

Curriculum Vitae

I. Personal Data

Name: William E. Pinchak
Rank: Professor
Unit: Chillicothe/Vernon Research and Extension Center
Date of Appointment: July 1, 1984
Date of Last Promotion: 2006

II. A. Education

Ph.D. Range Management. Collateral Field: Animal Science and Statistics. University of Wyoming, December 1983.
B.S. Biology. Minors: Chemistry and Agriculture. Angelo State University, 1978.

B. Experience

1976-1978. Undergraduate Assistant. Angelo State University.
1979-1983. Graduate Research Assistant. University of Wyoming.
1983-1984. Assistant Professor. Colorado State University.
1984-1990. Assistant Professor. Texas Agricultural Experiment Station.
1990-2006. Associate Professor. Texas Agricultural Experiment Station.
2007-present Professor, Texas A&M AgriLife research

III. Professional Societies and Awards

A. Professional Affiliations

1. Society for Range Management
2. American Society of Animal Science
3. Plains Nutrition Council
4. Southwest Wheat Research and Education Consortium
5. Texas Beef Workers Group
6. Texas Forage and Pastures Work Group
7. USDA-CREES WERA 110 Regional Coordinating Committee "Improving ruminant use of forages in sustainable production systems for the western U.S."

B. Awards and Honors

1. Outstanding Achievement Award, Society for Range Management, 2003.
2. Outstanding Professor, Range Science Department, Colorado State University, 1984.
3. Outstanding Graduate Student Scholarship, University of Wyoming, 1981.
4. Outstanding Active, Beta Beta Beta, Angelo State University, 1978.

IV. Research Activities

A. Acquisition of Research Funds

Summary of Funded Grant Activity

Type	Number	Total Funding	W. E. Pinchak
External Competitive	14	\$ 3,832,702	\$ 535,557
External Non-Competitive	23	\$ 789,652	\$ 395,081
Internal	31	\$ 1,794,287	\$ 277,701
In-Kind Corporate	10	\$ 317,000	\$ 97,000
Total	78	\$ 6,733,641	\$ 1,507,956

B. Publications

Summary of Publication Types

Publication Type

Peer-Reviewed Journal Articles	82
<i>Book Chapters</i>	1
<i>Conference Symposium Proceedings</i>	41
<i>Non-peer, Editor-reviewed Articles</i>	50
<i>Sub-total</i>	174
<i>Abstracts and Presentations</i>	
<i>Invited (Intl/National)</i>	13
<i>Volunteer (Intl/National)</i>	90
<i>Invited (Regional/State/Local)</i>	169
<i>Sub-total</i>	272
<i>Software/Decision Aids</i>	2
<i>Miscellaneous (Grant Reports, etc)</i>	35
<i>Total</i>	483

Refereed journal articles-Publications senior-authored by graduate students or support staff that were directly supervised by W. E. Pinchak. These publications are denoted with an asterisk following the senior author's name.

1. Pinchak, W. E., M.A. Smith, and J. W. Waggoner, Jr. 1981. Summer distribution of beef cattle on elk winter range In: Summaries of papers XIV Int. Grassland Congress. Lexington, KY. p. 369.

2. Greene, L.W., W.E. Pinchak and R.K. Heitschmidt. 1987. Seasonal dynamics of minerals in forages at the Texas Experimental Ranch. *J. Range Manage.* 40:502.
3. Pinchak, W.E., L.W. Greene and R.K. Heitschmidt. 1989. Mineral quality of beef cattle diets. *J. Range Manage.* 42:431-433.
4. Heitschmidt, R.K., S.K. Canon, J.R. Conner, W.E. Pinchak, S.L. Dowhower and J.W. Walker. 1989. Effects of year-long continuous, deferred rotation, and short duration grazing treatments on cow/calf production at the Texas Experimental Ranch. *J. Agric. Prod.* 3:92-99.
5. Heitschmidt, R.K., S.L. Dowhower, W.E. Pinchak, S.K. Canon. 1989. Longterm effects of heavy and moderate rates of stocking on quantity and quality of forage available. *J. Range Manage.* 42:468-473.
6. Slosser, J.E., W.E. Pinchak and D.R. Rummel. 1989. A review of known and potential factors affecting the population dynamics of the cotton aphid. *Southwest. Entomol.* 14:302-313.
7. Pinchak, W.E., R.K. Heitschmidt, S.K. Canon and S.L. Dowhower. 1990. Longterm effects of heavy and moderate rates of stocking on diet selection and nutrient intake patterns. *J. Range Manage.* 43:304-309.
8. Pinchak, W.E., L.W. Greene and L.J. Hunt. 1990. Salivary mineral contamination of esophageal fistula extrusa. *J. Range Manage.* 43:136-138.
9. Pinchak, W.E., M.A. Smith, R.H. Hart and J.W. Waggoner, Jr. 1991. Beef cattle distribution patterns on foothill range. *J. Range Manage.* 44:267-275.
10. Pinchak, W.E. and D. P. Hutcheson. 1992. Effect of restricted forage intake in confinement on estimated fecal output from a sustained release bolus. *J. Range Manage.* 45:129-132.
11. Slosser, J.E., W.E. Pinchak and W.A. Frank 1992. Effect of planting date on cotton aphid and banded-winged whitefly populations in dryland cotton. *Southwest. Entomol.* 17:89-100.
12. Stangl, F.B., Jr. T.S. Schafer, J.R. Goetze and W.E. Pinchak. 1992. Opportunistic use of modified and disturbed habitat by the Texas kangaroo rat (*Dipodomys elator*). *Texas J. Sci.* 44:25-35.

13. Hunt, L.J.*, W.E. Pinchak and D.P. Hutcheson. 1995. Effects of incubation time and sodium sulfite on in-vitro digestibility and filtering time. *J. Range Manage.* 48:451-454.
14. Ansley, R.J., W.E. Pinchak and D.N. Ueckert. 1995. Changes in redberry juniper distribution in northwest Texas (1948 to 1982). *Rangelands* 17:49-53.
15. Pinchak, W.E., W.D. Worrall, S.P. Caldwell, L.J. Hunt, N.J. Worrall and M. Conoly. 1996. Effect of wheat cultivar on forage and cattle production under graze-out management. *J. Range. Manage.* 49:126-130.
16. Rummel, D. R., M. D. Arnold, J. E. Slosser, K. C. Neece and W. E. Pinchak. 1996. Cultural factors influencing the abundance of *Aphis gossypii* Glover in the Texas High Plains. *Southwest. Entomol.* 20:395-406.
17. Teague, W. R., S. L. Dowhower, W. E. Pinchak, L. J. Hunt and D. R. Tolleson. 1996. Increasing utilization efficiency of continuously stocked Old World bluestem pasture. *J. Range Manage.* 49:535-540.
18. Slosser, J. E., R. Montandon, W. E. Pinchak and D. R. Rummel. 1997. Cotton aphid response to nitrogen fertility in dryland cotton. *Southwest. Entomol.* 22:1-10.
19. Slosser, J. E. , G. B. Idol, D. R. Rummel and W. E. Pinchak. 1997. Influence of plant maturity and application timing on efficacy of dicotophos for control of cotton aphid. *Southwest. Entomol.* 22:207-215.
20. Teague, R., R. Borchardt, J. Ansley, B. Pinchak, J. Cox, J. Foy and J. McGrann. 1997. Sustainable management strategies for mesquite rangeland: The Waggoner Kite Project. *Rangelands* 19:4-8.
21. Tolleson, D. R.*, W. E. Pinchak, D. R. Rollins and R. J. Ansley. 1997. Habitat type and prescribed burning impacts on feral swine depredation of artificial quail nests. In: L. A. Brennan et al. (eds.). *Quail IV: Proceedings of the Fourth Annual Quail Symposium*, Tall Timbers Research Station, Tallahassee, FL.
22. Parajulee, M., R. Montandon, J. E. Slosser, S. L. Dowhower and W.E. Pinchak. 1997. Rangeland grasshopper (Orthoptera: Acridae) associated with mesquite and juniper habitats in the Texas Rolling Plains. *Environ. Entomol.* 26:528-536.
23. Dowhower, S.L., W.R. Teague, R.J. Ansley, and W.E. Pinchak. 2001. Dry-weight-rank method assessment in heterogenous communities. *J. Range Manage.* 54:71-74.

24. Teague, W. R., R.J. Ansley, U.P. Kreuter, W.E. Pinchak and J.M. McGrann. 2001. Economics of managing mesquite in north Texas: a sensitivity analysis. *J. Range Manage.* 54:553-560.
25. Malinowski, D. P.*, W. E. Pinchak, T. A. Baughman and G. Antilley. 2002. Effects of nitrogen liquid fertilizer/herbicide mixtures on the establishment of wheatgrasses in the Texas Rolling Plains. *Texas J. Agric. Nat. Resources* 14: 58-67.
26. Kneuper, C,* C. J. Scott and W.E. Pinchak. 2003. Consumption and dispersion of mesquite seeds by ruminants. *J. Range Manage.* 56:255-259.
27. Malinowski, D. P*., A. A. Hopkins, W. E. Pinchak, J. W. Sij and R. J. Ansley. 2003. Productivity and survival of defoliated wheatgrasses in the Rolling Plains of Texas. *Agron. J.* 95:614-626.
28. Ransom, D. Jr. and W. E. Pinchak. 2003 Assessing accuracy of a laser rangefinder in estimating grassland bird density. *Wildl. Soc. Bull.* 31(2): 460-463.
29. Pinchak, W. E., D. R. Tolleson, M McCloy, R. J. Gill, R. J. Ansley and S. J. Bevers. 2004. Morbidity impacts on production efficiency and profitability of stocker cattle in the Southern Plains. *J. Anim. Sci.* 82:2780-2789.
30. Ansley, R. J., W. E. Pinchak, W. R. Teague, B. A. Kramp and D. L. Jones. 2004. Longevity of mesquite herbicide treatments determined by herbaceous production responses. *J. Range Manage.* 57: 49-57.
31. Slosser, J. E., M. N. Parajulee, D. L. Hendrix, T. J. Henneberry and W. E. Pinchak. 2004. Cotton aphid (Homoptera: Aphididae) abundance in relation to cotton sugars. *Environmental Entomol.* 33(3):690-699.
32. Min, B. R.*, W. E. Pinchak, J. D. Fulford and R. Puchalla. 2005. Wheat pasture bloat dynamics, in vitro ruminal gas production and potential bloat mitigation with condensed tannins. *J. Anim Sci.* 83:1322-1331.
33. Malinowski, D. P., H. Zuo, B. A. Kramp, J. P. Muir and W. E. Pinchak. 2005. Obligatory summer-dormant cool-season perennial grasses for semiarid environments of the Southern Great Plains. *Agron. J.* 97:147-154.

34. Min, B. R.*, W. E. Pinchak, J. D. Fulford and R. Puchalla. 2005. Effect of feed additives on rumen characteristics and frothy bloat dynamics in steers grazing wheat pasture. *Anim. Feed Sci. Tech.* 123-124:614-629.
35. Ansley, R.J., M.J. Castellano and W.E. Pinchak. 2006. Sideoats grama growth responses to seasonal fires and clipping. *Rangeland Ecology and Management* 59:258-266.
36. Min, B. R.*, W. E. Pinchak, D. M. Matthews and J. D. Fulford. 2006. In vitro fermentation and in vivo bloat dynamics of steers grazing winter wheat and supplemented with corn oil. *Anim. Feed Sci. Tech.*
37. Min, B. R*., W. E. Pinchak, R. C. Anderson, J. D. Fulford and R. Puchala. 2006. The effect of condensed tannins supplementation on in vitro ruminal bacteria growth, frothy bloat dynamics and average daily gain by steers grazing wheat forage. *J. Anim. Sci* 84:2546-2554.
38. Min, B. R.*, W. E. Pinchak, R.C. Anderson and M. E. Hume. 2006. In vitro bacterial growth and in vivo rumen microbiota populations associated with potential bloat dynamics in steers grazing winter wheat forage. *J. Anim. Sci* 84:2873-2882.
39. Amador, B. A.*, J. E. Slosser, G. B. Idol, M. N. Parajulee, W. E. Pinchak, R. J. Ansley and M. K. Owens. 2006. Population dynamics and response to mesquite pod supplementation of *Algarobius bottimeri* and *Mimosetes amicus*. *Southwest. Entomol.* 31(2):103-112.
40. Min, B. R*., W. E. Pinchak, R. Anderson. T. Callaway and M. Hume. 2007. The Effect of Tannins on the In Vitro Growth of Escherichia coli O157:H7 and In Vivo growth of Generic E. coli Excreted from Steers. *J. Food Protection.* 70:543-550.
41. Min, B., W*. Pinchak, D. Matthews and J. Fulford. 2007. In vitro rumen fermentation and in vivo bloat dynamics of steers grazing winter wheat to corn oil supplementation. *Anim. Feed Sci. Tech.* 133:192-205.
42. Malinowski, D. P., W. E. Pinchak, B. A. Kramp, H. Zuo and T. J. Butler. 2007. Supplemental irrigation and fall dormancy effects on alfalfa productivity in a semiarid, subtropical climate with a bimodal precipitation pattern. *Agron. J.* 99:621-629.
43. Sij, J. W., W. E. Pinchak, D. P. Malinowski, D. L. Robinson, S. J. Bevers, T. A. Baughman and R. J. Gill. 2007. Yield and economic responses to phosphorus fertilizer placement in dual-use and grain-only wheat production systems. *Agron. J.* 99:773-778.

44. Ansley, R. J., W. E. Pinchak and W. R. Teague. Mesquite cover responses in rotational grazing/prescribed fire management systems: Landscape assessment using aerial images. pp 73-78. In: Sosebee, R. E. D. B. Wester eds. Proceedings: Shrubland dynamics-fire and water. RMRS-P-47, USDA-Forest Service.
45. *Gutierrez-Bañuelos, Hector; Anderson, Robin; Carstens, Gordon; Tedsechi, Luis, Pinchak, William; Cabrera-Diaz, Elisa; Krueger, Nathan; Callaway, Todd; Nisbet, David. 2008. Effects of Nitroethane and Monensin on Ruminant Fluid Fermentation Characteristics and Nitrocompound-Metabolizing Bacterial Populations. *J. Agric. Food Chem.* 56:4650-4658.
46. * Min, B. R., Pinchak, W. E., Merkel, R., Walker, S., Tomita, G. and Anderson, R. C. 2008. Comparative antimicrobial activity of tannin extracts from perennial plants on mastitis pathogens. *Scientific Research and Essay.* 3:66-73.
47. Teague, W. R., W.E. Grant, U. P. Kreuter, H. Diaz-Solis, S. Dube, M.M. Kothmann, W.E. Pinchak and R.J. Ansley. 2008. An ecological economic simulation model for assessing fire and grazing management effects on mesquite rangelands in Texas. *Ecological Economics* 64:611-624.
48. Teague, W. R., R. J. Ansley, W. E. Pinchak, S. L. Dowhower, S. A. Gerrard and J. A. Waggoner. 2008. Interannual herbaceous biomass response to increasing levels of honey mesquite cover on two soils. *Rangeland Ecology and Management* 61:496-508.
49. Ansley, R. J., W. E. Pinchak and D. L. Jones. 2008. Mesquite, tobassagrass and common broomweed response to fire season and intensity. *Rangeland Ecology and Management.* 61
50. Malinowski, D., D. P. Belesky, B. A. Kramp, J. Ruckle, J. Kigel, and W. E. Pinchak. 2008. A method to differentiate summer-dormant from summer-active cool-season grasses at germination state. *Aust. J. Agric. Res* 59:1-11.
51. Ansley, R. J., W. E. Pinchak and D. L. Jones. 2008. Mesquite, tobassagrass and common broomweed response to fire season and intensity. *Rangeland Ecology and Management.* 61:588-597.
52. Teague, W. R., R. J. Ansley, W. E. Pinchak, S. L. Dowhower, S. A. Gerrard and J. A. Waggoner. 2008. Interannual herbaceous biomass response to increasing levels of honey mesquite cover on two soils. *Rangeland Ecology and Management* 61:496-508.
53. Malinowski, D.P., Kigel, J., and W.E. Pinchak. 2009. Water deficit, heat tolerance, and persistence of summer-dormant grasses in the U.S. Southern Plains. *Crop Science* 49 (6): 2363-2370.

54. *Pitta, D.W., W. E. Pinchak, S. E. Dowd, J. Osterstock, V. Gontcharova, E. Youn, K. Dorton, I. Yoon, B. R. Min, J. D. Fulford, T. A. Wickersham, and D. P. Malinowski. 2009. Rumen bacterial diversity dynamics associated with transitioning from bermudagrass hay to grazed winter wheat diets in cattle. *Microbial Ecology* 59:511-522.
55. Bretschger, J. B. Osterstock, W. E. Pinchak, Shun'ichi Ishii, K. E. Nelson, 2009. Brief Review: Microbial fuel cells and microbial ecology: applications in ruminant health and production research. *Microbial Ecology* 59:415-427.
56. * Krueger, W.K., *Hector Gutierrez-Bañuelos, Gordon E. Carstens, William E. Pinchak, B R. Min, Robin C Anderson, Nathan A Krueger, T.D. A. Forbes, 2010. Effects of dietary tannin source on performance, feed efficiency, ruminal fermentation, and carcass and non-carcass traits in steers fed a high-grain diet. *Animal Feed Science and Technology* 159:1-9.
57. Ansley, R.J., W. E. Pinchak, W. R. Teague, B. A. Kramp, and K. Barnett. 2010. Rotational grazing and prescribed fire in mesquite savanna: mesquite landscape cover responses. *Rangeland Ecology and Management* 63:286-297.
58. Pinchak, W. E. W. R. Teague, Ansley, R.J, J. A. Waggoner, and S. L. Dowhower. 2010. Rotational grazing and prescribed fire in mesquite savanna: ranch-scale cow-calf production responses. *Rangeland Ecology and Management* 63:298-307.
59. Teague, W. R., S. L. Dowhower, R. J. Ansley, W. E. Pinchak and J. A. Waggoner. 2010. Prescribed fire and rotational grazing in a mesquite savanna: Vegetation responses. *Rangeland Ecology and Management*. 63:275-285.
60. *Gutierrez-Banuelos, H, W. E. Pinchak, B. R. Min, G. E. Carstens, R. C. Anderson, L. O. Tedeschi, *W. K. Krueger, N. A. Krueger, P. A. Lancaster, and R. R. Gomez. 2011. Effects of feed-supplementation and hid-spray application of two sources of tannins on enteric and hide bacteria of feedlot cattle. *Journal of Environmental Science and Health Part B* 46:360-265.
61. Malinowski, D. P., *D. W. Pitta, W.E. Pinchak, B. R. Min, and Y. Y. Emendack. 2011. Effect of nitrogen fertilization on diurnal phenolic concentration and foam strength in forage of hard red winter wheat (*Triticum aestivum* L.) cv. Cutter. *Crop and Pasture Science*. 62:656-665.
62. Sij, J, M. Belew and W. Pinchak. 2011. Nitrogen management in no-till and conventional-till dual-use wheat/stocker systems. *Texas Journal of Agriculture and Natural Resource*. 24:38-49.

63. Anderson, Robin. C., Maša Vodovnik, *Byeng R. Min, William E. Pinchak, Nathan A. Krueger, Roger B. Harvey and David J. Nisbet. 2012. Bactericidal effect of hydrolysable and condensed tannin extract on *Campylobacter jejuni* in vitro. *Folia Microbiologia* 57:253-258.
64. * Min, B. R. W. E. Pinchak, *K. Hernandez, C. Hernandez, M. E. Hume, E. Valencia and J. D. Fulford. 2012. Effects of plant tannin supplementation on animal responses and in vivo ruminal bacterial populations associated with bloat in heifers grazing wheat forage. *Professional Animal Scientist* 28:464-472.
65. Malinowski, D. P., R. S. Brown and W. E Pinchak. 'Blue Angel' Winter-hardy hibiscus (*Hibiscus x moscheutos* L.). *HortScience* 47:289-290.
66. Malinowski, D. P., R. S. Brown and W. E Pinchak. 'Robert Brownl' Winter-hardy hibiscus (*Hibiscus x moscheutos* L.). *HortScience* 47:291-292.
67. *Min, B. R., W. E. Pinchak, C. Hernandez, and M. E. Hume. 2013. Grazing activity and ruminal bacterial population associated with frothy bloat in steers grazing winter wheat. *The Professional Animal Scientist* 29:179-187.
68. *Pitta, D. W., W. E. Pinchak, S. Dowd, K. Dorton, I. Yoon, B. R. Min, J. D. Fulford, T. A. Wickersham and D.P. Malinowski. 2014. Longitudinal shifts in bacterial diversity and fermentation pattern in rumen of steers grazing wheat pasture. *Anaerobe* 30:11-17. DOI: 10.1016/j.anaerobe.2014.07.008
69. *Drewery, M. L., J. E. Sawyer, W. E. Pinchak and T. A. Wickersham. 2014. Effect of increasing amounts of post extraction algal residue on straw utilization in steers. *Journal of Animal Science*. 92:4642-4649. DOI: 10.2527/jas.2014-7795.
70. Anderson, R., R. Harvey, T. Wickersham, J. McDonald, C. Ponce, M. Brown, W. Pinchak, J. Osterstock, N. Krueger and D. Nisbet. 2014. Effect of distillers' feedstuffs on *Campylobacter* carriage in feedlot cattle. *Journal of Food Protection*. 77 11:1968-1975.
71. * McCann, J. C., M. L. Drewery, W. E. Pinchak, J. E. Sawyer and T. A. Wickersham. 2014. Effect of post-extraction algal residue supplementation on the rumen microbiome of steers consuming low-quality forage. *Journal of Animal Science*. 92:5063-5075.
72. E. Grilli, R. Bari, A. Piva, T.S, Edrington , D.W. Pitta, W.E. Pinchak, D.J. Nisbet and T.R. Callaway. 2015. Organic Acid Blend with Pure Botanical Product Treatment Reduces *Escherichia coli* and *Salmonella* Populations in Pure Culture and in *In Vitro* Mixed Ruminal Microorganism Fermentations. *Food Pathogens and Disease* 12 (1):56-61. doi:10.1089/fpd.2014.1826.

73. Malinowski, D.P., and W.E. Pinchak. 2015. Summer dormancy trait as a strategy to provide perennial cool-season forage alternatives in southern latitude environments affected by climate change. *Agronomy Journal* 107:1227-1234.
74. *Min, B. R., *K. Hernandez, W. E. Pinchak, R. C. Anderson, J. E. Miller and E. Valencia. 2015. Effects of tannin extracts supplementation on animal performance and gastrointestinal parasites infestation in steers grazing winter wheat. *Open Journal of Animal Science* 5: 343-350.
75. Malinowski, D.P., W.E. Pinchak, * B. Min, J.C. Rudd, and J. Baker. 2015. Phenolic compounds affect bloat potential of wheat forage. *Crop, Forage and Turfgrass Management*. 1:1 doi:10.2134/cftm2015.0146
76. *Latham, E. A., R. C. Anderson, W. E. Pinchak and D. J. Nisbett. 2016. Insights into alterations to the rumen ecosystem by nitrate and nitrocompounds. *Frontiers in Microbiology*. 7:228 doi:[10.3389/fmicb.2016.00228](https://doi.org/10.3389/fmicb.2016.00228).
77. *Jackson, K. S., G. C. Carstens, L. O. Tedeschi and W. E. Pinchak. 2016. Changes in feeding behavior patterns and dry matter intake prior to clinical symptom associated with bovine respiratory disease in growing bulls. *Journal of Animal Science*. 94-4:1644-1652. doi:10.2527/jas.2015-9993.
78. Ansley, R. J., W. E. Pinchak and M. K. Owens. 2017. Mesquite pod removal by cattle, feral hogs, and native herbivores. *Rangeland Ecology and Management*. 70:469-476.
79. *Warzecha, C.M., J. A. Coverdale, J. E. Janecka, J. L. Leatherwood, W. E. Pinchak, T. A. Wickersham and J. C. McCann. 2017. Influence of short-term dietary starch inclusion on the equine cecal microbiome. *Journal of Animal Science*. 95:5077-5090.
80. *Min, B. R., W. E. Pinchak and D. P. Malinowski. 2017. Interrelationships of winter wheat varieties on rumen fermentation, forage biomass production, and grain yield dynamics under graze-out by steers. *Journal of Advances in Agriculture*. 7:1122-1137.
81. Missaoui, A. M., D. P. Malinowski, W. E. Pinchak and J. Kigel. 2017. Insights into the drought and heat avoidance mechanism in summer-dormant Mediterranean tall fescue. *Frontiers in Plant Science* 7:1971.
82. *Latham, E. A., J. C. McCann, K. K. Weldon, T. A. Wickersham, J. C. Coverdale and W. E. Pinchak, 2018. Responses in the rumen microbiome of *Bos taurus* and *Bos indicus* steers consuming rice straw and supplemented with protein. *Journal of Animal Science*. Accepted w/minor revisions 22 Dec 2017. Accepted 13 Jan 2018. In press.

Books or Chapters therein:

Huston, J.E. and W.E. Pinchak. 1991. Range Animal Nutrition pp 27-63. In: J. W. Stuth and R. K. Heitschmidt (eds.). Grazing Management: An ecological perspective. Timberline Press, Inc. Portland, Oregon. 259 p.

V. Teaching Activities

Graduate Students: Prior to 2000 2 Ph. D. and 3 M. S.

Graduate Students:

<u>Name</u>	<u>Degree</u>	<u>Year</u>	<u>University</u>
Ignacio Galvez Nunez	MS	2000	Texas A&M University
Charles Lloyd Kneuper	MS	2000	Angelo State University
Galen P. Austen	PhD	2003	Texas Tech University
Douglas R. Tolleson	PhD	2007	Texas A&M University
Karla J. Hernandez	MS	2007	University of Puerto Rico
Hector Gutierrez Banuelo	PhD	2008	Texas A&M University
Shannon Bennet	MS	2010	Texas A&M University
Egleu Mendez	MS	2010	Texas A&M University
Ashley Wolford	MS	2011	Texas A&M University
Merritt Drewery	MS	2012	Texas A&M University
Katie Henderson	MWSC, non-thesis	2012	Texas A&M University
Christine Warzecha	MS	2013	Texas A&M University
Joshua McCann	MS	2013	Texas A&M University
Joel D. Suggs	MS	2013	Texas A&M University
Travis McCallister	MS	2014	Texas Tech University
Kirby Jackson	MS	2015	Texas A&M University
Elizabeth Latham	PhD	2015	Texas A&M University
Monica Jenks	MS	2015	Texas A&M University
Abbey Couples	Mag	2015	Texas A&M University
Will Kayser	PhD	2017	Texas A&M University
Aaron Norris	PhD	2018	Texas A&M University
Paul Goetze	PhD	2018	Texas A&M University
Lauren Fontenot	PhD	2019	Texas A&M University

Lydia Forehand	MS	2019	Texas A&M University
Matt Brown	PhD	2019	Texas A&M University

Post-Doctoral Research Associates

<u>Name</u>	<u>Tenure</u>	<u>Current Position</u>
Dariusz P. Malinowski	1998-2000	Professor, Texas A&M AgriLife Research
Byeng R. Min	2004-2009	Assistant Professor, Tuskegee University
Dipti W. Pitta	2009-2012	Assistant Professor, University of Pennsylvania
Ginger M. Shipp	2010-2013	Assistant Professor, Lake Erie College Osteopathic Medicine

Undergraduate courses -1981 to 1984

UW, Feeds and Feeding, 3 hrs.
UW, Range Survey (2 semester), 3 hrs.
CSU, Range Improvements, 3 hrs.
CSU, Ranch Planning (Team), 3 hrs.
CSU, Ecosystem Function II, 3 hrs.
CSU, Range Ecology (Team), 3 hrs.

Graduate courses -

UW, Quantitative Methods, 3 hrs.

Other

UW, Coach Undergraduate Range Management Exam (URME) Team -
First Place 1983, SRM, Albuquerque, NM.
CSU, Coach URME Team - Fourth Place 1984, SRM, Rapid City, SD.
CSU, Advisor, Range Club, 1983-84.

Guest Lecturer:1984-2010. Over 30 lectures to Animal Science, Range Management and Veterinary Students.

VI. Service Activities

- a. Mentoring: I am or have been the Senior Faculty Mentor for the following junior faculty

Texas A&M AgriLife Research:

Dr. Dariusz P. Malinowski, Professor, Texas A&M AgriLife Research Vernon
Dr. Paul DeLaune, Associate Professor, Texas A&M AgriLife Research Vernon
Dr. Srinii Ale, Assistant Professor, Texas A&M AgriLife Research Vernon
Dr. Nithya Rajan, Assistant Professor, Texas A&M AgriLife Research Vernon
Dr. Pablo Pinedo, Assistant Professor, Texas A&M AgriLife Research Amarillo
Dr. Jenny Jennings, Assistant Professor, Texas A&M AgriLife Research Amarillo

Texas A&M University:

Dr. Tryon Wickersham, Associate Professor, Animal Science, Texas A&M University
Dr. Josie Coverdale, Associate Professor, Animal Science, Texas A&M University

- b. Society for Range Management-Member since 1979.

1. Texas Section

Information and Education Committee 1985-87
Outstanding Contribution to Range Management Committee 1985-86
Annual Meeting Committee 1989, Exhibitors and Door Prizes
Annual Meeting Committee 1994, Exhibitors and Door Prizes
Public Affairs Committee 1991
Public Affairs Committee, Chair 1992
Water Symposium Planning Committee, October 1992, San Antonio
Session Moderator, Annual Meeting, 1994
Publication Awards Committee 1999-2002
Annual Meeting Committee 2003, Program Chair
Director 2004-2006
2nd VP, VP and President in 2008, 2009 and 2010, respectively

2. International

Session Moderator 1987, 2004, 2005
Manuscript Referee 1984-2013 (47 manuscript reviews)
Public Affairs Committee 1994-1997
Organizational Structure Review Panel 2002-2003
Employment Affairs Committee 1998-2003
Chair-2001-2002.
Research Affairs Committee 2002-2003
Nutritional Ecology Work Group Chair 2003-2006

Instructor Ranching 101 Short Course Fort Worth, Texas 2005
Information and Technology Committee 2006

- b. American Society of Animal Science-Member since 1981
Editorial Board 1985-1988 (33 manuscript reviews)
Manuscript Referee 1989 -2013 (30 manuscript reviews)
Grazing Livestock Nutrition Conference. Session Moderator. Custer, SD. July 18-19, 1996.
- c. Plains Nutrition Council 1995-present
- d. Southwest Wheat Research and Education Consortium 1996-2009
Advisory Board 1998-2006.
Secretary 2002-2003, Vice-Chair 2003-2004, Chair 2004-2005
- e. Texas Forage Workers 1986-present
Executive Committee 2004-2007
- f. Texas Beef Workers 1999-present
Executive Committee 2004-2006
Chair 2006
- g. USDA-CREES WERA 110 Regional Coordinating Committee "Improving ruminant use of forages in sustainable production systems for the western U.S."
TAES Representative 2003-2010
Chairman 2006
- h. Manuscript Reviews: in addition to *J. Anim. Sci* and *Range. Ecol. Manage* 2001 on
Applied Animal Behavior/Ethology- 8
J. Arid Environments- 2
Professional Animal Scientist- 15
Southwestern Entomologist- 2
Agronomy Journal- 6
Livestock Production Science- 1
Animal Feed Science and Technology- 5
Microbial Ecology-5
Folia Microbiologia-1
Anaerobe-1
- i. USDA-NRI-NCGP Reviewer for Agricultural Systems/Managed Ecosystems. 1999-2005 (8 Proposals Reviewed)

- j. Chillicothe-Vernon Center
Co-Project Leader-Texas Experimental Ranch 1984-1989
Joint Center Coordinating Committee 1985-1989, 1997-1999
Hazardous Chemical Committee 1985-2006
Awards Committee 1989-1994, 1997-2003
Resident Director Search Committee 1992
Animal Use and Care Administrator 1988-2006
YER Coordinator November 1991-September 1993 and
January 1995-February 1995.
District 3 TAEX Director Search Committee 1996.
Texas Forage Workers Annual Meeting, Coordinator, Vernon TX., June 3-5, 1996
Rolling Plains Ranch Manager Information Exchange, Co-Chair, Vernon, TX. November
1992, 1993, 1996.
Rolling Plains Range and Livestock Work Group. Coordinator. TAES-TAEX, 1997-
2006
Rangeland Ecology and Management Department Faculty Search Committee 1997
Agronomist Search Committee, TAES, Vernon 1997
Integrated Agriculture Committee Co-Chair, Vernon 1998-1999
Texas Forage Workers Annual Meeting, Coordinator, Vernon, TX., June 2001
Southwest Wheat Research and Education Consortium Representative. 1999-2006
Central Texas Beef Roundtable Representative 2003-2005
Smith-Walker Research Unit Coordinator 1999-present.
- k. TAES/Texas AgriLife Research
Hazardous and Toxic Waste Committee 1986-1990
Planning Committee, Forage-Range-Animal Research 1986
Work Group Chair TAES Staff Conference 1990
Resident Director Search Committee 1992
Cotton Aphid Task Force 1989-1994.
Rangeland Ecology and Management Program Review Committee 1994-95
Great Plains Agricultural Council Task Force "Role of Animal Production Systems in
Sustainable Agriculture "TAES/TAEX Representative 1995-1997.
Rangeland Ecology and Management Department Tenure and Promotion Committee
1996-1998.
WERA 110 "Improving ruminant use of forages in sustainable production systems for the
western U.S." TAES Representative 2003-2006, Chairman 2006
Cropping Systems Agronomist Search Committee Chair-2009
Ruminant Health and Nutrition Metagenomics Program Leader 2009-2010
Ruminant Health Veterinarian Search Committee 2011
Ruminant Nutritionist Search Committee 2013
Department Head Ecosystem Science and Management Search Committee 2013-2014

1. Honor Societies

Alpha Zeta

Gamma Sigma Delta

Beta Beta Beta, Past President

Phi Eta Sigma