruminant Nutrition	Kansas State University, Manhattan
M.S.	1995	Animal Nutrition	University of Free State, S. Afr.
B.S.	1993	Animal Science	University of Free State, S. Afr.

**EMPLOYMENT:**

2012-present: Professor of Animal and Range Sciences, New Mexico State University, Las Cruces. 60% Research, 40% Teaching.

2007-2012: Associate Professor of Animal and Range Sciences, New Mexico State University, Las Cruces. 60% Research, 40% Teaching.

2001-2007: Assistant Professor of Animal and Range Sciences, New Mexico State University, Las Cruces. 60% Research, 40% Teaching.

2000-2001: Postdoctoral Research Associate, Kansas State University, Manhattan. 100% Research.

**HONORS AND AWARDS:**

2018: Western Section American Society of Animal Science Distinguished Teacher Award.

2010: Western Section American Society of Animal Science Young Scientist Award.

2009: Gamma Sigma Delta, the Honor Society of Agriculture Distinguished Award for Graduate Teaching and Advisement.

2007: NMSU College of Agriculture and Home Economics Distinguished Teaching Award.

2005: Ronald E. McNair Post-Baccalaureate Achievement Program Mentor Award.

**PROFESSIONAL ACTIVITIES AND ACCOMPLISHMENTS:**

- Federal Grant Funding:
  - USDA-NIFA NextGen (2023-2028); LEADING Hispanics to Federal Agency Employment.
  - USDA (2021-2026); Nutrient supplementation via drinking water.
  - USDA-HSI (2017-2022); Advancing LEADERS 2 the Doctorate.
  - USDA-HSI (2013-2017); The LEADERS program: Learning, Enhancing, and Developing Experiential Research Skills.
  - USDA (2013-2018); Dietary nutrients and amino acids for calf health and performance.
  - DOE (2010-2015); National Alliance for Advanced Biofuels and Bio-Products.
  - USDA-ARS (2009-2011); Evaluation of whole corn substitution in steam-flaked corn diets containing differing levels of wet distiller's grains.
  - USDA-AFRI (2007-2011); Development of methods and decision-making tools to enable stakeholders to improve calf well-being: An integrated approach.
  - NSF (2002-2005); Environmental Research, Monitoring, and Assessment.
- Professional Memberships and Service:
  - Member, American Society of Animal Science (1996-present).
  - Member, American Dairy Science Association (2003-present).
  - Editorial Board (2002-2005) and Associate Editor (2009-2011), Journal of Animal Science.
  - Member and President (2008), Gamma Sigma Delta, The Honor Society of Agriculture
  - Member, 6 Committees, Western Section American Society of Animal Science (2001-present).

**PUBLICATIONS (FROM 329 TOTAL):**

- Samuelson, K. L., M. E. Hubbert, E. R. Oosthuisen, and **C. A. Löest**. 2023. Effects of protein concentration and degradability on performance, carcass characteristics, net energy utilization, and metabolizable protein balance of finishing heifers receiving 0 or 400 mg ractopamine hydrochloride. *Appl. Anim. Sci.* 39:56-68; doi.org/10.15232/aas.2022-02351.
- Sanchez-Sandoval, U. A., J. J. Figueroa-Zamudio, J. Ramirez, H. L. Walker, **C. A. Löest**, S. A. Soto-Navarro, and B. G. Smythe. 2023. Influence of monensin and diflubenzuron on the control of immature horn fly and house fly (Diptera: Muscidae) and chemical composition of cattle feces. *J. Med. Entomol.* 60:417-421; doi.org/10.1093/jme/tjac187.
- Zubia, K. M., A. Akter, B. H. Carter, M. R. McDaniel, G. C. Duff, and **C. A. Löest**. 2023. Effects of supplementing milk replacer with essential amino acids on blood metabolites, immune response, and nitrogen metabolism of Holstein calves exposed to an endotoxin. *J. Dairy Sci.* 106: doi.org/10.3168/jds.2022-22708.
- Martinez, J. J., **C. A. Löest**, K. C. McCuiston, D. B. Wester, and N. L. Bell. 2022. Effects of monensin and protein supplementation on intake, digestion, and ruminal fermentation in beef cattle consuming low-quality forage. *Appl. Anim. Sci.* 38:13-21.
- McDaniel, M. R., L. N. Tracey, N. A. Cole, S. L. Ivey, and **C. A. Löest**. 2021. Evaluation of whole corn substitution in diets based on steam-flaked corn containing different concentrations of wet distillers grains with solubles for beef cattle. *Appl. Anim. Sci.* 37:140-154.
- Ferranti, E. M., B. H. Aloqaily, C. A. Gifford, K. K. Forrest, **C. A. Löest**, J. C. Wenzel, J. A. Hernandez Gifford. 2021. Effects of lipopolysaccharide on beta-catenin, aromatase, and estrogen production in bovine granulosa cells in vivo and in vitro. *Dom. Anim. Endocrinol.* 78: doi.org/10.1016/j.domaniend.2021.106652.
- Birkenstock, B., M. Catey, S. McIntosh, F. Lopez, L. Klump, R. Ashley, E. J. Scholljegerdes, and **C. A. Löest**. 2020. Leucine supplementation alters immune responses and blood metabolites of lambs exposed to endotoxin. *J. Anim. Sci.* 98(Suppl. S4):424(Abstr.).
- Smith, K. E., Z. Bester, M. E. Hubbert, and **C. A. Löest**. 2020. Relationship between liver abscess microbiome of feedlot cattle and soil organic matter microbiome isolated from feedlot pens. *J. Anim. Sci.* 98(Suppl. S4):278(Abstr.).
- Smith, K. E., Z. Bester, K. M. Butterfield, C. M. Mercier, M. E. Hubbert, and **C. A. Löest**. 2019. Association of liver abscess bacterial population in feedlot cattle to soil organic material bacterial from isolated feedlot pens. *Transl. Anim. Sci.* 2:S1(Abstr.).
- Ferranti, E. M., B. H. Aloqaily, C. A. Gifford, **C. A. Löest**, J. C. Wenzel, and J. A. Hernandez Gifford. 2018. Lipopolysaccharide modulation of ovarian hormonal profile. *Transl. Anim. Sci.* 2:S31-S34.
- Löest, C. A.**, G. G. Gilliam, J. W. Waggoner, and J. L. Turner. 2018. Post-ruminal branched-chain amino acid supplementation and intravenous lipopolysaccharide infusion alters blood metabolites, rumen fermentation, and nitrogen balance of beef steers. *J. Anim. Sci.* 96:2886-2906.
- Lopez, F. A., E. R. Oosthuisen, G. C. Duff, J. T. Richeson, K. L. Samuelson, M. E. Hubbert, and **C. A. Löest**. 2018. Health, performance, and complete blood counts of newly received feedlot heifers in response to an oral drench of water and crude glycerin. *Transl. Anim. Sci.* 2:S74-S78.
- Carey, R. E., K. L. Samuelson, E. R. Oosthuisen, F. A. Lopez, S. L. Pillmore, L. T. Klump, N. C. Burdick Sanchez, J. A. Carroll, J. A. Hernandez Gifford, and **C. A. Löest**. 2017. Glycerin supplementation via drinking water alters nitrogen balance and immune response of beef steers during an endotoxin challenge. *Proc. West. Sec. Am. Soc. Anim. Sci.* 68:70-75.
- Oosthuisen, E. R., M. E. Hubbert, J. R. Graves, **C. A. Löest**, and E. J. Scholljegerdes. 2017. The effects of delayed processing on hydration status, health, and performance of newly received feedlot heifers. *Proc. West. Sec. Am. Soc. Anim. Sci.* 68:299-303.
- Oosthuisen, E. R., M. E. Hubbert, R. E. Carey, K. L. Samuelson, F. A. Lopez, L. T. Klump, S. L. Pillmore, and **C. A. Löest**. 2017. Blood oximetry responses of glycerin-supplemented and immune-challenged calves. *Proc. West. Sec. Am. Soc. Anim. Sci.* 68:230-234.
- Miller, T. J., M. E. Hubbert, C. D. Reinhardt, **C. A. Löest**, E. F. Schwandt, and D. U. Thomson. 2016. Comparison of tulathromycin, tilmicosin, and gamithromycin: Metaphylactic treatments in high risk calves for bovine respiratory disease. *Bov. Pract.* 50:174-178.
- Samuelson, K. L., M. E. Hubbert, and **C. A. Löest**. 2016. Effects of dietary urea concentration and zilpaterol hydrochloride on performance and carcass characteristics of finishing steers. *J. Anim. Sci.* 94:5350-5358.
- Samuelson, K. L., M. E. Hubbert, M. L. Galyean, and **C. A. Löest**. 2016. Nutritional recommendations of feedlot consulting nutritionists: The 2015 New Mexico State and Texas Tech University survey. *J. Anim. Sci.* 94:2648-2663.
- Mulliniks, T., J. Sawyer, F. Harrelson, C. P. Mathis, S. Cox, **C. A. Löest**, and M. K. Petersen. 2015. Effect of late gestation body weight change and condition score on progeny feedlot performance. *Anim. Prod. Sci.* http://dx.doi.org/10.1071/AN15025.
- Waterman, R. C., J. S. Caton, **C. A. Löest**, M. K. Petersen, and A. J. Roberts. 2014. An assessment of the 1996 Beef NRC: Metabolizable protein supply and demand and effectiveness of model performance prediction of beef females within extensive grazing systems. *J. Anim. Sci.* 92:2785-2799.
- Gunter, S. A., T. L. Springer, **C. A. Löest**, and J. J. Goldman. 2013. Effect of processing method on in sacco ruminal degradability of organic matter and nitrogen from canola seeds and in vitro intestinal nitrogen digestion of the in sacco residue. *Anim. Prod. Sci.* 54:1030-1038.
- Malesky, S. M., J. L. Turner, **C. A. Löest**, L. Chen, and J. Browne-Silva. 2013. Nitrogen retention and plasma amino acid responses in mature geldings fed three dietary concentrations of lysine. *J. Equine Vet. Sci.* 33:733-738.
- Endecott, R. L., S. H. Cox, C. M. Rubio, **C. A. Löest**, D. E. Hawkins, and M. K. Petersen. 2012. Effects of supplements with increasing glucogenic precursor content on reproduction and nutrient utilization in young postpartum range cows. *Lvst. Sci.* 145:109-118.
- Yates, D. T., **C. A. Löest**, T. T. Ross, D. M. Hallford, B. H. Carter, and S. W. Limesand. 2011. Effects of bacterial lipopolysaccharide injection on white blood cell counts, hematological parameters, and serum glucose, insulin, and cortisol concentrations in ewes fed low- or high-protein diets. *J. Anim. Sci.* 89:4286-4293.
- Yates, D. T., G. L. Strosser, P. L. Black, R. A. Halalshah, L. M. Lankford, L. L. Hernandez, **C. A. Löest**, T. T. Ross. 2010. Technical note: Effects of rumen passage on fluoxetine bioavailability in serum and effects of fluoxetine on serum prolactin concentration and demeanor in ewes. *J. Anim. Sci.* 88:3611-3616.