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EDUCATION AND EMPLOYMENT INFORMATION

EDUCATION

Ph.D. Animal Science, University of Kentucky, 1998
M.S. Animal Science, Angelo State University, 1994
B.S. Animal Science, Angelo State University, 1990

ACADEMIC POSITIONS

Professor, Eastern Oregon Agricultural Research Center, Department of Animal Sciences, Oregon State University, 2016 to present
Associate Professor, Eastern Oregon Agricultural Research Center, Department of Animal Sciences, Oregon State University, 2004 to 2016
Assistant Professor, Eastern Oregon Agricultural Research Center, Department of Animal Sciences, Oregon State University, 1998 to 2004
Graduate Research Assistant, University of Kentucky, 1994 to 1998
Graduate Research Assistant, Angelo State University, 1992 to 1994

ADMINISTRATIVE POSITIONS

Director, Eastern Oregon Agricultural Research Center – Burns & Union Stations, Oregon State University, 2016 to present
Director, Eastern Oregon Agricultural Research Center – Burns Station, College of Agricultural Sciences, Oregon State University, 2012 to 2016
Assistant Superintendent, Eastern Oregon Agricultural Research Center (Burns & Union stations), College of Agricultural Sciences, Oregon State University, 2006 to 2012
Interim Assistant Superintendent, Eastern Oregon Agricultural Research Center (Burns & Union stations), College of Agricultural Sciences, Oregon State University, 2004 to 2006

TEACHING, ADVISING, RESEARCH, EXTENSION, AND OTHER ASSIGNMENTS

Instructional Summary: I do not have a formal teaching appointment, but I have been actively involved with undergraduate and graduate courses. I regularly teach undergraduate classes with emphasis on beef cattle production in Corvallis as an invited lecturer.

*Credit Courses:****Instructor or co-instructor***

Course	Title	Enrollment	Term	Year
ANS 515	Ruminant Nutrition & Techniques	5	Summer	2014
ANS 515	Ruminant Nutrition & Techniques	6	Summer	2011
ANS 515	Ruminant Nutrition & Techniques	6	Summer	2008
ANS 515	Ruminant Nutrition & Techniques	8	Summer	2005
ANS 515	Ruminant Nutrition & Techniques	7	Summer	2002
ANS 515	Ruminant Nutrition & Techniques	11	Summer	2001
VM 781-7	Applied Ruminant Nutrition	17	Summer	2000

Invited Lecturer

Course	Title	Classes Taught	Term	Year
VMC 751 (OSU)	Ruminant Nutrition	4 hr	Spring	2021
VMC 751 (OSU)	Ruminant Nutrition	3 hr	Spring	2020
AGRI 299 (OSU)	Critical Issues in Oregon Agriculture & Natural Resources	1 hr	Spring	2020
VMC 751 (OSU)	Ruminant Nutrition	3 hr	Spring	2019
AGRI 299 (OSU)	Critical Issues in Oregon Agriculture & Natural Resources	1 hr	Spring	2019
International Beef Cattle Academy (Texas A&M)	Grazing Distribution & Management of Rangelands	1 hr	On-line; recorded	2018
VMC 751 (OSU)	Ruminant Nutrition	3 hr	Spring	2018
ANS 511 (OSU)	Digestive Physiology & Nutrition of Ruminant Animals	1 hr	Spring	2018
VMC 751 (OSU)	Ruminant Nutrition	3 hr	Spring	2017
ANS 511 (OSU)	Digestive Physiology & Nutrition of Ruminant Animals	1 hr	Spring	2017
AGRI 299 (OSU)	Critical Issues in Oregon Agriculture & Natural Resources	1 hr	Fall	2016
ANS 511 (OSU)	Digestive Physiology & Nutrition of Ruminant Animals	1 hr	Spring	2016
VMC 751 (OSU)	Ruminant Nutrition	4 hr	Spring	2016
AGRI 299 (OSU)	Critical Issues in Oregon Agriculture & Natural Resources	1 hr	Fall	2015
VMC 751 (OSU)	Ruminant Nutrition	4 hr	Spring	2015
ANS 511 (OSU)	Digestive Physiology & Nutrition of Ruminant Animals	1 hr	Spring	2015
AGRI 299 (OSU)	Critical Issues in Oregon Agriculture & Natural Resources	1 hr	Fall	2014
VMC 751 (OSU)	Ruminant Nutrition	4 hr	Spring	2014
ANS 505 (OSU)	Reading and Conference – Mineral Nutrition in Ruminants	1 hr	Summer	2009

ANS 444 (EOU)	Beef Production Systems	3 hr	Spring	2007
ANS 511 (OSU)	Digestive Physiology & Nutrition of Ruminant Animals	1 hr	Spring	2002

I have twice taught a graduate course in the Animal Sciences Graduate Program at São Paulo State University, Brazil. The class, titled “*Protein Nutrition and Methodologies to Investigate Ruminant Nutrition*”, is a 20-hour special topics course.

Title	Enrollment	Term	Year
Protein Nutrition & Methodologies to Investigate Ruminant Nutrition	22	Spring	2015
Protein Nutrition & Methodologies to Investigate Ruminant Nutrition	21	Spring	2013

Non-Credit courses and workshops:

Summary of extension invited presentations

Topic	# of events	Invited Speaker			# of attendees
		Local	National	International	
Ruminant Nutrition	49	44	3	2	2,977
Controlling Feed Costs	16	7	9		1,143
Cattle Management/Health	38	29	7	1	3,876
Community/Youth Education	37	33	4		1,023
OSU/EOARC Programs	25	24	1		576
Total	165	137	24	3	9,495

Presentations as Invited Speaker

Local (Oregon)

137. Virtual Fence Technology as a Tool to Help Manage Cattle and Rangelands; *In: Educational Breakout Session – Oregon Cattlemen’s Association Annual Meeting, Pendleton, OR (November 21, 2021; 35 participants)*
136. Protein Supplementation of Beef Cattle; *In: OSU Beef Cattle Working Group – Fall Webinar Series. Zoom Webinar (October 13, 2020; 20 Participants)*
135. Weaning and Preconditional Calves – Considerations and Thoughts; *In: OCA-OSU Zoom Webinar (May 29, 2020; 30 participants).*
134. Potential Advantages of Managing BCS and Calving Distribution; *In: Cattle on the Range – Thoughts & Considerations. Zoom Webinar (April 28, 2020; 40 Participants)*
133. Grazing Management Considerations in a Dynamic Climate; *In: Klamath Watershed Partnership/Watershed Council. Chiloquin, OR (March 12, 2020; 35 Participants)*
132. Grazing Management in a Dynamic Climate; *In: USDA Climate Hub and Upper Snake River Tribes Rangeland Management in a Dynamic Climate. Burns, OR (October 28, 2019; 50 Participants)*
131. Balancing Diets; *In: Harney County 4-H Nutrition & Ration Balancing. Burns, OR (May 6, 2019; 34 participants)*
130. OSU and the Eastern Oregon Agricultural Research Center; *In: John Scharff Migratory Bird Festival Ranch Tour, Riley, OR (April 13, 2019; 12 participants)*
129. Use of EPDs in Bull Selection; *In: Crook County Stock growers Annual Meeting; Prineville, OR (February 19, 2019; 65 participants)*

128. Meadow Creek Cattle Data: Observations from Year 1; *In: Pacific Northwest Section, Society for Range Management 2018 Summer Meeting, La Grande, OR (June 28, 2018; 35 participants)*
127. Cattle Grazing and Salmonid Recovery; *In: PNW Section, Society for Range Management Tour of Starkey Experimental Forest & Range, Starkey, OR (June 27, 2018; 75 participants)*
126. Meadow Creek Cattle Data: Observations from Year 1; *In: 2018 OSU/EOARC Range Field Day – From Valleys to Ridgetops, La Grande, OR (June 26, 2018; 55 participants)*
125. Livestock Interactions on the Land; *In: 2018 High Desert Youth Range Camp, Riley, OR (June 13-16, 2018; 16 participants)*
124. Eastern Oregon Agricultural Research Center; *In: City of Eugene Recreation Department Senior Tour, Burns, OR (June, 5, 2018; 11 participants)*
123. Eastern Oregon Agricultural Research Center – History & Overview of Programs; *In: AnRs Departmental Seminar, Corvallis, OR (May 23, 2018; 7 participants)*
122. OSU and the Eastern Oregon Agricultural Research Center; *In: Oregon Cattlewomen’s Ranch Tour, Burns, OR (May 18, 2018; 12 participants)*
121. Eastern Oregon Agricultural Research Center – History & Overview of Programs; *In: 2018 OAEA Spring Meeting, Professional Improvement Conference & Tour, Ontario, OR (April 17, 2018; 35 participants)*
120. OSU and the Eastern Oregon Agricultural Research Center; *In: John Scharff Migratory Bird Festival Ranch Tour, Riley, OR (April 7, 2018; 12 participants)*
119. Supplementation and Sustainable Grazing Systems; *In: Grant County Extension Open House, John Day, OR (January 26, 2018; 10 participants)*
118. Nutrition of Gestating Cows; *In: Grant County Stock Growers Annual Meeting, John day, OR (December 16, 2017; 45 participants)*
117. Flood Meadows, Livestock, and Wildlife – Past and Future; *In: Harney Basin Wetlands initiative: Fair in the Field, Burns, OR (April 7, 2017; 50 students)*
116. Addressing Challenges to Livestock Production in the Great Basin; *In: Burns FFA Agricultural Program – Guest Lecture, Burns, OR (November 14, 2016; 18 students)*
115. OSU Research & Extension Programs at the Eastern Oregon Agricultural Research Center, Burns; *In: OSU Steer-a-Year Class Tour, Burns, OR (November 13, 2016; 22 participants)*
114. Supplementation and Sustainable Grazing Systems; *In: Cattleman’s College; Oregon Cattleman’s Association Annual Meeting, Bend, OR (November 10, 2016; 75 participants)*
113. Grazing in the Great Basin; *In: Oregon Master Naturalist Program – Northern Basin and Range Ecoregion Course, Eastern Oregon Agricultural Research Center, Burns, OR (August 31, 2016; 10 participants)*
112. The Great Basin – A Little Background; *In: Oregon Master Naturalist Program – Northern Basin and Range Ecoregion Course, Malheur Field Station, Burns, OR (August 30, 2016; 10 participants)*
111. OSU Research & Extension Programs at the Eastern Oregon Agricultural Research Center, Burns; *In: USDA-ARS Weeds Program, NP304, Leader (Rosalind James) Tour of EOARC. Burns, OR (August 22-23, 2016; 20 participants)*
110. OSU Research & Extension Programs at the Eastern Oregon Agricultural Research Center, Burns; *In: Oregon Cattlemen’s Association Mid-Year Meeting. Sunriver, OR (May 22-24, 2016; 50 participants)*
109. OSU Research and Extension Programs at EOARC Burns; *In: University of Idaho Undergraduate Rangeland Class, Instructor: Karen Launchbaugh, Burns, OR (April 14, 2016; 18 participants)*
108. OSU and the Eastern Oregon Agricultural Research Center; *In: John Scharff Migratory Bird Festival Ranch Tour, Burns, OR (April 9, 2016; 20 participants)*

107. Research Study: Supplementing Trace Minerals to Pregnant Beef Cows; *In: Purina's The Path to Profit is paved with Great Nutrition Central Oregon Tour, John Day, OR (March 23, 2016; 35 participants)*
106. Research Study: Supplementing Trace Minerals to Pregnant Beef Cows; *In: Purina's The Path to Profit is paved with Great Nutrition Central Oregon Tour, Burns, OR (March 22, 2016; 35 participants)*
105. Research Study: Supplementing Trace Minerals to Pregnant Beef Cows; *In: Purina's The Path to Profit is paved with Great Nutrition Central Oregon Tour, Prineville, OR (March 21, 2016; 45 participants)*
104. OSU and the Eastern Oregon Agricultural Research Center; *In: Silvies River Charter School Ranch Tour, Burns, OR (March 18, 2016; 35 participants)*
103. Careers in Agriculture; *In: Silvies River Charter School Ranch Tour, Burns, OR (March 18, 2016; 35 participants)*
102. Using the OSU Across-Breed EPD Calculator; *In: 2015 OSU Beef Industry Tour - Reproductive Management and Genetics of Beef Cattle, Springfield, OR (Dec. 10, 2015; 30 participants)*
101. Using the OSU Across-Breed EPD Calculator; *In: 2015 OSU Beef Industry Tour - Reproductive Management and Genetics of Beef Cattle, Medford, OR (Dec. 9, 2015; 32 participants)*
100. Using the OSU Across-Breed EPD Calculator; *In: 2015 OSU Beef Industry Tour - Reproductive Management and Genetics of Beef Cattle, Prineville, OR (Dec. 8, 2015; 26 participants)*
99. Using the OSU Across-Breed EPD Calculator; *In: 2015 OSU Beef Industry Tour - Reproductive Management and Genetics of Beef Cattle, Baker City, OR (Dec. 7, 2015; 36 participants)*
98. Management Strategies to address cow nutrient requirements; *In: Southworth Ranch & Country Natural Beef Nutritional Workshop, Seneca, OR (November 16, 2015; 35 participants)*
97. Livestock Interactions on the Land; *In: 2015 High Desert Youth Range Camp, Riley, OR (June 24-27, 2015; 23 participants)*
96. Ok really now, what does a cow eat?; *In: 2015 High Desert Youth Range Camp, Riley, OR (June 24-27, 2015; 23 participants)*
95. OSU and the Eastern Oregon Agricultural Research Center; *In: Burns Paiute Tribe Youth Tour Burns, OR (May 1, 2015; 20 participants)*
94. OSU and the Eastern Oregon Agricultural Research Center; *In: John Scharff Migratory Bird Festival Ranch Tour, Burns, OR (April 11, 2015; 18 participants)*
93. Supplementation of Beef Cattle on Pasture; *In: Oregon Forage and Grasslands Council Spring Conference, Corvallis, OR (March 14, 2015; approximately 50 participants)*
92. Use of EPDs and the Across-Breed EPD Calculator; *In: Grant County Stockgrower's Association Meeting, John Day, OR (February 12, 2015; 43 participants)*
91. Nutritional Management Strategies for Efficient Beef Production in Rangeland Environments; *In: Malheur County Cattlemen's Meeting, Ontario, OR (February 11, 2015; approximately 120 participants)*
90. Use of EPDs and the Across-Breed EPD Calculator; *In: Klamath Falls Bull and Horse Sale, Klamath Falls, OR (February 6, 2015; 32 participants)*
89. OSU and the Eastern Oregon Agricultural Research Center; *In: John Scharff Migratory Bird Festival Ranch Tour, Burns, OR (April 12, 2014; 15 participants)*
88. Oregon State University and EOARC-Burns – Research, Outreach, & Ruminant Nutrition; *In: Riley 4H Club Meeting; Burns, OR (March 24, 2014; 16 participants)*
87. Supplementation Strategies to Improve Performance and Grazing Distribution; *In: North Central Livestock Annual Meeting. Maupin, OR (Feb. 15, 2014; 51 participants)*

86. Oregon State University and EOARC-Burns – Research and Outreach; *In: Eastern Oregon Agricultural Tour. Oregon State Representatives Brad Witt and Lou Frederick and Senator Ted Ferrioli. Organized by the Oregon Cattlemen’s Association and Oregon Cattlewomen’s Association. Burns, OR (December 18, 2013; 20 participants)*
85. Energy and Protein Supplementation for Cow-Calf Systems; *In: 2013 OSU Beef Industry Tour - Nutrition and Health Management for Cow-Calf Operations, Corvallis, OR (Dec. 12, 2013; 24 participants)*
84. Energy and Protein Supplementation for Cow-Calf Systems; *In: 2013 OSU Beef Industry Tour - Nutrition and Health Management for Cow-Calf Operations, Klamath Falls, OR (Dec. 11, 2013; 30 participants)*
83. Energy and Protein Supplementation for Cow-Calf Systems; *In: 2013 OSU Beef Industry Tour - Nutrition and Health Management for Cow-Calf Operations, The Dalles, OR (Dec. 10, 2013; 35 participants)*
82. Energy and Protein Supplementation for Cow-Calf Systems; *In: 2013 OSU Beef Industry Tour - Nutrition and Health Management for Cow-Calf Operations, Fossil, OR (Dec. 12, 2013; 60 participants)*
81. Oregon Beef Quality Assurance; *In: Cattleman’s College at the Oregon Cattlemen’s Association Annual Meeting, Bend, OR (Dec. 5, 2013; approximately 55 participants)*
80. EOARC-Burns Beef Research and Facilities; *In: OSU Steer-A-Year Meeting, Burns, OR (April 19, 2013; 12 participants)*
79. OSU and the Eastern Oregon Agricultural Research Center; *In: John Scharff Migratory Bird Festival Ranch Tour, Burns, OR (April 13, 2013; 17 participants)*
78. Nutritional and Management Strategies to Prevent Calving Problems; *In: Silvies Valley Ranch Calving School, Silvies Valley, OR (April 6, 2013; 30 participants)*
77. Feeding Market Steers and Market Lambs for Fair; *In: Harney County 4H Club Meeting, Burns, OR (February 4, 2013; 16 participants)*
76. OSU and the Eastern Oregon Agricultural Research Center; *In: John Scharff Migratory Bird Festival Ranch Tour, Burns, OR (April 14, 2012; 16 participants)*
75. Fetal Pig Dissection and Identification; *In: Burns High School Anatomy/Physiology Class, Burns, OR (April 18, 2011; 25 participants)*
74. Gestational Nutrition and Management of Beef Cows; *In: 2012 Alltech/Wilbur Ellis/Pfizer Cattlemen’s Workshop, Burns, OR (1/11/12; 33 participants)*
73. Nutritional Strategies to Enhance Reproduction in Beef Females; *In: 2011 OSU Beef Industry Tour - New Concepts and Sustainable Approaches on Reproductive Management and Genetics of Beef Cattle, Albany, OR (Dec. 9, 2011; 73 participants)*
72. Nutritional Strategies to Enhance Reproduction in Beef Females; *In: 2011 OSU Beef Industry Tour - New Concepts and Sustainable Approaches on Reproductive Management and Genetics of Beef Cattle, Roseburg, OR (Dec. 8, 2011; 74 participants)*
71. Nutritional Strategies to Enhance Reproduction in Beef Females; *In: 2011 OSU Beef Industry Tour - New Concepts and Sustainable Approaches on Reproductive Management and Genetics of Beef Cattle, Prineville, OR (Dec. 7, 2011; 42 participants)*
70. Nutritional Strategies to Enhance Reproduction in Beef Females; *In: 2011 OSU Beef Industry Tour - New Concepts and Sustainable Approaches on Reproductive Management and Genetics of Beef Cattle, Burns, OR (Dec. 6, 2011; 21 participants)*
69. Nutritional Strategies to Enhance Reproduction in Beef Females; *In: 2011 OSU Beef Industry Tour - New Concepts and Sustainable Approaches on Reproductive Management and Genetics of Beef Cattle, Baker City, OR (Dec. 5, 2011; 32 participants)*

68. Cattle temperament and its impacts on beef production; *In: OSU Extension day at the Oregon State Fair, Salem, OR (Sept, 3, 2011; approximately 50 participants)*
67. Research and Extension Projects at EOARC Burns; *In: 1st Annual Ag Day, Agricultural Program at Eastern Oregon University, La Grande, OR (May 17, 2011; 100 attendees)*
66. OSU and the Eastern Oregon Agricultural Research Center; *In: John Scharff Migratory Bird Festival Ranch Tour, Burns, OR (April 9, 2011; 16 participants)*
65. Forage Quality on Western Rangelands; *In: Integrated Resource Management Short Course – OSU Veterinary Agricultural Animal Club, Corvallis, OR (April 2, 2011; 31 participants)*
64. Supplementation Strategies for the Intermountain West; *In: Integrated Resource Management Short Course – OSU Veterinary Agricultural Animal Club, Corvallis, OR (April 2, 2011; 31 participants)*
63. The State Of Agriculture in Harney County – 2011; *In: Harney County - Annual State of County & Cities Address, Burns, OR (February 2, 2011; 80 attendees)*
62. Beef Cattle Nutrition and Management; *In: Central Oregon Forage Seminar; Prineville, OR (January 29, 2011; 60 participants)*
61. Update on Endophyte-Related Cattle Losses; *In: Oregon Seed Growers League Annual Meeting; Portland, OR (December 10, 2002; 400 participants)*
60. Assessing Mineral Status in Ruminants; *In: Livestock Mineral Nutrition Symposium presented by Coos County Extension Service; Myrtle Point, OR (November 15, 2010; approximately 50 participants)*
59. EOARC Beef Research; *In: Burns FFA Meeting, Burns, OR (November 10, 2010; 28 participants)*
58. Gestational Nutrition and Management; *In: 2nd Annual Conference on “Profitability through Genetic and Management Improvement” hosted by Bar CK Cattle Company; Culver, OR (August 28, 2010; 100 participants)*
57. Sheep Nutrition; *In: Burns FFA Meeting, Burns, OR (June, 8, 2010; 22 participants)*
56. Beef Cattle Research Program at EOARC; *In: Burns FFA Meeting, Burns, OR (June, 2, 2010; 22 participants)*
55. OSU and the Eastern Oregon Agricultural Research Center; *In: John Scharff Migratory Bird Festival Ranch Tour, Burns, OR (April 10, 2010; 17 participants)*
54. Nutritional Management of Beef Cows; *In: OSU Veterinary Medicine Agriculture Club, Corvallis, OR (Nov. 30, 2009; 27 participants)*
53. Considerations for Crude Protein Supplementation of Low Quality Forages; *In: First Annual Conference on “Profitability through Genetic and Management Improvement” hosted by Bar CK Cattle Company; Culver, OR (August 22, 2009; 80 participants)*
52. State of Agriculture in Harney County – 2009; *In: Harney County Farm Bureau Annual Meeting. Burns, OR (March 17, 2009; 50 participants)*
51. Balancing Diets; *In: Harney County 4-H Meeting. Burns, OR (March 16, 2009; 18 participants)*
50. Market Pig Management; *In: Harney County 4-H Meeting. Burns, OR (March 16, 2009; 18 participants)*
49. Cow Herd Record Keeping; *In: Comprehensive Ranch Management Planning, Southworth Ranch; Seneca, OR (Feb. 11, 2009; 45 participants)*
48. Winter Feed Costs Forum; *In: 35th Annual Hermiston Farm Fair & Trade Show. Hermiston, OR (December 3, 2008; 25 participants)*
47. Incorporating Grazing into Calf Weaning and Preconditioning Programs; *In: Cattleman’s College at the 2008 Oregon Cattleman’s Association Annual Meeting. Redmond, OR (November 6, 2008; 150 participants).*
46. History of the OSU Program at EOARC; *In: John Scharff Migratory Bird Festival Ranch Tour, Burns, OR (April 5, 2008; 18 participants)*

45. Overview of Scientists and Research Programs at EOARC-Burns & Demonstration of Cowculator; *In: Malheur County Cattleman's Meeting, Jordan Valley, OR (January 24, 2008; 50 participants)*
44. Optimizing Winter Feed Costs: Meeting your Cows Nutritional Requirements; *In: 34th Annual Hermiston Farm Fair & Trade Show, Hermiston, OR (November 28, 2007; 25 participants)*
43. Demonstration of "Cowculator" Ration Balancing Software; *In: 34th Annual Hermiston Farm Fair & Trade Show, Hermiston, OR (November 28, 2007; 25 participants)*
42. Nutritional Management Strategies for Intermountain Beef Producers; *In: Veterinary Medicine/Animal Sciences seminar series, Corvallis, OR (November 5, 2007; 35 participants)*
41. Cost Effective Winter Feeding; *In: Cattleman's College at the 2007 Oregon Cattleman's Association Annual Meeting, Redmond, OR (November 1, 2007; 80 participants)*
40. Early Weaning – How Can I Make it Work?; *In: Weaning and Preconditioning Program – Prineville, OR (July 31, 2007; 50 participants)*
39. History of the OSU Program at EOARC; *In: John Scharff Migratory Bird Festival Ranch Tour, Burns, OR (April 14, 2007; 15 participants)*
38. Beef Production in the Intermountain West; *In: OSU Young Cattlemen's Association Meeting, Burns, OR (June 3, 2006; 15 participants)*
37. Education – Where can it lead you?; *In: Burns High School Career Advancement class, Burns, OR (May 23, 2006; 27 participants)*
36. Management Strategies for Use of High-Alkaloid Grass Seed Straw by Ruminants; *In: Crop & Soil Science Seminar, Oregon State University (May 22, 2006; 30 participants)*
35. History of the OSU Program at EOARC; *In: John Scharff Migratory Bird Festival Ranch Tour, Burns, OR (April 8, 2006; 13 participants)*
34. Beef Production in Oregon; *In: Confederated Tribes of the Umatilla Indian Reservation and the Tiicham Soil and Water Conservation District – Cattle Feasibility Study Workshop, La Grande, OR (Feb. 2006; 20 participants)*
33. EOARC Research and extension Programs; *In: Burns High School FFA Animal Science Class, Burns, OR (Feb. 2006; 26 participants)*
32. Oregon State University and the Eastern Oregon Agricultural Research Center; *In: Lion's Club Meeting, Burns, OR (December 12, 2005; 30 participants)*
31. Beef Production in the Intermountain West; *In: OSU Young Cattlemen's Association Meeting, Burns, OR (May 2005; 13 participants)*
30. Overview of Research at the Eastern Oregon Agricultural Research Center; *In: John Scharff Migratory Bird Festival Ranch Tour, Burns, OR (April 2, 2005; 17 participants)*
29. Beef Cattle Nutrition and Ration Balancing; *In: Crane FFA Class Meeting, Crane, OR (December 2004; 16 participants)*
28. Benefits of PM vs AM Cutting of Alfalfa Hay; *In: Harney County Hay and Forage Association Meeting, Burns, OR (December 2, 2004; 20 participants)*
27. The Importance of Agriculture Research; *In: Kirkland Institute for Child and Family Study, Burns, OR (July 20, 2004; 18 participants)*
26. Careers in Agriculture; *In: Kirkland Institute for Child and Family Study, Burns, OR (July 20, 2004; 18 participants)*
25. Intermountain Beef Production; *In: Centennial – Portland/Burns Educational Exchange Program in Burns, OR (May 5, 2004; 20 participants)*
24. Inexpensive Ways to Winter your Cows; *In: Burns FFA Class, Burns, OR (March 15, 2004; 23 participants)*
23. Practical use of the OSU Cowculator; *In: Oregon Cattleman's Spring Quarterly Meeting, Corvallis, OR (March 12, 2004; 30 participants)*

22. Beef Cattle Management in the Intermountain West; *In: Meeting with Crane and Burns FFA students, Burns, OR (April 9, 2003; 55 participants)*
21. Research and Extension Programs at EOARC Burns; *In: Burns FFA Class, Burns, OR (March 2003; 21 participants)*
20. Livestock Judging Terms and Principles; *In: Harney County 4-H Livestock Judging Team Meeting, Burns, OR (March 2003; 13 participants)*
19. Mineral Supplementation of Beef Cows; *In: Douglas County Livestock Mineral Nutrition program in Roseburg, OR (December 17, 2002; Approximately 40 participants)*
18. Update on Endophyte-Related Cattle Losses; *In: 2002 Oregon Seed Growers League in Portland, OR (December 10, 2002; approximately 250 participants)*
17. Inexpensive Ways to Winter your Cows; *In: 2002 Hermiston Farm Fair, Hermiston, OR (December 4, 2002; 25 participants)*
16. Mineral Supplementation of Beef Cows; *In: Coos County Livestock Trace Mineral Nutrition Program, Coquille, OR (November 19, 2002; 35 participants)*
15. Sheep Production and Management; *In: Burns FFA Class, Burns, OR (March 2002; 18 participants)*
14. Ruminant Nutrition and Ration Balancing; *In: Burns FFA Class, Burns, OR (February 28, 2002; 25 participants)*
13. Nutrition and Reproductive Performance of Beef Cows; *In: OSU Calving School, Burns, OR (February 19, 2002; 20 participants)*
12. Supplementation of Beef Cattle During Drought; *In: Oregon State University Extension Service Drought Field Day, Prineville, OR (June 27, 2001; approximately 50 participants)*
11. Livestock Judging Terms and Principles; *In: Harney County Livestock Judging Team Meeting, Burns, OR (March 2001; 11 participants)*
10. Alfalfa Quality and Animal Performance; *In: Harney County Hay and Forage Growers Meeting, Burns, OR (February 8, 2001; 25 participants)*
9. Nutritional Management of Beef Cows; *In: Lake County Winter Beef Nutrition Meeting, Lakeview, OR (November 21, 2000; 30 participants)*
8. Nutritional Management Strategies to Improve Sustainability of Beef Production in the Intermountain West; *In: OSU Animal Sciences Graduate Seminar, Corvallis, OR (November, 2000; 25 participants)*
7. Livestock Judging Terms and Principles; *In: Harney County Livestock Judging Team Meeting, Burns, OR (March 2000; 17 participants)*
6. Beef Cattle Nutrient Requirements and Ration Balancing; *In: Harney County 4-H Steer and Heifer Feeders, Burns, OR (March 2000; 8 participants)*
5. Ewe Nutrition and Health Management – Pre & Post Lambing; *In: Harney County Sheep Growers Association Meeting, Burns, OR (November 20, 1999; 20 participants)*
4. Research and Extension Program at EOARC Burns; *In: Harney County Home Schoolers Tour, Burns, OR (Nov. 1999; 15 participants)*
3. Research and Extension Program at EOARC Burns; *In: Kirkland Institute for Child and Family Study, Burns, OR (Sept. 1999; 21 participants)*
2. Forage Quality – Terms, Formulas, and Uses; *In: Harney County Hay Growers Association Meeting, Burns, OR (March 11, 1999; 25 participants)*
1. Forage Quality – Terms, Formulas, and Uses; *In: Central Oregon Forage Conference and Trade Show, Prineville, OR (January 29 – 30, 1999; 75 participants)*

National

24. Livestock grazing in the Sagebrush Steppe – Management Considerations; In: 2019 Science in the Sagebrush Steppe, Riley, OR (April 26, 2019; 55 participants)
23. Eastern Oregon Agricultural Research Center – Research and Outreach Programs; In: 2018 Missouri, Iowa, and Nebraska Agricultural Tour, Burns, OR (September 7, 2018; 51 participants).
22. Livestock grazing in the Sagebrush Steppe – Management Considerations; In: 2017 Science in the Sagebrush Steppe, Riley, OR (April 28, 2017; 41 participants)
21. Livestock grazing in the Sagebrush Steppe – Management Considerations; In: 2016 Science in the Sagebrush Steppe, Riley, OR (April 22, 2016; 65 participants)
20. Livestock & Wildlife interactions in the Sagebrush Steppe; In: 2015 Science in the Sagebrush Steppe, Riley, OR (April 24, 2015; 22 participants)
19. Climatic Variability – Something New for Cow/Calf Producers?; In: *Idaho Range Livestock Symposium & Tour. Marsing, ID (April 9, 2015; 65 participants)*
18. Climatic Variability – Something New for Cow/Calf Producers?; In: *Idaho Range Livestock Symposium & Tour. Burley, ID (April 8, 2015; 90 participants)*
17. Climatic Variability – Something New for Cow/Calf Producers?; In: *Idaho Range Livestock Symposium & Tour. Idaho Falls, ID (April 7, 2015; 110 total participants)*
16. Impacts of Wolf Predation on Cattle Behavior and Stress Response; In: *Spokane 4-H and Extension Workshop, Spokane, WA (Dec. 20, 2014; 26 participants; presented via Polycom)*
15. Livestock & Wildlife interactions in the Sagebrush Steppe; In: 2014 Science in the Sagebrush Steppe, Riley, OR (April 26, 2014; 22 participants)
14. Strategic Supplementation in the Intermountain West; In: *Winter Ag Meeting, University of California Coop. Extension/McArthur Farm Supply. Alturas, CA (February 21, 2012; 43 participants)*
13. Applied Nutritional Strategies for the Northwest; In: *Applied Reproductive Strategies in Beef Cattle – Northwest; Boise, ID (September 30 – October 1, 2011; 140 participants)*
12. Alternative Feeds – Can I Feed Them and How Much?; In: *2009 Intermountain Cow Symposium & Magic Valley Winter Beef School. Twin Falls, ID (Jan. 14, 2009; 125 participants)*
11. CowCulator – A tool for quick and easy evaluation of cow diets; In: *2009 Intermountain Cow Symposium & Magic Valley Winter Beef School. Twin Falls, ID (Jan. 14, 2009; 125 participants)*
10. Feeding Ethanol Co-products from Corn to Beef Cattle; In: *Nevada Cattlemen's Update 2008, Wellington, NV (January 11, 2008; 70 participants)*
9. Feeding Ethanol Co-products from Corn to Beef Cattle; In: *Nevada Cattlemen's Update 2008, Winnemucca, NV (January 10, 2008; 80 participants)*
8. Feeding Ethanol Co-products from Corn to Beef Cattle; In: *Nevada Cattlemen's Update 2008, Elko, NV (January 9, 2008; 100 participants)*
7. Feeding Ethanol Co-products from Corn to Beef Cattle; In: *Nevada Cattlemen's Update 2008, Ely, NV (January 8, 2008; 80 participants)*
6. Feeding Ethanol Co-products from Corn to Beef Cattle; In: *Nevada Cattlemen's Update 2008, Fallon, NV (January 7, 2008; 40 participants)*
5. Feeding Ethanol Co-products from Corn to Beef Cattle; In: *Nevada Cattlemen's Update 2008, Reno, NV (January 7, 2008; 90 participants)*
4. Beef Cattle Production in the Intermountain West; In: *Ecology of Grazing Lands Systems 2005 Field Trip Tour (students and advisors from University of Missouri, University of Tennessee, Texas Tech University, and Virginia Tech) – Understanding Agriculture Across America, Burns OR (June 2, 2005; 30 participants)*
3. Drought and Limited Forage Resources – What do I do?; In: *2003 Idaho Cattleman's Annual Meeting, Boise, ID (November 11-13, 2003; 200 participants)*

2. Grass Seed Straw – Considerations for use as a forage source for ruminants; *In: Alternative Feeds for Livestock – Third National Symposium, Kansas City, MO (November 4-5, 2003; 200 participants)*
1. Winter Nutrition of Beef Cows; *In: Southwest Idaho Winter Beef School, Caldwell, ID (January, 20, 2000; 50 participants)*

International

3. Nutritional Management of Gestating Beef Females; *In: 16th Annual Curso Novos Enfoques na Producao e Reproducao de Bovinos. Uberlandia-Minas Gerais, Brazil (March 14 – 15, 2012; 500 participants).*
2. Crude Protein Supplementation of Beef Cattle Consuming Low-Quality Forage on Pasture; *In: 16th Annual Curso Novos Enfoques na Producao e Reproducao de Bovinos. Uberlandia-Minas Gerais, Brazil (March 14 – 15, 2012; 500 participants).*
1. Using Mycosorb to Address Physiological Changes Induced by Endophyte-Infected Tall Fescue; *In: Alltech's 23rd Annual International Symposium – Lexington, KY (May 20-23, 2007; approximately 1500 participants)*

Summary of workshops I organized or co-organized

Topic	# of events	Presentations *	Impact	# of attendees
Field Days & Tours	19	8	Statewide/Regional	1,457
Youth Education	15	15	Local/Statewide	1,311
Cattle/Ranch Management	17	21	Local/Statewide/Regional	609
Total	51	44		3,377

*Presentations I gave in events I organized/co-organized

Events Organized or Co-Organized

51. Evergreen College Tour & Field Day – Burns, OR (May 30-31, 2019)
Role: Co-organizer and speaker: 32 attendees
50. EOARC Field Trip for Harney County Second Graders – Burns, OR (May 9, 2019)
Role: Co-organizer and speaker: 90 attendees
49. Artificial Insemination School – EOARC Burns – Burns, OR (March 27-29, 2019)
Role: Organizer Co-Instructor: 12 attendees
48. OSU 2018 Beef Industry Tour – Efficiency of the Cow Herd; Pendleton, Prineville, Roseburg, and Corvallis (October 22-25, 2018).
Role: Co-organizer and speaker: approximately 42 attendees
47. EOARC Field Trip for Harney County Second Graders – Burns, OR (May 8, 2018)
Role: Co-organizer and speaker: approximately 90 attendees
46. Artificial Insemination School – EOARC Burns – Burns, OR (March 28-30, 2018)
Role: Organizer Co-Instructor: 11 attendees
45. OSU Range Field Day – Riley, OR (June 27, 2017)
Role: Co-organizer: 75 attendees
44. EOARC Field Trip for Harney County Second Graders – Burns, OR (May 11, 2017)
Role: Co-organizer and speaker: approximately 90 attendees

43. OSU Range Field Day – Brothers, OR (June 28, 2016)
Role: Co-organizer: 60 attendees
42. EOARC Field Trip for Harney County Second Graders – Burns, OR (May 12, 2016)
Role: Co-organizer and speaker: approximately 90 attendees
41. Ranch Planning Workshop: Excel-Based Tools for Commercial Cattle Producers – Ontario, OR (December 16, 2015)
Role: Co-organizer: 4 attendees
40. Ranch Planning Workshop: Excel-Based Tools for Commercial Cattle Producers – La Grande, OR (December 16, 2015)
Role: Co-organizer: 5 attendees
39. OSU Range Field Day – Union, OR (July 9, 2015)
Role: Co-organizer: 35 attendees
38. EOARC Field Trip for Harney County Second Graders – Burns, OR (May 13, 2015)
Role: Co-organizer and speaker: approximately 80 attendees
37. Evergreen College Tour & Field Day – Burns, OR (May 13-14, 2015)
Role: Co-organizer and speaker: 18 attendees
36. EOARC Field Trip for Harney County Second Graders – Burns, OR (May 29, 2014)
Role: Co-organizer and speaker: approximately 70 attendees
35. EOARC Beef Field Day – Burns, OR (May 15, 2014)
Role: Co-organizer and speaker: 100 attendees
34. Comprehensive Ranch Management Training: EXCELing for Beef Production – Burns, OR (December 18, 2013)
Role: Co-organizer and speaker: 10 attendees
33. EOARC Field Trip for Harney County Second Graders – Burns, OR (May 29, 2013)
Role: Co-organizer and speaker: approximately 80 attendees
32. OSU Range Field Day – Riley, OR (July 2, 2013)
Role: Co-organizer: 90 attendees
31. OSU Range Field Day – Riley, OR (June 26, 2012)
Role: Co-organizer: 110 attendees
30. EOARC Field Trip for Harney County Second Graders – Burns, OR (May 30, 2012)
Role: Co-organizer and speaker: approximately 75 attendees
29. EOARC Beef Field Day – Burns, OR (May 17, 2012)
Role: Co-organizer and speaker: 80 attendees
28. Comprehensive Ranch Management Training: Artificial Insemination Class – Burns, OR (May 14-16, 2012)
Role: Organizer: 12 attendees
27. Comprehensive Ranch Management Training: Bull Selection Workshop – Seneca, OR (Feb. 15, 2012)
Role: Co-organizer and speaker: 30 attendees
26. EOARC Field Trip for Harney County Second Graders – Burns, OR (May 18, 2011)
Role: Co-organizer and speaker: approximately 80 attendees
25. OSU Range Field Day – Union, OR (June 29, 2010)
Role: Co-organizer: 60 attendees
24. EOARC Field Trip for Harney County Second Graders – Burns, OR (June 3, 2010)
Role: Co-organizer and speaker: approximately 80 attendees
23. EOARC Beef Field Day – Burns, OR (May 27, 2010)
Role: Co-organizer and speaker: 70 attendees

22. Comprehensive Ranch Management Training: Winter Feed Costs Forum - Condon, OR (February 2010)
Role: Co-organizer and speaker: 50 attendees
21. OSU Range Field Day – Riley, OR (June 24, 2009)
Role: Co-organizer: 100 attendees
20. EOARC Field Trip for Harney County Second Graders – Burns, OR (May 20, 2009)
Role: Co-organizer and speaker: approximately 80 attendees
19. Comprehensive Ranch Management Training: Genetic Selection Strategy Workshop – Seneca, OR (Feb. 11, 2009)
Role: Co-organizer and speaker: 40 attendees
18. Comprehensive Ranch Management Training: Winter Feed Costs Forum – La Grande, OR (Jan. 16, 2009)
Role: Co-organizer and speaker: 50 attendees
17. Comprehensive Ranch Management Training: Winter Feed Costs Forum – Vale, OR (Nov. 20, 2008)
Role: Co-organizer and speaker: 20 attendees
16. Comprehensive Ranch Management Training: Winter Feed Costs Forum – Seneca, OR (Sept. 8, 2008)
Role: Co-organizer and speaker: 50 attendees
15. Comprehensive Ranch Management Training: Winter Feed Costs Forum – Burns, OR (July 31, 2008)
Role: Co-organizer and speaker: 15 attendees
14. Comprehensive Ranch Management Training: Winter Feed Costs Forum – Prineville, OR (July 24, 2008)
Role: Co-organizer and speaker: 40 attendees
13. OSU Range Field Day – Ontario, OR (June 24, 2008)
Role: Co-organizer: 120 attendees
12. Comprehensive Ranch Management Training: Winter Feed Costs – Fields, OR (Dec. 21, 2007)
Role: Co-organizer and speaker: 10 attendees
11. Comprehensive Ranch Management Training: Winter Feed Costs – Burns, OR (Dec. 8, 2007)
Role: Co-organizer and speaker: 15 attendees
10. OSU Range Field Day – La Grande, OR (June 26, 2007)
Role: Co-organizer: 100 attendees
9. EOARC Field Trip for Harney County Second Graders – Burns, OR (May 31, 2007)
Role: Co-organizer and speaker: approximately 80 attendees
8. OSU Range Field Day – Prineville, OR (June 27, 2006)
Role: Co-organizer: 100 attendees
7. EOARC Field Trip for Harney County Second Graders – Burns, OR (May 25, 2006)
Role: Co-organizer and speaker: approximately 80 attendees
6. Applied Reproductive Strategies in Beef Cattle - Reno, NV (Oct. 27-28, 2005)
Role: Co-organizer (Chair of Bull Reproduction Section): 200 attendees
5. OSU Range Field Day – Union, OR (June 28, 2005)
Role: Co-organizer: 100 attendees
4. EOARC Field Trip for Harney County Second Graders – Burns, OR (May 26, 2005)
Role: Co-organizer and speaker: approximately 80 attendees

3. OSU Range Field Day – Riley, OR (June 29, 2004)
Role: Co-organizer and speaker: 100 attendees
2. EOARC Field Trip for Harney County Second Graders – Burns, OR (May 27, 2004)
Role: Co-organizer and speaker: approximately 80 attendees
1. Drought Field Day – Burns, OR (May 31, 2001)
Role: Co-organizer and speaker: approximately 60 attendees

Presentations in events that I organized or co-organized

44. Management Considerations for Beef Cattle Management in the Great Basin; *In: Evergreen College Tour & Field Day – Burns, OR (May 30-31, 2019; 32 attendees)*
43. Land Management and History in the Great Basin; *In: Evergreen College Tour & Field Day – Burns, OR (May 30-31, 2019; 32 attendees)*
42. The “Holey Cow”; *In: Harney County 2nd Graders EOARC Field Trip (May 9, 2019; 68 attendees)*
41. Using the OSU Across-Breed EPD Calculator; *In: EOARC AI School (March 29, 2019; 12 attendees)*
40. Nutrition for Reproductive Success; *In: EOARC AI School (March 29, 2019; 12 attendees)*
39. Cow Nutrition During Gestation and the Effect on Cow & Calf Performance; *In: 2018 OSU Beef Industry Tour – Efficiency of the Cow Herd, Corvallis, OR (Oct. 25, 2018; 8 participants)*
38. Cow Nutrition During Gestation and the Effect on Cow & Calf Performance; *In: 2018 OSU Beef Industry Tour – Efficiency of the Cow Herd, Roseburg, OR (Oct. 24, 2018; 13 participants)*
37. Cow Nutrition During Gestation and the Effect on Cow & Calf Performance; *In: 2018 OSU Beef Industry Tour – Efficiency of the Cow Herd, Prineville, OR (Oct. 23, 2018; 14 participants)*
36. Cow Nutrition During Gestation and the Effect on Cow & Calf Performance; *In: 2018 OSU Beef Industry Tour – Efficiency of the Cow Herd, Pendleton, OR (Oct. 22, 2018; 7 participants)*
35. The “Holey Cow”; *In: Harney County 2nd Graders EOARC Field Trip (May 8, 2018; 90 attendees)*
34. Using the OSU Across-Breed EPD Calculator; *In: EOARC AI School (March 30, 2018; 11 attendees)*
33. Nutrition for Reproductive Success; *In: EOARC AI School (March 30, 2018; 11 attendees)*
32. The “Holey Cow”; *In: Harney County 2nd Graders EOARC Field Trip (May 11, 2017; 90 attendees)*
31. The “Holey Cow”; *In: Harney County 2nd Graders EOARC Field Trip (May 12, 2016; 90 attendees)*
30. Supplementation Considerations and the OSU CowCulator; *In: Ranch Planning Workshop: Excel-Based Tools For Commercial Cattle Producers, Ontario, OR (Dec. 17, 2015; 4 attendees)*
29. Supplementation Considerations and the OSU CowCulator; *In: Ranch Planning Workshop: Excel-Based Tools For Commercial Cattle Producers, La Grande, OR (Dec. 16, 2015; 5 attendees)*
28. The “Holey Cow”; *In: Harney County 2nd Graders EOARC Field Trip (May 13, 2015; 80 attendees)*
27. EOARC Research and Extension Programs; *In: Evergreen College Tour & Field Day – Burns, OR (May 13-14, 2015; 18 attendees)*
26. The “Holey Cow”; *In: Harney County 2nd Graders EOARC Field Trip (May 29, 2014; 70 attendees)*
25. Nutritional Management during Drought; *In: EOARC Beef Cattle Field Day, Burns, OR (May 15, 2014; 100 attendees)*
24. OSU CowCulator; *In: Comprehensive Ranch Management Training: EXCELing for Beef Production, Burns, OR (December 18, 2013; 10 attendees)*

23. The “Holey Cow”; *In: Harney County 2nd Graders EOARC Field Trip (May 29, 2013; 80 attendees)*
22. Bull Selection and the OSU Across Breed EPD Calculator; *In: Comprehensive Ranch Management Training – Bull Selection Workshop, Seneca, OR (Feb. 15, 2012; 30 attendees)*
21. The “Holey Cow”; *In: Harney County 2nd Graders EOARC Field Trip (May 30, 2012; 75 attendees)*
20. Supplementation Research with Low-Quality Forages; *In: EOARC Beef Cattle Field Day, Burns, OR (May 17, 2012; 80 attendees)*
19. OSU Across-Breed EPD Calculator; *In: Comprehensive Ranch Management Training: Bull Selection Workshop, Seneca, OR (Feb. 15, 2012; 30 attendees)*
18. The “Holey Cow”; *In: Harney County 2nd Graders EOARC Field Trip (May 18, 2011; approximately 80 attendees)*
17. The “Holey Cow”; *In: Harney County 2nd Graders EOARC Field Trip (June 3, 2010; approximately 80 attendees)*
16. Consequences of Late Gestational Nutrition on Future Performance; *In: EOARC Beef Cattle Field Day, Burns, OR (May 27, 2010; 70 attendees)*
15. The “Holey Cow”; *In: Harney County 2nd Graders EOARC Field Trip (May 20, 2009; approximately 80 attendees)*
14. Tools for Genetic Selection; *In: Comprehensive Ranch Management Training: Genetic Selection Strategy Workshop – Seneca, OR (Feb. 11, 2009; 40 attendees)*
13. OSU CowCulator; *In: Comprehensive Ranch Management Training: Winter Feed Costs Forum, La Grande, OR (Jan. 16, 2009; 50 attendees)*
12. OSU CowCulator; *In: Comprehensive Ranch Management Training: Winter Feed Costs Forum, Vale, OR (Nov. 20, 2008; 20 attendees)*
11. OSU CowCulator; *In: Comprehensive Ranch Management Training: Winter Feed Costs Forum, Seneca, OR (Sept. 8, 2008; 50 attendees)*
10. OSU CowCulator; *In: Comprehensive Ranch Management Training: Winter Feed Costs Forum, Burns, OR (July 31, 2008; 15 attendees)*
9. OSU CowCulator; *In: Comprehensive Ranch Management Training: Winter Feed Costs Forum, Prineville, OR (July 24, 2008; 40 attendees)*
8. Strategies to Reduce Winter Feed Costs; *In: Comprehensive Ranch Management Training: Winter Feed Costs, Fields, OR (December 21, 2007; 10 attendees)*
7. Strategies to Reduce Winter Feed Costs; *In: Comprehensive Ranch Management Training: Winter Feed Costs, Burns, OR (December 8, 2007; 15 attendees)*
6. The “Holey Cow”; *In: Harney County 2nd Graders EOARC Field Trip (May 31, 2007; approximately 80 attendees)*
5. The “Holey Cow”; *In: Harney County 2nd Graders EOARC Field Trip (May 25, 2006; approximately 80 attendees)*
4. The “Holey Cow”; *In: Harney County 2nd Graders EOARC Field Trip (May 26, 2005; approximately 80 attendees)*
3. Strategic Supplementation of Beef Cattle; *In: OSU Range Field Day, Riley, OR (June 29, 2004; 100 attendees)*
2. The “Holey Cow”; *In: Harney County 2nd Graders EOARC Field Trip (May 27, 2004; approximately 80 attendees)*
1. Supplementation of Beef Cattle During Drought; *In: Drought Field Day, Burns, OR (May 31, 2001; 60 attendees)*

iv. Post-Doctorial Scholars, Graduate Students, & Interns

Post-Doctorial Scholars

Name	Period
Rodrigo Marques	Oct. 2017 to September 2018

Graduate Students: Major () or (**) Co-Major Professor*

Name	Degree	University	Graduation
Dustin L. McGuire**	M.S.	OSU	Fall 2013
Melissa Merrill*	Ph.D.	OSU	Spring 2007
Michael Fisher*	M.S.	OSU	Fall 2003
Thomas Currier*	M.S.	OSU	Fall 2002
Chris Schauer*	Ph.D.	OSU	Fall 2003

Graduate Students: Committee member

Name	Degree	University	Graduation
Kala Ruth	M.S.	OSU	2022; Anticipated
Sally Blair	M.S.	OSU	2021; Anticipated
Qianqian Fan	M.S.	OSU	Spring 2019
Katana Lippolis**	Ph.D.	OSU	Spring 2018
Kelsey M. Schubach	M.S.	OSU	Spring 2017
Rodrigo S. Marquez	Ph.D.	OSU	Spring 2017
Michael Ellis	M.S.	OSU	Spring 2016
Thomaz A. Guarnieri Filho	M.S.	São Paulo State (Brazil)	Spring 2015
Bruno Cappellozza	Ph.D.	OSU	Spring 2015
Dustin Keys	M.S.	OSU	Spring 2015
Maria M. Reis	M.S.	OSU	Fall 2014
Bruno Cappellozza	M.S.	OSU	Fall 2012
Alberto Perez Amaro	Ph.D.	OSU	2008; Quit
Mark Estes	M.S.	OSU	Fall 2008
Daal Damiran	Ph.D.	OSU	Fall 2007
Tyson Shirley	M.S.	OSU	Fall 2002

Undergraduate Interns

Name	Period	University
Julia Lewis Barnes	6/16 to 8/16	OSU
Caroline Hardy Yearian	6/15 to 8/15	OSU
Filipe Sanches	7/12 to 10/12	Univ. Estadual de Maringá (Brazil)
Caitlin Rose	1/11 to 3/11	University of Minnesota
Frederico Nery	8/09 to 11/09	Federal Univ. of Goiás (Brazil)

Research

I have developed an integrated research and extension program focusing on nutrition and management strategies for beef production in arid and semi-arid environments. My program has centered on the cow-calf sector because cow-calf production systems are the foundation of the US and worldwide beef industries, whereby the amount and quality of cattle available for harvest are determined. The cow-calf system is a critical component of western beef production,

making up 90% of all western beef operations and accounting for nearly 80% of beef cattle numbers in the area. Also, the beef cattle industry is a critical part of Oregon's economy with sale of cattle and calves, consistently the #1 or #2 agricultural commodity in Oregon. The cow-calf industry generates approximately two-thirds of the gross annual revenue from agriculture in eastern Oregon with arid/semi-arid rangelands and coniferous forests comprising over 90% of the forage base for cow-calf production (acreage basis).

Consequently, I have concentrated my research efforts in three areas: 1) supplementation strategies: improving our understanding and knowledge of where, when, why, and how, 2) management strategies to improve cattle performance and/or health, and 3) alternative feedstuff considerations. These research areas have direct application to Oregon and the intermountain west; however, they also have worldwide application. I collaborate significantly with colleagues from the EOARC, OSU, and other US and international institutions to enhance cattle production efficiency in other regions of the country and World. My research program at OSU has generated novel information that has attracted attention from the beef industry and academia, resulting in invitations to speak at distinguished domestic and international conferences, interviews with popular periodicals, requests for educational articles, and publication of several manuscripts in refereed journals.

Precision Livestock Management Systems for Western Rangelands

In 2020 and 2021, a multidisciplinary, multi-agency team of researchers from Montana, Nebraska, and Oregon worked together to obtain long-term federal funding through the USDA-ARS (\$3 million/year/5 years). The partners are uniquely qualified to provide the interdisciplinary framework, infrastructure, facilities, and intellectual resources to develop and disseminate precision livestock management systems that promote ecologically, socially, and economically sustainable practices for rangeland-based livestock production. The research is focused on providing the information and tools needed to assist ranchers and land managers in optimizing land resources for beef cattle and sheep production while maintaining or enhancing the vegetation diversity and the biological process that are mediated, in part, by healthy soils and desirable plant communities. The regional benefits include the identification of Precision Agriculture Data that more accurately defines optimal and/or strategic livestock management practices on rangelands that increase resource management (environmental and animal), community vitality, and animal health and welfare of the Western US Livestock Industry. This project will also develop and evaluate tools to manage western rangelands for optimization of plant/soil biological processes that are critical to the long-term economic outlook of the rural west as well as the multiple ecosystem services contained within the public and private rangelands of the Western US. Therefore, this research is critical in maintaining and enhancing the livestock industries that are the foundation of the Western US agricultural economy and critical to future success of rural communities, economies, and ecosystems.

Supplementation Strategies: Improving our Understanding and Knowledge of Where, When, Why, and How

One of the main challenges facing the beef cattle industry has been unprecedented increases in the costs of production that threaten the solvency of livestock operations. Compound this with inconsistent forage production and quality, due to the short growing seasons and inherent climatic variability associated with arid/semi-arid

rangelands, and cow-calf producers are continually challenged to develop supplementation strategies that maximize forage use while minimizing inputs. This research priority has resulted in a wide variety of experiments, including studies evaluating supplementation frequency, supplement type, forage type, forage quality, gestational nutrition on cow performance and offspring future productivity, grazing behavior, cattle performance, and nutrient digestion and metabolism. This has provided our discipline with a better understanding of, and ability to predict the responses to, supplementation of ruminants consuming low-quality forages. This research has provided novel data to the discipline concerning the effects of supplementation of cattle consuming low-quality forages. Specific examples include: 1) the first evidence demonstrating how climatic variability alters forage nutrient content (protein, energy, minerals) and has a subsequent influence on cattle grazing behavior; 2) determining that infrequent supplementation can be an effective strategy to reduce the costs of supplementation while maintaining acceptable ruminal fermentation, forage intake, microbial efficiency, grazing behavior, and animal performance; and 3) providing the first direct comparison, along with a suspected rationale, of why forage intake by cattle consuming low-quality, cool-season forages is often different than that observed with cattle consuming similar quality warm-season forages. These are just 3 examples of how my research evaluating supplementation of ruminants consuming low-quality forages has, and continues, to provide cattle managers and nutritionists with relevant and timely information necessary to develop supplementation programs to economically meet desired objectives.

Management Strategies to Improve Cattle Performance and/or Health

Cattle are routinely exposed to a variety of environmental, nutritional, physical, and psychological stressors associated with external stimuli related to conventional practices within beef production systems. The combination of some or all of these stressors is a major predisposing cause for impaired performance and health disorders. One example, the bovine respiratory disease complex, is the most common and costly cattle disease in the US, costing the national beef industry approximately \$1 billion annually. This type of economic loss includes mortality, costs associated with wasted feed resources, cost and application of pharmaceuticals, and reduced performance. Therefore, one of the long-term goals of my research program is to identify strategies to mitigate decreased performance and stress-related illnesses elicited by routine cattle management procedures, thereby promoting cattle welfare and productivity. This area of my program has evaluated multiple areas that can influence the productivity and, more importantly, profitability of cattle operations. These areas include: 1) health concerns of feeding grass seed straw (Oregon is the World's largest producer of cool-season forage seed); 2) mid- and late-gestational management of cows; 3) strategies to improve reproductive efficiency of cattle managed in rangeland environments; and 4) research evaluating the mechanisms by which stress impacts health in cattle with special emphasis on the development of management and nutritional alternatives to help mitigate the associated negative consequences. This research has utilized many protocols and evaluated many aspects of the cow-calf system, resulting in a productive and internationally recognized program. Some highlights of this program are: 1) determination of alkaloid threshold levels and nutritional management strategies that help eliminate, or greatly reduce, the negatives consequences of cattle consuming high-endophyte/alkaloid grass seed straw; 2) early-weaning improves cow grazing distribution, improves cow body condition entering

the winter feeding period, reduces winter feed costs, and provides greater flexibility and options for marketing calves; 3) animal temperament has a direct influence on both reproduction and health, and acclimation to human handling improves temperament and hastens puberty attainment in beef females; 4) prior predation experience has a long-term negative effect on cow temperament and response to a simulated predation event; and 5) development of management strategies (nutritional and pharmaceutical) that ameliorate many of the negatives consequences of a stress event, thereby improving animal performance and welfare.

Alternative Feedstuff Considerations

Intermountain beef producers face the challenge of having to feed harvested forages for up to 6 or 7 months of the year due to significant snow accumulation. This necessitates having from 1.5 to 3.0 tons of harvested feed per cow, costing between \$225 and \$450, available each winter. As a result, the profitability of cow-calf producers depends on the development of economical nutritional management strategies that increase their flexibility while maintaining acceptable levels of animal performance. Studies evaluating the safety, nutrient digestibility, animal performance, and costs associated with alternate/non-traditional feedstuffs are conducted to provide beef cattle producers and nutritionist with options to help control annual feed costs. Key findings of this research program are: 1) development of the first nutritional calendar for forage kochia in Oregon; 2) the first research to evaluate the ability of the ruminant gastrointestinal tract to influence the ability of some seeds to germinate (forage kochia and perennial pepperweed) and thereby potentially affect distribution and establishment of the associated plant species; and 3) established that Russian knapweed can be effectively used as a feedstuff that is comparable to alfalfa, thereby providing land managers with another tool to help manage invasive weeds in their operation.

Collaborative Research

I collaborate with several national and international research groups, always with the goals of better understanding nutritional physiology of ruminants, maximizing cattle production efficiency, and sustainable management of rangelands. My role has been assistance with experimental design, sample analysis, article preparation, and/or outreach. These include collaborative efforts with research groups at OSU and other US (University of Florida, North Dakota State University, University of Kentucky, USDA-ARS) and international institutions (São Paulo State University). Also, I have collaborated on a Natural Resource Conservation Service Conservation Improvement Grant (Sage-Grouse Conservation: Linking Conservation with Habitat Metrics) with The Nature Conservancy.

Extension

My primary responsibility as an extension specialist is providing information and support to county faculty/staff, state and federal agencies, and industry stakeholders. Supporting county extension faculty/staff allows them to be the first contact for local beef producers, thereby helping foster working relationships between producers, agents, and specialists. In addition, I help provide leadership and organizational guidance for various workshops and trainings that are designed to provide management skills and tools for both youth and adults in Oregon related to rangeland-based beef production. This could not be accomplished without the quality of our dedicated field

faculty/staff. I strive to provide beef cattle producers with the knowledge and expertise to develop management practices that improve their overall profitability while benefiting animal welfare and rangeland health and ecological function. In addition, I am actively involved in multi-state extension activities and committees. I incorporate results from my research program into extension presentations and publications for dissemination to county extension agents and ruminant livestock producers. Key Extension Programs include:

- ✓ **EOARC Artificial Insemination School** - 2018 to present. The purpose of this short course is to offer training in cattle artificial insemination to members of the general public. Ninety-five percent of students who complete this course should be proficient in cattle artificial insemination, e.g. purchasing their own semen, achieving high conception rates in their herds, etc. My responsibility includes obtaining appropriate number and quality of cattle to be used, lectures on nutritional management for reproductive success and use of the OSU Across-Breed EPD Calculator, and hands-on instruction for proper AI technique in live cows.
- ✓ **OSU Beef Tour** - 2011 to present. Normally held every-other-year; week-long traveling tour around the state of Oregon presenting research and extension information on relevant industry issues with local, state, and/or national speakers; responsibilities include development of agenda, contact/obtain speakers, advertising, and arrange travel. **2020:** Cancelled due to COVID; **2018** Locations: Pendleton, Prineville, Roseburg, Corvallis. **2015** locations: Baker City, Prineville, Medford, and Springfield. **2013** locations: Fossil, The Dalles, Klamath Falls, Corvallis. **2011** locations: Baker City, Burns, Prineville, Roseburg, Albany.
- ✓ **Beef Cattle Sciences Website** – <https://blogs.oregonstate.edu/beefcattle/>; 2009 to present. The website was developed with suggestions from many OSU faculty members, including research/teaching faculty, Extension specialists, and county Extension educators. They also contribute significantly by promoting the website to the beef industry, advertising local and statewide Extension activities and service, and submitting Extension or research articles for publication. Since 2017, I have been responsible for overall content.
- ✓ **OSU Beef Cattle Library** – <https://blogs.oregonstate.edu/beefcattle/beef-cattle-extension-library/>; 2009 to present. This is an on-line database of peer-reviewed Extension articles written by OSU Extension personnel, and developed to provide up-to-date, novel, and reliable information to beef producers and other professionals within the Oregon beef industry. Since 2016 have been the editor-in-chief.
- ✓ **Comprehensive Ranch Management Training** – 2007 to present. This is an ongoing multi-county program conducted in collaboration with Dustin Johnson, Rangeland Outreach Coordinator. The target audience for this program includes livestock producers operating in the semiarid Intermountain West. Beef cattle producers are provided information on management strategies and tools that will increase productivity and profit. A "whole systems" approach to management is stressed. Information is provided through newsletters, website, workshops and ranch visits. With increased interdisciplinary collaboration, other integrated resource programming needs will be identified and compiled into an overall program of comprehensive whole-ranch management planning process with applicability to

all livestock producers operating in the Intermountain West. The current primary emphasis of the program is development and dissemination of information and tools to assist beef cattle producers in collecting and evaluating cattle and monitoring records.

- ✓ **Western Beef Resource Committee** – 1999 to present. This is a multi-state committee composed of beef extension agents and specialists from Idaho, Arizona, California, Colorado, Hawaii, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming. We meet once a year in a central location to update and revise the Cattle Producers Handbook. I served as co-chair of the nutrition section of the committee from 1999 to 2006. My duties included serving as section editor for all proposed peer-reviewed manuscripts, suggesting subject areas for new manuscripts, and determining if an existing manuscript needs revision. I am currently an active member. The Cattle Producers Handbook has been enormously successful with over 10,000 copies sold since 1992. The current edition contains approximately 900 pages and is used as a textbook for beef production classes in many universities in the western United States. In addition, I have authored or co-authored 10 peer-reviewed manuscripts in the current edition of the Cattle Producers Handbook.
- ✓ **Oregon Cattlemen’s Association Educational Programming Committee** - 2010 to present. This educational event is held in conjunction with the Oregon Cattlemen’s Association Annual Meeting; I serve as OSU representatives; assist with meeting agenda and program development.
- ✓ **Oregon Cattlemen’s Magazine (previously Oregon Beef Producer)** - 2007 to present. I am responsible for organizing and scheduling OSU faculty to write monthly articles for the Oregon Beef Producer, the publication of the Oregon Cattlemen’s Association (readership of approximately 2,200).
- ✓ **Development and dissemination of Management Tools**
The primary emphasis of the program is the development and dissemination of information and tools to assist beef cattle producers in the development of their day-to-day and annual management plans. This program has resulted in the development of the OSU Cowculator (<https://blogs.oregonstate.edu/beefcattle/forage-evaluation/>; modified from the original OK State University Version; ration evaluation program for beef cows), the OSU Across-Breeds EPD Calculator (<https://blogs.oregonstate.edu/beefcattle/epd-calculator/>; program that allows beef producers to easily compare EPDs from sires of different breeds), and the Meadow Fertilization Worksheet. These programs are EXCEL-based spreadsheets that are available, free-of-charge, for download from the OSU Beef Cattle Sciences website. Follow-up evaluations have indicated that cattle producers are able to save up to 25% of their annual winter feed costs by feeding to meet cow nutrient requirements during the winter-feeding period. At current winter feed costs, this equates to savings of roughly \$100 per cow or \$50,000/year for a 500-head operation.
- ✓ **Experiential Education**
High Desert Youth Range Camp (<http://oregonstate.edu/dept/eoarc/range-camp>; 2015 to present) - The organizers of range camp have a passion for our western rangelands and want

youth to know how exciting these lands are and how important the management of these lands are to our communities. We have designed range camp for students to get out on the landscape and learn about rangelands in a fun atmosphere. Many career opportunities are available in the range management field and are highlighted during camp. Campers learn about soils, plants, wildlife, GPS units, and talk with ranchers and scientists. College credit is earned for all students completing camp from Treasure Valley Community College. My personal responsibility is a module focused on what cattle eat and associated research related to forage intake and digestibility. **2021:** cancelled due to COVID; **2020:** cancelled due to COVID; **2019:** 13 students; **2018:** 15 students; **2017:** 12 students; **2016:** not held; **2015:** 23 students.

Science in the Sagebrush Steppe – 2014 to present. This annual event is a 3-day experiential learning experience for undergraduate college students studying rangeland and/or natural resource management. It involves a number of interactive learning modules designed to improve the students understanding of principles used in developing rangeland management plans. The program concludes with students preparing a management plan based on knowledge learned, a problem/issue outlined at the beginning of the program, and interaction with instructors/organizers. Personal responsibility is a module focused on balancing profit and resource use on working landscapes utilizing grazing in sagebrush steppe systems. **2021:** Cancelled due to COVID; **2020:** Cancelled due to COVID; **2019:** 55 students from University of Nevada-Reno, Humboldt State University, Oregon State University, California Polytechnic State University, College of Southern Idaho, California State University – Chico, and the University of Idaho. **2018:** 28 students from University of Nevada-Reno, Humboldt State University, Shasta College, and the University of Idaho. **2017:** 41 students from Oregon State University, University of Nevada-Reno, Humboldt State University, University of Idaho, and Treasure Valley Community College. **2016:** 65 students from University of Nevada-Reno, Humboldt State University, University of Idaho, and Treasure Valley Community College. **2015:** 22 students from University of Nevada-Reno, Humboldt State University, Shasta College. **2014:** 22 students from University of Nevada-Reno, Humboldt State University, University of Idaho, and Treasure Valley Community College.

Harney County 2nd graders Field Trip - 2004 to present. I help co-organize this annual science-based field trip for the second-graders of Harney County; responsible for setting up facilities and infrastructure support, including a presentation on cattle nutrition and management. Topics include all aspects of the science and research conducted at EOARC Burns; ARS and OSU faculty contribute.

✓ **EOARC Facebook Page**

The EOARC Facebook page (<https://www.facebook.com/EOARC>) is maintained to provide the public current information about the research and outreach programs at EOARC Burns. This is accomplished through the use of posts for upcoming events, recent publications, awards, and collaborations. In addition, brief summaries of individual research and extension projects, in non-scientific format, are provided through the use of photo albums. My responsibilities relate to maintaining and addressing OSU related interests. Currently, the EOARC Facebook page is “followed” by over 1,100 people from 36 countries.

✓ **Email List Serves**

I am the administrator for a number of email lists that pertain to livestock and forage related university and industry professionals. The OSU maintained lists are 1) **COIN** – the California, Oregon, Idaho, and Nevada livestock and forages extension list; 133 members, 2) **LVAGNT** - Oregon Livestock and Forage Agents list; 61 members, and 3) **LMIC** - Livestock Marketing Information Center list for OSU faculty; 44 members. I also maintain a producer/industry list (**Oregon Beef Producer list**; almost 700 members) and send weekly information related to the beef cattle industry. The OSU affiliated lists (COIN, LVAGNT, and LMIC) provide a conduit for two-way discussion of clientele and industry issues across a broad range of extension and industry expertise. This allows for a more diverse and robust discussion and improves our ability to address stakeholder needs. The industry affiliated lists allow me to rapidly contact stakeholders and clientele when necessary for reasons such as important industry related topics, OSU extension programming, public lands issues, and stakeholder input. Feedback on the industry affiliated lists has been very supportive. In addition, since I initiated these lists in 2008, OSU faculty and representatives of the Bureau of Land Management, National Resource Conservation Service, U.S. Forest Service, Farm Service Agency, Oregon Cattlemen's Association, and Harney County Stockgrower's routinely send me information to send out concerning their upcoming programs and important industry topics. The industry affiliated lists are kept confidential and are not shared to protect the email addresses and identity of the members.

✓ **EOARC Publication database**

<https://agsci.oregonstate.edu/eoarc/publications/publications-database>; EOARC Burns did not have a way to rapidly search and access its publications archive. Therefore, I worked with OSU Extension and Experiment Station Communications to successfully design and establish a searchable publication database. This database, that now contains almost over 1,000 publications, allows anyone with access to the internet to rapidly search and read and/or print any research or extension publication produced by OSU or ARS faculty at EOARC Burns. Stakeholder support and feedback has been extremely positive.

Administration

My administrative responsibilities at EOARC Burns and Union revolve around day-to-day decisions on the operation of the stations, including:

- Personnel management including conflict moderation, leave approval, etc.
- Budget development and expenditure approval - including travel
- Contact person for clientele concerns and/or issues
- Oregon State University representative for management decisions of EOARC Burns and Union. EOARC Burns is jointly run and funded by USDA-ARS and the Agricultural Experiment Station of Oregon State University

Scholarship and Creative Activity

Summary of publications

Time Frame	Refereed Articles	Proceedings & Abstracts	Peer-Reviewed Extension Publications & Station/Field Day Reports	Popular Press
Since Hire	81	122	97	39
<i>Prior to Hire</i>	<i>1</i>	<i>12</i>	<i>2</i>	<i>0</i>
TOTAL	82	134	99	39

1. Publications

Google Scholar: <https://scholar.google.com/citations?user=J8skWPcAAAAJ&hl=en>

Research Gate: https://www.researchgate.net/profile/David_Bohnert

Refereed Articles

** - PI of project and lead author of the article; responsible for soliciting funding for project, data analysis, and manuscript preparation.

* - PI of the project and student advised in my lab as lead author of article; responsible for soliciting funding, data analysis, and manuscript edit/preparation.

† - Co-PI of the project; co-PI on funding source, and/or with indispensable participation on experimental design, data analysis, and manuscript preparation.

Note: No superscript indicates I was a collaborating investigator.

Note: Citations in all italics indicate work since hire but prior to promotion (2004).

Note: Highlighted in gray – Article published as graduate student.

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Abstracts (*Role in articles: same as in “Refereed Articles”*)

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7. **Bohnert, D.** 2005. Inexpensive ways to winter your cows. Oregon Beef Producer. November 2005. pp. 12-13.
6. **Bohnert, D.** 2003. *Winter nutrition of spring calving cows and CP supplementation strategies.* ADM Alliance Nutrition – Beef Performance Edge. November 2003. pp. 4-6.
5. *Parsons, C., and Bohnert, D.* 2003. *Health Concerns with Feeding Grass Seed Straw Residues.* Oregon Beef Producer. February 2003. pp. 18-20, 22.
Role in Publication: wrote 50% of article
4. **Bohnert, D. W.** 2002. *Cow nutrition for healthy spring-born calves.* Oregon Beef Producer. October 2002. pp. 22-23.
3. **Bohnert, D. W.**, and T. DelCurto. 2002. *Cow nutrition for rebreeding.* Oregon Beef Producer. April 2002. pp. 14-15.
2. **Bohnert, D. W.** 2001. *Cow Body Condition at Breeding and Reproductive Performance.* Oregon Beef Producer. April 2001. pp. 10-11.
1. **Bohnert, D.**, T. DelCurto, and E. Huston. 2001. *Supplementation strategies for beef cattle consuming low-quality forage.* Oregon Beef Producer. January 2001. pp. 16-22.

2. Professional Meetings, Symposia, and Conferences

In addition to presentation of results from my research program, I have given 15 invited presentations, with 8 of national and 2 of international significance.

Role in Presentations:

** - PI or Co-PI of project and presenter

* - PI or Co-PI of the project; presented by graduate student or Co-PI

Highlighted in gray- presented as a graduate student

Oregon Cattlemen's Association Annual Meeting – Pendleton, OR (November 21-23, 2021)

103. **Virtual Fence Technology as a Tool to Help Manage Cattle and Rangelands
INVITED ORAL PRESENTATION.**

Oregon Agricultural Extension Agent Professional Improvement conference (April 2020)

102. Grazing and Weather Help Explain Differences in Sagebrush-Obligate Songbird Nest Success in Southeast Oregon

Oregon Chapter of the Wildlife Society - Eugene, OR (February 5-7, 2020)

101. Sagebrush-Obligate Songbird Nest Success Relative to Short-Term Moderate Rotational Cattle Grazing

100. Art of Range Podcast (February 2020)

** Range Cattle Nutrition, Body Condition Score, & Calf Performance

(<https://soundcloud.com/art-of-range/aor-032-davidbohnert>)

INVITED PODCAST.

Pacific Northwest Animal Nutrition Conference – Boise, ID (January 13-14, 2020)

99. ** Management considerations for beef cows with emphasis on offspring performance and cow nutrient requirements

INVITED ORAL PRESENTATION.

Southern Section of the American Society of Animal Science – Oklahoma City, OK (January 26-29, 2019)

98. * Altering the time of vaccination against respiratory pathogens enhanced antibody response and health of feedlot cattle

American Society of Animal Science – Austin, TX (July 8-12, 2019)

97. * Impacts of post-weaning growth rate on reproductive development and maternal productivity of replacement beef heifers

96. * Supplementing Ca salts of soybean oil to enhance carcass quality of beef cattle via metabolic imprinting events

The Wildlife Society - Reno, NV (Sept. 29-Oct 3, 2019)

95. Thinking Beyond the Sage-Grouse Umbrella: Short Term Effects of Moderate Rotational Cattle Grazing on Sagebrush-Obligate Songbird Reproductive Success

Oregon Chapter of the Wildlife Society - Bend, OR (February 27 – March 1, 2019)

94. Short Term Effects of Moderate Cattle Grazing on Sagebrush-Obligate Songbirds

93. Contemporary grazing and sagebrush-obligate songbird reproductive success

Society for Range Management Annual Meeting- Minneapolis, MN (February 10-13, 2019)

92. Grazing Season of Use Effects on Sagebrush-Obligate Avian Habitat

Joint Meeting of Oregon Chapter of The Wildlife Society (ORTWS) and WATWS, SNVB and NW PARC (February 2018)

91. Grazing Season of Use Effects on Sagebrush Obligate Avian Habitat

Oregon Agricultural Extension Association (April 2018)

90. Grazing Season of Use Effects on Sagebrush Obligate Avian Habitat

Western Section of the American Society of Animal Science – Bend, OR (June 19-21, 2018)

89. * Impacts of stocking density on development and puberty attainment of replacement beef heifers
88. * Supplementing calcium salts of soybean oil after artificial insemination increases pregnancy success in *Bos taurus* beef cows
87. * Supplementing Micro-Aid to optimize health and performance of receiving cattle
86. * Impact of twenty-four hour feed or water, or both, deprivation on feed intake, metabolic, and inflammatory response in beef heifers

Southern Section of the American Society of Animal Science – Fort Worth, TX (February 3-6, 2018)

89. * Performance, Health, and Physiological Responses of Newly Weaned Cattle Supplemented with Feed-Grade Antibiotics or Alternative Feed Additives during Feedlot Receiving
88. * Supplementation with Ca Salts of Soybean Oil Increases Pregnancy Success in *Bos taurus* Beef Cows
87. * Physiologic and Innate Immunity Responses of Beef Heifers Supplemented with an Immunomodulatory Feed Ingredient during a Lipopolysaccharide Challenge

Webinar Presentation to Forest Service Range Professionals (January 23, 2018)

86. * Testing the Compatibility of Innovative Cattle Grazing Practices with Salmonid Restoration: Meadow Creek Experiment, Starkey Experimental Forest and Range, Northeast Oregon

89. Pacific Northwest Animal Nutrition Conference – Boise, ID (January 13-14, 2020)

** Management considerations for beef cows with emphasis on offspring performance and cow nutrient requirements

INVITED ORAL PRESENTATION.

Western Section of the American Society of Animal Science – Bend, OR (June 19-21, 2018)

88. * Supplementing calcium salts of soybean oil after artificial insemination increases pregnancy success in *Bos taurus* beef cows
87. * Supplementing Micro-Aid to optimize health and performance of receiving cattle
86. * Impact of twenty-four hour feed or water, or both, deprivation on feed intake, metabolic, and inflammatory response in beef heifers

Western Section of the American Society of Animal Science – Fargo, ND (June 20-23, 2017)

85. * Supplementing a yeast-derived product to enhance productive and health responses of feeder steers
84. * Effects of intravenous lipopolysaccharide administration on feed intake, ruminal forage degradability and liquid parameters, and physiological responses in beef cattle
83. * Effects of rumen-protected EFA supplementation to late-gestating beef cows on performance and physiological responses of the offspring
82. * Impacts of stocking density on growth and puberty attainment of replacement beef heifers

5th Grazing Livestock Nutrition Conference, Park City, UT (July 17-19, 2016)

81. **Supplementation and Sustainable Grazing Systems
INVITED ORAL PRESENTATION.

American Society of Animal Science Annual Meeting, Salt Lake City, UT (July 19-23, 2016)

80. * Effects of rumen-protected PUFA supplementation to late-gestating beef cows on performance and physiological responses of the offspring
79. * Effects of post-AI supplementation with Ca salts of soybean oil on ovarian and pregnancy development in Bos indicus beef cows
78. * Effects of organic or inorganic Co, Cu, Mn, and Zn supplementation to weaned calves during preconditioning on their productive and health responses

Western Section of the American Society of Animal Science – Salt Lake City, UT (July 19-23, 2016)

77. ** Influence of supplement type and monensin addition on utilization of low-quality, cool-season forage by beef cattle
76. * Impacts of Stocking Density on Growth and Puberty Attainment of Replacement Beef Heifers
75. * Altering the Time of Vaccination Against Respiratory Pathogens to Enhance Vaccine Efficacy, Health, and Performance of Feedlot Cattle

American Society of Animal Science Annual Meeting, Orlando, FL (July 12-16, 2015)

74. * Effect of cow BCS during gestation on performance variables of the offspring. Poster presentation.
73. * Plasma leptin concentrations are increased during a vaccine-induced acute-phase response in beef cattle. Oral presentation.

Western Section of the American Society of Animal Science – Ruidoso, NM (June 22-26, 2015)

72. * Meloxicam as an alternative to alleviate inflammatory and acute-phase reactions in beef cattle upon lipopolysaccharide administration or vaccination. Oral Presentation.
71. * Effects of organic or inorganic Co, Cu, Mn, and Zn supplementation to late-gestating beef cows on productive and physiological responses of the offspring. Oral Presentation.

Center for Grassland Studies, University of Nebraska, Lincoln, NE (Oct. 6, 2014)

70. **Nutritional Management Strategies for Efficient Beef Production in Rangeland Environments. 2014 Leu Distinguished Lecturer.
INVITED ORAL PRESENTATION.

University of Nebraska, Lincoln, Animal Science Department Seminar (Oct. 6, 2014)

69. **Nitrogen Use by Ruminants Consuming Low-Quality Forage.
INVITED ORAL PRESENTATION.

American Society of Animal Science Annual Meeting, Kansas City, MO (July 20-24, 2014)

68. * Effects of protein supplementation frequency on metabolic responses associated with reproduction of beef cows. Oral presentation.
67. * A vaccine-induced acute-phase reaction increases plasma leptin concentrations in beef cattle. Oral presentation.

Western Section of the American Society of Animal Science – San Angelo, TX (June 25-27, 2014)

66. **Supplementation Strategies in Arid & Semi-Arid Environments. *Beef Symposium.*
INVITED ORAL PRESENTATION.

65. **Influence of supplement composition on utilization of low-quality cool-season forages by beef cattle. Oral presentation.

VIII Jornada NESPRO I Simposio Internacional Sobre Sistemas de Producao de Bovinos de Corte. Porto Alegre, RS, Brazil (September 24-26, 2013)

64. **Supplementation of beef cattle on pasture.
INVITED ORAL PRESENTATION.

American Society of Animal Science National Meeting – Indianapolis, IN (July 8-12, 2013)

63. * Effects of bovine somatotropin administration on growth, physiological, and reproductive responses of replacement beef heifers. Oral presentation.
62. * Incorporation of sexed semen into reproductive management of range cow-calf operations. Poster presentation.

Western Section of the American Society of Animal Science – Bozeman, MT (June 19-21, 2013)

61. *Protein supplementation of low-quality cool-season and warm-season forages. Oral presentation.
60. * Rest stops during road transport: Impacts on performance and acute-phase protein responses of feeder cattle. Oral presentation.
59. * Effects of flunixin meglumine administration on acute-phase and performance responses of transported feeder cattle. Oral presentation.

University of Idaho Inservice Training for Livestock Agents. Moscow, ID (April 9-10, 2013)

58. **Assessing Mineral Status in Ruminants.
INVITED ORAL PRESENTATION.

International Congress on Animal Reproduction – Vancouver, BC (July 29 to August 2, 2012)

57. * Incorporation of sexed semen into Reproductive management of range cow-calf operations. Poster presentation.

American Society of Animal Science/Western Section of the American Society of Animal Science Joint Meeting. Phoenix, AZ (July 16-18, 2012)

56. **Supplementation Strategies in Arid & Semi-Arid Environments. Beef Production in Arid Environments Symposium.
INVITED ORAL PRESENTATION.

55. **Protein Supplementation of Low Quality Forage: Effects of Amount and Frequency on Cow Performance and Intake and Nutrient Digestibility by Steers. Poster presentation.
54. * Effects of acclimation to human handling on temperament, physiological responses, and performance of beef steers during feedlot receiving. Oral presentation.
53. * Effects of 24-h transport or 24-h nutrient restriction on acute-phase and performance responses of feeder cattle. Oral presentation.
52. * Plasma progesterone concentration in beef heifers receiving exogenous glucose, insulin, or bovine somatotropin. Oral presentation.

American Society of Animal Science National Meeting – New Orleans, LA (July 10-14, 2011)

- 51. * Effects of acclimation to handling on performance, reproductive, and physiological responses of *Bos taurus* beef heifers. Oral presentation.
- 50. * Effects of temperament on reproductive and physiological responses of beef cows. Oral presentation.
- 49. * Feed and water restriction elicits an acute-phase protein response in beef cattle. Poster presentation.
- 48. * Bovine acute-phase response following different doses of corticotrophin-releasing hormone (CRH) challenge. Poster presentation.

Western Section of the American Society of Animal Science – Miles City, MT (June 21-24, 2011)

- 47. **A procedure to reduce collected sample size for nutrient analysis of hay cores. Poster presentation.
- 46. * Camelina meal supplementation to beef cattle: I. Effects on performance, DMI, and acute-phase protein response of feeder steers following transport. Oral presentation.
- 45. * Camelina meal supplementation to beef cattle: II. Effects on DMI, in situ forage digestibility, and plasma cholecystokinin concentrations. Poster presentation.
- 44. * Camelina meal supplementation to beef cattle: III. Effects on acute-phase and thyroid responses. Oral presentation.
- 43. * Effects of temperament on performance and carcass traits of range-originated feeder calves. Poster presentation.

Pacific Northwest Animal Nutrition Conference. Portland, OR (October 4 – 5, 2011)

- 42. ** Nutritional Considerations of Grass Seed Straw for Beef Cattle.

INVITED ORAL PRESENTATION.

Animal & Rangeland Sciences Seminar, Oregon State University, Corvallis (April 25, 2011)

- 41. ** Gestational Nutrition and Management of Beef Cows.

INVITED ORAL PRESENTATION.

8th International Ruminant Reproduction Symposium – Anchorage, AK (September 3-7, 2010)

- 40. * Effects of acclimation to handling on performance, reproductive, and physiological responses of replacement beef heifers. Poster presentation.
- 39. * Effects of temperament on reproductive and physiological responses of beef cows. Poster presentation.

American Society of Animal Science, Denver, CO (July 11-15, 2010)

- 38. ** Late Gestation Supplementation of Beef Cows: Effects on Cow and Calf Performance. Oral presentation.
- 37. * Effects of polyunsaturated fatty acid supplementation during preconditioning on performance and acute-phase response of transported beef steers. Oral presentation.
- 36. * Effects of polyunsaturated fatty acid supplementation (PUFA) on forage intake and digestibility of beef cows. Poster presentation.
- 35. * Bovine acute-phase response following corticotrophin-releasing hormone (CRH) challenge. Poster presentation.

OSU Livestock Agents In-Service Training, Burns, OR (May 28, 2010)

34. ** Crude Protein Supplementation of Low Quality Forages.
INVITED ORAL PRESENTATION.
- Society for Rangeland Management Annual Meeting, Louisville, KY (Jan. 26-31, 2008)*
33. * Rangeland nutritional patterns and cattle distribution. Oral presentation.
- C.O.I.N. (California, Oregon, Idaho, & Nevada) Extension Agents Tour. Caldwell, ID (May 13-14, 2008)*
32. Considerations for Protein Supplementation of Low Quality Forages.
INVITED ORAL PRESENTATION.
- Western Section of the American Society of Animal Science – Moscow, ID (June 19-22, 2007)*
31. ** Protein supplementation of ruminants consuming low-quality cool- or warm-season forage: Differences in intake and digestibility. Oral presentation.
30. * The ability of a yeast derived cell wall preparation to minimize toxic effects of high-alkaloid tall fescue straw in beef cattle. Oral presentation.
- Pacific Northwest Nutrition Conference - Vancouver, B.C., Canada (Oct. 3-5, 2006)*
29. ** Management Strategies for Use of High-Alkaloid Grass Seed Straw.
INVITED ORAL PRESENTATION.
- Western Section of the American Society of Animal Science – Logan, UT (June 21-22, 2006)*
28. * Effects of early weaning on cow performance, grazing behavior, and winter feed costs in the Intermountain West. Oral presentation.
27. ** Russian knapweed as a protein supplement for beef cows consuming low-quality forage. Poster presentation.
- Oregon Cattleman's Association – Redmond, OR (Nov. 3-5, 2005)*
26. ** Premises Identification – The First Step toward a National Animal Identification System. Poster presentation.
- Western Section of the American Society of Animal Science – Las Cruces, NM (June 22-24, 2005)*
25. ** A Survey of Cow-Calf Producers in Oregon and Nevada – Production Practices. Oral presentation.
24. ** The Effects of Early Weaning on Cow Performance and Grazing Behavior in the Intermountain West. Poster presentation.
- Pacific Northwest Forage Workers Conference, Prineville, OR (October 11-14, 2004)*
23. ** Evaluation of Perennial Ryegrass Straw as a Forage Source for Ruminants. Poster presentation.
- Society for Range Management – Salt Lake City, UT (January 24-30, 2004)*
22. * The effect of seeding and seed bed preparation methods on establishment of forage kochia (*Kochia prostrata* [L.] Shad.). Poster presentation.
21. * Do spatial nutritional patterns at landscape levels affect beef cattle distribution? Oral presentation.

American Society of Animal Science/American Society of Dairy Science National Meeting – Phoenix, AZ (June 22 to 26, 2003)

20. ** Comparison of urea and soybean meal as nitrogen supplements to cool-season, low-quality forage: I. Daily and alternate day supplementation effects on digestion and ruminal fermentation in steers. Oral presentation.
19. * Comparison of urea and soybean meal as nitrogen supplements to cool-season, low-quality forage: II. Daily and alternate day supplementation effects on efficiency of nitrogen use in lambs. Oral presentation.
18. * Influence of Protein Supplementation Frequency on Cows Consuming Low-Quality Forage: Performance, Grazing Behavior, and Variation in Supplement Intake. Oral presentation.
17. * Evaluation of Perennial Ryegrass Straw as a Forage Source for Ruminants. Oral presentation.
16. * Effect of protein supplementation of warm versus cool season forages on intake, digestibility, and ruminal fill in beef steers. Oral presentation.
15. * Complimentary Forages and Grazing Systems for Beef Cattle Production on Arid Rangelands in the Western US. *Beef Symposium*.
INVITED ORAL PRESENTATION/co-author.

Society for Range Management – Casper, WY (February 1-6, 2003)

14. * The effect of calender date on in situ NDF and CP degradation characteristics of forage kochia (*Kochia prostrata*). Poster presentation.

Western Section of the American Society of Animal Science – Ft. Collins, CO (June 19-22, 2002)

12. ** Comparison of urea and biuret as nitrogen supplements to low-quality forage: Daily and alternate day supplementation effects on digestion and ruminal fermentation in steers. Oral presentation.
11. * Comparison of urea and biuret as nitrogen supplements to low-quality forage: Daily and alternate day supplementation effects on efficiency of nitrogen use in lambs. Oral presentation.

Society for Range Management – Kansas City, MO (February 13-20, 2002)

10. * Estimated grazing time of cows fitted with GPS collars: 10 and 20 minute sampling intervals. Oral presentation.
9. * Effects of previous grazing in pastures on livestock distribution and nutrition. Oral presentation.

Western Section of the American Society of Animal Science – Bozeman, MT (June 20-22, 2001)

8. ** Influence of rumen protein degradability and supplementation frequency on steers consuming low-quality forage: Ruminal fermentation and site of digestion. Oral presentation.
7. ** Influence of rumen protein degradability and supplementation frequency on performance and nitrogen use in ruminants consuming low-quality forage: Cow performance and efficiency of nitrogen use in wethers. Oral presentation.
6. * Beet pulp supplementation of heifers grazing native flood meadow: Performance and ruminal fermentation. Poster presentation.

Midwestern Section of the American Society of Animal Science – Des Moines, IA (March 16-18, 1998)

5. Efficacy of laidlomycin propionate in low-protein diets fed to growing beef steers. Poster presentation.

American Society of Animal Science – Nashville, TN (July 29 – August 1, 1997)

4. Splanchnic metabolite flux and nitrogen retention in lambs fed diets differing in supplemental nitrogen source. Poster presentation.

Midwestern Section of the American Society of Animal Science – Des Moines, IA (March 17-19, 1997)

3. Small intestinal amino acid flow and disappearance in steers supplemented with increasing levels of poultry byproduct meal. Poster presentation.

American Society of Animal Science – Rapid City, SD (July 24-26, 1996)

2. Poultry byproduct meal as a source of supplemental nitrogen for ruminants: I. Effects on growth, gain efficiency, and protein efficiency. Oral presentation.

1. Poultry byproduct meal as a source of supplemental nitrogen for ruminants: II. Flow and disappearance of nutrients in steers. Oral presentation.

3. Grant and Contract Support

To date, as PI or Co-PI, I have submitted 79 proposals totaling \$7,970,527 to private and public agencies, with 51 funded for a total of \$2,902,241. In addition, I have obtained \$229,000 in funds as a collaborator in support my programs. I have also received \$194,383 in Gifts and product support. Therefore, external support for my programs have totaled \$3,325,624.

Funding Source	Role	Date	Amount Requested	Amount Funded
79) Oregon Agricultural Experiment Station	Co-PI: J. Ranches (PI), D. Bohnert	2022-2023	\$22,082	22,996
<i>Title: Effects of electrolyte solution supplementation on health parameters and performance of beef calves post-weaning</i>				
78) USDA-FRI	Co-PI: J. Ranches (PI), D. Bohnert, N. DiLorenzo, R. O'Connor, M. Silveira	2021-2026	\$998,744	Not Funded
<i>Title: This project - From Coast to Coast: The impacts of beef cattle production on greenhouse gases emissions in Florida and Oregon</i>				
77) USDA-ARS	PI: D. Bohnert, J. Ranches, and B. Endress	2021-2025	\$598,824	\$598,824
<i>Title: Precision Livestock Management Systems for Western Rangelands</i>				

76) Sustainable Agriculture Research & Education	Co-PI: J. Ranches, J. Cruickshank, S. Ates, M. Bionaz, D. Bohnert , J. Callaghan, C. Callaghan, and J. B. Collins	2022-2025	\$349,500	Not Funded
<i>Title: Effects on performance, health, and behavior of calves fed with hemp spent biomass</i>				
75) USDA Forest Service	PI: D. W. Bohnert	2021-2024	\$30,000	\$30,000
<i>Title: Implementing Sustainable Meadow Creek Cattle Grazing Practices through Active Herd Management</i>				
74) USDA NIFA: Beginning Farmer & Rancher Development Program (BFRDP)	Co-PI: J. Ranches, D. Bohnert , J. Cruickshank, and C. Estill	2021-2024	\$707,463	Not Funded
<i>Title: The Calving School: a hybrid educational program in reproductive management</i>				
73) USDA NIFA: Foundational and Applied Science Program – Sustainable Agroecosystems: Health, Functions, Processes and Management	Co-PI: S. J. DeBano, D. E. Wooster, J. Averett, B. Endress, and D. Bohnert	2021-2024	\$297,878	Not Funded
<i>Title: Sustainable Livestock Grazing on Public Lands: Maximizing Ecosystem Services and Producer Success</i>				
72) USDA-ARS	PI: D. W. Bohnert Co-PI: D. Johnson	2021-2023	\$200,000	\$200,000
<i>Title: Enhancing Rangeland Science Diversity in the Northern Great Basin</i>				
71) Women's Giving Circle	Co-PI: J. Ranches, D. Bohnert , D. Johnson, V. Schroeder	2020-2021	\$9,630	\$7,630
<i>Title: RancHER. A field day for women in agriculture</i>				
70) Agricultural Research Foundation	Co-PI: I. McGregor, S. Filley, S. Ates, and D. Bohnert	2020-2022	\$15,000	Not Funded
<i>Title: Comparison of sugar and starch based energy sources on their effect on in-vitro digestibility of low-quality forages and nitrogen utilization</i>				
69) USDA NIFA: Foundational and Applied Science Program – Sustainable Agroecosystems: Health, Functions, Processes and Management	Co-PI: M.M. Rowland, S. Chanley, B. Endress, S. J. DeBano, D. E. Wooster, D. Bohnert , and M. Wisdom	2020-2024	\$500,000	Not Funded

Title: Sustainable Livestock Grazing on Public Lands: Maximizing Ecosystem Services and Producer Success

68) US Dept. of Interior; BLM	Co-PI: V. Schroeder, D. Johnson, and D. Bohnert	2019-2021	\$48,094	\$48,094
<i>Title: Grazing season of use effects on sagebrush-obligate avian habitat</i>				
67) USDA-ARS	PI: D. W. Bohnert Co-PI: D. Johnson	2019-2022	\$900,000	\$900,000
<i>Title: Enhancing Rangeland Science Diversity in the Northern Great Basin</i>				
66) USDA Forest Service	PI: D. W. Bohnert	2018-2019	\$62,496	\$62,496
<i>Title: Implementation Meadow Creek Cattle Grazing Practices to Evaluate Compatibility with Recovery of Threatened Salmonids</i>				
65) Oregon Beef Council	PI: D. W. Bohnert	2018-2019	\$20,000	\$8,000
<i>Title: Interspace/Undercanopy Foraging Patterns of Horses in Sagebrush Habitats: Implications for Sage-Grouse</i>				
64) USDA-ARS	PI: D. W. Bohnert	2017-2020	\$224,000	\$224,000
<i>Title: Horse Impacts on Sage-Grouse Habitat Structure and Composition on Grazed Rangelands</i>				
63) U.S. Fish & Wildlife Service	Co-PI; D. D. Johnson, V. Schroeder, D. Bohnert , J. Dinkins, and C. Boyd	2017	\$35,603	\$35,603
<i>Title: Grazing Season of Use Effects on Sagebrush Obligate Avian Habitat</i>				
62) National Fish & Wildlife Foundation	Co-PI; B. A. Endress, D. W. Bohnert , B. Roper, T. Sedell, & M. Wisdom	2017-2018	\$100,000	--
<i>Title: Integration of Novel Grazing Practices with Salmonid Restoration on Public Range Allotments</i>				
61) Oregon Beef Council	Co-PI; B. A. Endress & D. W. Bohnert	2017-2018	\$10,000	\$10,000
<i>Title: Evaluation of Stubble Height Relationship to Riparian Health and Function</i>				
60) Oregon Beef Council	Co-PI; R. F. Cooke & D. W. Bohnert	2017-2018	\$15,000	\$15,000
<i>Title: Impacts of Estrus Expression & Intensity during an Estrus Synchronization and Artificial Insemination Protocol on Parameters Associated with Fertility and Pregnancy establishment in Beef Cow</i>				
59) Oregon Beef Council	Co-PI; R. F. Cooke & D. W. Bohnert	2017-2018	\$13,500	\$13,500
<i>Title: Feeding Essential Fatty Acids to Late-Gestating Cows to Optimize Performance & Health Responses of the Offspring</i>				

58) USDA-NIFA Animal Health and Disease	Co-PI; R. F. Cooke & D. W. Bohnert	2017-2018	\$33,704	\$33,704
<i>Title: Anticipating vaccination against respiratory pathogens to enhance health and performance of feeder cattle</i>				
57) Agricultural Research Foundation	Co-PI; R. F. Cooke & D. W. Bohnert	2017-2019	\$12,500	\$12,500
<i>Title: Feeding essential fatty acids to late-gestating cows to optimize performance and health responses of the offspring</i>				
56) Oregon Department of Fish & Wildlife	PI: A. Svejcar, Oregon State University; Collaborator: D. W. Bohnert	2016-2017	\$161,925	\$161,925 (\$16,000 Administered by D. W. Bohnert)
<i>Title: Seed Delivery Research</i>				
55) Agricultural Research Foundation	Co-PI; R. F. Cooke & D. W. Bohnert	2016-2017	\$12,500	\$12,500
<i>Title: Impacts of Post-Weaning Growth Rate on Reproductive Development and Maternal Ability (milk production) of Replacement Beef Heifers</i>				
54) Grande Ronde Model Watershed	Co-PI; B. A. Endress, D. W. Bohnert , T. Sedell, and M. Wisdom	2016-2017	\$15,500	\$15,500
<i>Title: Monitoring Restoration: Meadow Creek</i>				
53) USDA-NIFA Animal Health and Disease	Co-PI; R. F. Cooke & D. W. Bohnert	2015-2016	\$23,928	\$23,928
<i>Title: Altering the time of vaccination against respiratory pathogens to enhance vaccine efficacy, health, and performance of feeder cattle</i>				
52) Agricultural Research Foundation	Co-PI; R. F. Cooke & D. W. Bohnert	2015-2016	\$12,500	\$12,500
<i>Title: Impacts of Stocking Density on Welfare & Productivity of Replacement Beef Heifers</i>				
51) Agricultural Research Foundation	Co-PI; R. F. Cooke & D. W. Bohnert	2015-2016	\$12,500	\$12,500
<i>Title: Effects of Omega-3 and Omega-6 Fatty Acid Supplementation to Late-Gestation Cows on Performance & Health Responses of the Subsequent Offspring</i>				
50) Oregon Beef Council	Co-PI; R. F. Cooke & D. W. Bohnert	2015-2016	\$35,000	\$35,000
<i>Title: Impacts of wolf predation on stress-related physiological and psychological responses in beef cattle</i>				
49) USDA-NIFA Animal Health and Disease	Co-PI; R. F. Cooke & D. W. Bohnert	2014-2015	\$30,000	\$30,000

Title: Meloxicam as an alternative to alleviate inflammatory and acute phase reactions in beef cattle

48) Oregon Beef Council	Co-PI; D. W. Bohnert & R. F. Cooke	2014-2015	\$23,600	\$23,600
<i>Title: Influence of Supplement Type and Monensin Addition on Utilization of Low-Quality, Cool-Season Forage by Beef Cattle</i>				
47) Agricultural Research Foundation	Co-PI; R. F. Cooke & D. W. Bohnert	2014-2015	\$12,500	\$12,500
<i>Title: Metabolic imprinting: impact on growth & reproductive development of beef heifers</i>				
46) NRCS-Conservation Improvement Grant	PI: G. Fuller, TNC; Collaborator: D. W. Bohnert	2013-2014	\$324,851	\$324,851 (\$213,000 Administered by D. W. Bohnert)
<i>Title: Sage-Grouse Conservation: Linking practices to habitat metrics</i>				
45) Oregon Beef Council	Co-PI; R. F. Cooke & D. W. Bohnert	2013-2014	\$61,500	\$61,500
<i>Title: Impacts of cow nutritional management during gestation on future performance of the offspring</i>				
44) USDA-NIFA Animal Health and Disease	Co-PI; R. F. Cooke & D. W. Bohnert	2013-2014	\$20,280	\$17,238
<i>Title: Use of Meloxicam to alleviate the transport-elicited acute-phase reaction in feeder cattle</i>				
43) Pfizer Animal Health	Co-PI; R. F. Cooke & D. W. Bohnert	2013-2014	\$5,000	\$5,000
<i>Title: Metabolic imprinting: impact on growth & reproductive development of beef heifers</i>				
42) Oregon Beef Council	Co-PI; D. W. Bohnert & R. F. Cooke	2012-2013	\$23,700	\$23,700
<i>Title: Influence of Supplement Composition on Utilization of Low-Quality Cool-Season Forage</i>				
41) Oregon Beef Council	Co-PI; R. F. Cooke & D. W. Bohnert	2012-2013	\$20,500	\$20,500
<i>Title: Comparison of Ivermectin Plus® and a Generic Anthelmintic on Gastrointestinal Parasite Control and Performance of Beef Cattle</i>				
40) USDA-NIFA Animal Health and Disease	Co-PI; R. F. Cooke & D. W. Bohnert	2012-2013	\$18,180	\$18,180
<i>Title: Alternatives to prevent acute-phase reaction in transported beef steers</i>				
39) Agricultural Research Foundation	Co-PI; D. W. Bohnert & R. F. Cooke	2012-2013	\$12,500	--
<i>Title: Comparison of the effects of protein supplementation of cool and warm season low-quality forages consumed by beef cattle: differences in intake and digestibility</i>				

38) Agricultural Research Foundation	Co-PI; D. W. Bohnert & R. F. Cooke	2012-2013	\$12,500	\$12,500
<i>Title: Comparison of energy or protein supplementation to beef heifers</i>				
37) Agricultural Research Foundation	Co-PI; R. F. Cooke & D. W. Bohnert	2012-2013	\$12,500	--
<i>Title: Effects of acclimation to human handling on temperament, feedlot performance, and carcass quality of beef steers</i>				
36) NIFA-AFRI: Foundational Program	Co-PI; R. F. Cooke & D. W. Bohnert	2012-2015	\$494,956	--
<i>Title: Temperament and Reproduction in Cattle</i>				
35) USDA-NIFA Animal Health and Disease	Co-PI; R. F. Cooke & D. W. Bohnert	2011-2012	\$15,616	\$15,616
<i>Title: Transport, nutrient restriction, and effects on health and performance of cattle</i>				
34) Oregon Beef Council	Co-PI; D. W. Bohnert & R. F. Cooke	2011-2012	\$17,250	--
<i>Title: Maximizing Net Income from Culled Beef Cows</i>				
33) Oregon Beef Council	Co-PI; R. F. Cooke & D. W. Bohnert	2011-2012	\$11,960	\$11,960
<i>Title: Effects of camelina meal supplementation on performance and health responses of beef cattle</i>				
32) National Institutes of Health	Co-PI; R. F. Cooke, D. W. Bohnert , G. Bobe, & G. Cherian	2011-2015	\$1,186,111	--
<i>Title: Stress-induced immune responses and their consequences to livestock health</i>				
31) Agricultural Research Foundation	Co-PI; R. F. Cooke & D. W. Bohnert	2011-2012	\$12,500	--
<i>Title: Effects of disposition and acclimation to human handling on feedlot performance and carcass characteristics of feeder steers</i>				
30) Grass Seed Cropping Systems for Sustainable Agriculture	Co-PI; R. F. Cooke & D. W. Bohnert	2011-2012	\$33,309	--
<i>Title: Strategic feeding of ryegrass by-products to beef cattle to promote agricultural production efficiency, sustainability, and environmental stewardship</i>				
29) Agricultural Research Foundation	Co-PI; R. F. Cooke & D. W. Bohnert	2011-2012	\$12,500	\$12,500
<i>Title: Effects of camelina meal supplementation on performance and health responses of beef cattle</i>				
28) USDA-NIFA Animal Health and Disease	Co-PI; R. F. Cooke & D. W. Bohnert	2010-2011	\$22,000	\$22,000
<i>Title: Bovine acute-phase response following corticotrophin-release hormone challenge</i>				

27) Oregon Beef Council	Co-PI; D. W. Bohnert & R. F. Cooke	2010-2011	\$23,700	\$23,700
<i>Title: Protein supplementation of low-quality forage: Effects of amount and frequency of protein supplementation on ruminant performance and nutrient utilization</i>				
26) Oregon Beef Council	Co-PI; R. F. Cooke & D. W. Bohnert	2010-2011	\$25,000	\$12,500
<i>Title: Effects of disposition and acclimation to human handling on feedlot performance and carcass characteristics of feeder steers</i>				
25) Oregon Beef Council	Co-PI; R. F. Cooke & D. W. Bohnert	2010-2011	\$32,500	\$32,500
<i>Title: Evaluation of conflict stressors on spatial behavior and grazing budgets of cattle</i>				
24) Agricultural Research Foundation	Co-PI; D. W. Bohnert & R. F. Cooke	2010-2011	\$12,500	\$9,680
<i>Title: Protein supplementation of low-quality forage: Effects of amount and frequency of protein supplementation on ruminant performance and nutrient utilization</i>				
23) Agricultural Research Foundation	Co-PI; R. F. Cooke & D. W. Bohnert	2010-2011	\$12,500	--
<i>Title: Effects of Flunixin Meglumine treatment on health measures and performance of feedlot steers</i>				
22) Agricultural Research Foundation	Co-PI; R. F. Cooke & D. W. Bohnert	2010-2011	\$12,500	--
<i>Title: Effects of bovine somatotropin treatment on performance, reproductive, and physiological responses of replacement beef heifers</i>				
21) Agricultural Research Foundation	Co-PI; R. F. Cooke & D. W. Bohnert	2010-2011	\$12,500	\$12,500
<i>Title: Effects of energy supplementation frequency and forage quality on performance, reproductive, and metabolic responses of replacement beef heifers</i>				
20) Oregon Beef Council	Co-PI; R. F. Cooke & D. W. Bohnert	2009-2010	\$10,000	\$10,000
<i>Title: Effects of acclimation to handling on performance and reproductive development of replacement heifers</i>				
19) Oregon Beef Council	Co-PI; R. F. Cooke & D. W. Bohnert	2009-2010	\$10,000	\$10,000
<i>Title: Effects of disposition on reproductive performance of brood cows</i>				
18) USDA-NIFA Animal Health and Disease	Co-PI; R. F. Cooke & D. W. Bohnert	2009-2010	\$27,850	\$3,845
<i>Title: Bovine acute-phase response following corticotrophin-releasing Hormone Challenge</i>				

17) Agriculture Research Foundation	Co-PI; D. D. Johnson & D. W. Bohnert	2009-2010	\$12,500	--
<i>Title: Influence of varying levels of growing and dormant season defoliation on the persistence and productivity of crested wheatgrass (Agropyron cristatum L.)</i>				
16) Oregon Beef Council	PI; D. W. Bohnert	2008-2009	\$10,000	\$10,000
<i>Title: Late Gestation Protein Supplementation of Beef Cows: Effects on Calf Health, Performance, and Carcass Traits</i>				
15) Oregon Beef Council	PI; D. W. Bohnert	2008-2009	\$10,000	--
<i>Title: Oregon Cattlemen's Tour</i>				
14) USDA-NIFA Animal Health and Disease	PI; D. W. Bohnert	2007-2008	\$27,607	\$22,120
<i>Title: The ability of a yeast-derived cell wall preparation to minimize toxic effects of high-alkaloid tall fescue straw in beef cattle</i>				
13) Grass Seed Cropping Systems for Sustainable Agriculture	PI; D. W. Bohnert	2006-2007	\$34,808	--
<i>Title: The Ability of a Modified Glucomannan, MTB-100™, to Minimize Toxic Effects of High-Alkaloid Tall Fescue Grass Seed Straw</i>				
12) Agriculture Research Foundation	PI; D. W. Bohnert	2005-2007	\$10,000	--
<i>Title: The Ability of a Modified Glucomannan, FEB-200™, to Minimize Toxic Effects of High-Alkaloid Tall Fescue Grass Seed Straw</i>				
11) Grass Seed Cropping Systems for Sustainable Agriculture	PI; D. W. Bohnert	2005-2006	\$33,963	--
<i>Title: The Ability of a Modified Glucomannan, FEB-200™, to Minimize Toxic Effects of High-Alkaloid Tall Fescue Grass Seed Straw</i>				
10) Agriculture Research Foundation	PI; D. W. Bohnert	2004-2005	\$10,000	--
<i>Title: The Effects of Early Weaning on Cow Performance and Grazing Behavior in the intermountain West</i>				
9) Burns Paiute Tribe	Co-PI; D.W. Bohnert & L. Gow	2003	\$18,794	\$18,794
<i>Title: Feasibility Study and Business Plan for the Burns Paiute Tribe's Cattle Operations</i>				
8) USDA-NIFA Animal Health and Disease	PI; D. W. Bohnert	2002-2003	\$118,294	\$15,000
<i>Title: Evaluation of Endophyte Infected Tall Fescue Straw as a Forage Source for Ruminants</i>				
7) Agriculture Research Foundation	PI; D. W. Bohnert	2002-2003	\$4,980	\$4,980
<i>Title: Nutritional Evaluation of Forage Kochia – Development of a Forage Calendar</i>				

6) Grass Seed Cropping Systems for Sustainable Agriculture <i>Title: Nutritional Evaluation of Perennial Ryegrass Straw as a Forage Source for Ruminants</i>	Co-PI; D. W. Bohnert & C. Ackerman	2002-2003	\$20,505	\$20,505
5) WSARE Competitive Grants <i>Title: Nutritional Evaluation of Forage Kochia</i>	PI; D. W. Bohnert	2002-2004	\$26,276	--
4) Agriculture Research Foundation <i>Title: Comparison of Urea and Biuret as Nitrogen Supplements to Low-Quality Forage: Daily and Alternate Day Supplementation Effects on Ruminant Performance and Nutrient Utilization</i>	PI; D. W. Bohnert	2001-2002	\$7,500	\$7,500
3) Grass Seed Cropping Systems for Sustainable Agriculture <i>Title: Nutritional Evaluation of Perennial Ryegrass Straw as a Forage Source for Ruminants</i>	Co-PI; D. W. Bohnert & C. Ackerman	2001-2003	\$34,260	\$34,260
2) Agriculture Research Foundation <i>Title: Beet Pulp Supplementation of Beef Heifers Grazing Native Flood Meadows: Performance, Intake, Digestibility, and Ruminal Fermentation</i>	PI; D. W. Bohnert	2000-2001	\$7,500	--
1) Agriculture Research Foundation <i>Title: Protein Supplementation of Low-Quality Forage: Effects of Protein Degradability and Frequency of Supplementation on Ruminant Performance and Nutrient Utilization</i>	PI; D. W. Bohnert	1999-2000	\$7,500	\$7,500

Unrestricted Gifts and In-Kind Support

17) Performix Nutrition <i>Title: Implementation Meadow Creek Cattle Grazing Practices to Evaluate Compatibility with Recovery of Threatened Salmonids</i>	PI: D. W. Bohnert	2021	\$6,740	\$6,740
16) Zoetis <i>Title: EOARC Health & Reproduction Research & Cattle Management – University Product Support Program</i>	PI: D. W. Bohnert	2020	\$22,000	\$12,000
15) Performix Nutrition <i>Title: Implementation Meadow Creek Cattle Grazing Practices to Evaluate Compatibility with Recovery of Threatened Salmonids</i>	PI: D. W. Bohnert	2020	\$7,157	\$7,157
14) Zoetis <i>Title: EOARC Health & Reproduction Research & Cattle Management – University Product Support Program</i>	PI: D. W. Bohnert	2019	\$22,200	\$22,200
13) Performix Nutrition <i>Title: Implementation Meadow Creek Cattle Grazing Practices to Evaluate Compatibility with Recovery of Threatened Salmonids</i>	PI: D. W. Bohnert	2019	\$6,548	\$6,548

12) Performix Nutrition	PI: D. W. Bohnert	2018	\$5,704	\$5,704
<i>Title: Implementation Meadow Creek Cattle Grazing Practices to Evaluate Compatibility with Recovery of Threatened Salmonids</i>				
11) Zoetis	PI: D. W. Bohnert	2018	\$22,200	\$22,200
<i>Title: EOARC Health & Reproduction Research & Cattle Management – University Product Support Program</i>				
10) Performix Nutrition	PI: D. W. Bohnert	2017	\$4,034	\$4,034
<i>Title: Implementation Meadow Creek Cattle Grazing Practices to Evaluate Compatibility with Recovery of Threatened Salmonids</i>				
9) Pfizer Animal Health	Co-PI; R. F. Cooke & D. W. Bohnert	2013	\$5,000	\$5,000
<i>Title: Metabolic imprinting: impact on reproductive development of beef heifers</i>				
8) Genex Cooperative, Inc.	Co-PI; R. F. Cooke, D. W. Bohnert , T. DelCurto, & C. Mueller	2011-2012	\$41,900	\$41,900
<i>Title: Incorporation of Sexed Semen into the 7-day CO-Synch+CIDR Estrous Synchronization Protocol</i>				
7) Pfizer Animal Health	Co-PI; R. F. Cooke & D. W. Bohnert	2010-2012	\$10,000	\$10,000
<i>Title: Incorporation of sexed semen into the 7-day CO-Synch + CIDR estrous synchronization protocol</i>				
6) Alltech, Inc.	PI; D. W. Bohnert	2005-2007	\$27,500	\$27,500
<i>Title: The Ability of a Modified Glucomannan, MTB-100™, to Minimize Toxic Effects of High-Alkaloid Tall Fescue Grass Seed Straw</i>				
5) AAA Land & Livestock	PI; D. W. Bohnert	2001-2002	\$1,000	\$1,000
<i>Title: Development of a nutritional calendar for use of forage kochia by ruminants</i>				
4) ADM/Moorman's	PI; D. W. Bohnert	2001-2002	\$13,500	\$13,500
<i>Title: Comparison of Urea and Biuret as Nitrogen Supplements to Low-Quality Forage: Daily and Alternate Day Supplementation Effects on Ruminant Performance and Nutrient Utilization</i>				
3) Western Stockmen's Inc.	PI; D. W. Bohnert	2000-2002	\$6,000	\$6,000
<i>Title: Influence of Protein Supplementation Frequency on Cows Consuming Low-Quality Forage: Performance, Intake, Harvest Efficiency, and Pasture Utilization</i>				
2) The Amalgamated Sugar Co.	PI; D. W. Bohnert	1999-2000	\$500	\$500
<i>Title: Beet Pulp Supplementation of Beef Heifers Grazing Native Flood Meadows: Performance, Intake, Digestibility, and Ruminal Fermentation</i>				
1) SoyPLUS/West Central Soy	PI; D. W. Bohnert	1999-2000	\$2,400	\$2,400
<i>Title: Protein Supplementation of Low-Quality Forage: Effects of Protein Degradability and Frequency of Supplementation on Ruminant Performance and Nutrient Utilization</i>				

Service

University Service

Committees

- Oregon State University Faculty Senate – **member**, 2022-2024
- OSU Animal and Rangeland Sciences Faculty/Staff Awards Committee, 2022 to 2023, **member**
- Faculty/Staff Awards Committee; 2021-2023; **member**
- Search Committee for EOARC Union Biological Science Technician 2 (2nd Search); 2021-2022; **Chair**
- Search Committee for CAS Associate Dean of Faculty Affairs – 2021; **member**
- OSU Workplace Safety Culture Task Force – 2021 to present; **member**.
- Animal and Rangeland Sciences P&T Committee – **Chair**; 2021; 2022
- Search Committee for EOARC Union Biological Science Technician 2; 2021 **Chair**
- CAS Cattle Plan Committee – **member**; 2020-2021
- CAS Ag Extension Peer-Review Process - AnRs **Co-Lead**; 2021 to present.
- Roy G. Arnold/Agricultural Research Foundation Leadership Award Committee – **member**; 2020
- CAS Strategic Advantages Workgroup – “Working and Natural Landscapes” theme – **member**; 2020.
- Search Committee for Grant County Extension Professor of Practice – **Chair**; 2019.
- Search Committee for Animal & Rangeland Sciences Department Head – **member**; 2019.
- Search Committee for Interim Animal & Rangeland Sciences Department Head – **member**; 2018.
- Oregon State University Faculty Senate – **member**, 2018-2020.
- Search Committee for CAS Dean – **member**, 2017-2018
- Candidate Evaluation Panel for the USDA-ARS Research Leader of the Range and Meadow Forage Management Research Unit located at EOARC Burns – **member**, 2016
- Oregon State University College of Agricultural Sciences Sage Grouse Coordinating Committee – **member**; 2015 to present
- Oregon State University Institutional Animal Care and Use Committee – **alternate member**; 2015 to 2018
- Search Committee for Eastern Oregon Agricultural Research Center (Burns) Faculty Research Assistant – **member**, 2015
- Search Committee for Animal and Rangeland Sciences Assistant Professor, Rangeland Ecology/Wildlife Habitat – **member**; 2015

- Search Committee for College of Agriculture Sciences Associate Dean – **member**; 2015
- Blue Mountains Elk Initiative Partnership Committee
(http://www.fs.fed.us/pnw/mdr/past/bmnri/research/initiatives_bme.shtml), Charter signing representative for OSU Extension & EOARC – **member**, 2015
- OSU Animal and Rangeland Sciences Graduate Committee - **member**; 1999 to 2004; 2006 to 2021
- College of Agricultural Sciences Safety Advisory Council – **member**, 2012 to present
- Animal and Rangeland Sciences P&T Committee – **member**; 2012 to 2020
- Review Committee for OSU Forage/Livestock Research Small Grants Program – **member**, 2008 to 2015.
- EOARC Safety (OSU)/SHEM (Safety, Health, & Environmental Management; USDA-ARS) Committee – **member**, 2004 to present.
- Manning Becker Professional Development Fund Committee – **member**, 2012 to 2014
- Search Committee for Rangeland Ecology & Management Assistant Professor, Eastern Oregon Agricultural & Natural Resource Program – **Chair**; 2014
- Search Committee for Bio Science Research Technician II (EOARC Burns) – **member**, 2014
- Search Committee for County Faculty Position for Malheur County – **Chair**; 2013
- Search Committee for Animal and Rangeland Sciences Watershed/Riparian Assistant Professor – **member**, 2012.
- Search Committee for Animal and Rangeland Sciences Department Head – **member**, 2010 to 2011.
- Animal Science/Rangeland Ecology & Management Strategic Planning Committee – **member**, 2010.
- Search Committee for Extension Beef Specialist located at EOARC-Burns – **Chair**; 2008
- Search Committee for Animal Scientist/Beef Systems Position for EOARC-Union – **member**, 2007
- Search Committee for Rangeland/Livestock Extension position for Harney County – **member**, 2007
- Search Committee for Rangeland/Livestock Extension position for Malheur County – **member**, 2007
- Search Committee for Animal Scientist/Beef Systems Position for EOARC-Union - **Chair**; 2006
- Search Committee for Biological Sciences Research Technician 1 at Burns Station – **Chair**, 2005
- Search Committee for OSU Extension Beef Specialist (Corvallis) – **Chair**, 2005
- Executive Committee (OSU Animal Sciences Department) – **member**, 2002 to 2010
- Search Committee for Business and Information Technology Extension Agent (Harney County) – **member**, 2002

- Search Committee for Faculty Research Assistant at Burns Station – **member**, 2001
- Search Committee for Animal Scientist at EOARC-Union – **member**, 2000
- Search Committee for Forages Scientist at Klamath Basin Research & Extension Center – **member**, 2000
- Winter Nutrition Workgroup (OSU Extension) committee – **Co-chair**, 1999 to 2004

Other University Service

- University Financial Model (UFM) Suite: Pilot Focus Group (Invitation from CAS)
- Mentor for Endophyte Service Laboratory Director Jennifer Duringer (requested by Jennifer Duringer) – 2022 to present.
- EOARC Union Station Discussion, Representative Levy, January 6, 2022
- OSU Search Advocate Training, November 2021
- OCA/OSU EOARC Union Planning Meeting, November 2021
- Crucial Conversations Training Course, completed October 29, 2021
- Oregon Solutions interview on NE Oregon Elk Depredation, Manuel Padilla; November 11, 2021
- Six Shooter Ranch Visit; Virtual Fence discussion and assessment if ranching operation for future outreach collaboration, September 22, 2021
- Mentor for Columbia Basin Agricultural Research Center Director Francisco Calderon (requested by CAS Administration) – 2021 to present.
- KZHC Community Talk Radio Show, Harney County, Interviewed on the importance of research and extension programming at EOARC to the people of Oregon (February 25, 2021)
- Organic Valley – OR investments in Agriculture, Part of CAS leadership discussing ongoing efforts to support organic pasturing and forage production and seek opportunities for collaboration, December 11, 2020
- EOARC Union Discussion around Mueller Proposal with OCA, April 16, 2020
- OSU Search Advocate Training, November 2019
- OSU Search Advocate Training, November 2017
- Reviewer for 2017 CAS Faculty and Staff Awards Committee (Briskey Award for Faculty Excellence, Savery Outstanding Young Faculty Award, Roy G. Arnold/ ARF Leadership Award)
- OSU Search Advocate Training, November 2016
- OSU Search Advocate Training, July 2015
- **Animal Care and Use contact for EOARC-Burns – Supervisor, 2002 to present**
- Great Basin Environmental Program (<http://greatbasinenvironmentalprogram.org/>); **Oregon State University Representative**, 2014 to present
- Frontier Oregon Meeting. Invited participant in a discussion of the rationale and objective of Frontier Oregon (Scott Campbell, Silvies Valley Ranch). Participants included

department heads, station directors and deans from the College of Forestry, College of Agricultural Sciences, Extension, OSU Cascades, and representatives of Silvies Valley Ranch. Bend, OR (June 16, 2014)

- Presented overview of OSU program at EOARC Burns and highlighted collaboration with USDA-ARS to Mark Boggess, ARS National Program Leader: Pasture, Forage, and Rangeland Systems. Burns, OR (April 1, 2014)
- Eastern Oregon Agricultural Tour. Provided overview of the OSU Research and Outreach programs at EOARC Burns to Oregon State Representatives Brad Witt and Lou Frederick and Senator Ted Ferrioli. Organized by the Oregon Cattlemen's Association and Oregon Cattlewomen's Association. Burns, OR (December 18, 2013)
- Guest on Representative Cliff Bentz's Radio Show (KSRV 1380 AM, Ontario; KBNH 1230 AM, Burns) to discuss importance of research and extension programming at EOARC to the people of Oregon (August 8, 2013)
- Oregon Wildfire Situation & Responses Meeting. Helped organize meeting and provided information. Representatives from Oregon Department of Agriculture, EOARC, Harney County Court, and EOARC Advisory Committee met at EOARC Burns to discuss the Wildfires in OR, NV, and ID (Oct. 9, 2012)
- Oregon Wildfire Situation & Planning Meeting. Helped organize meeting and provided information. Representatives from Governor's Office, BLM, ODFW, Harney and Malheur County Courts, Oregon Cattlemen's Association, EOARC, and EOARC Advisory Committee met at the Burns Airport to discuss the Wildfires in OR, NV, and ID (Oct. 7, 2012)
- Guest on Representative Cliff Bentz's Radio Show (KSRV 1380 AM, Ontario; KBNH 1230 AM, Burns) to discuss importance of research and extension programming at EOARC to the people of Oregon (June 20, 2012)
- Surgical skills – Provide surgical skill for IACUC approved projects
 - Steer ruminal surgeries (September 2013); 8 steers for EOARC-Burns
 - Steer ruminal surgery (July 2012); steer for OSU College of Veterinary Medicine
 - Dairy cow ruminal surgeries (May 2012); 2 cows for OSU Animal and Rangeland Sciences Department
 - Steer ruminal surgeries (August 2010); 9 steers for EOARC-Burns
 - Dairy cow ruminal surgeries (October 2006); 2 cows for OSU Animal Sciences Department
 - Steer ruminal surgeries (Oct. 2005); 16 steers for EOARC- Burns
 - Steer ruminal surgeries (June 2005); 6 heifers for EOARC Union
 - Lamb ruminal surgeries (June 2005); 4 lambs for OSU Animal Sciences Department
 - Lamb ruminal surgeries (July 2004); 6 lambs for OSU College of Veterinary Medicine
 - Dairy cow ruminal surgeries (March 2003); 2 cows for OSU Animal Sciences Department
 - Steer ruminal surgeries (Sept. 2002); 17 steers for EOARC- Burns & Union

- Lamb ruminal surgeries (April 2002); 3 lambs OSU College of Veterinary Medicine
- Steer ruminal surgeries (April 2001); 6 steers for EOARC Union
- Steer ruminal surgeries (August 2000); 6 steers for OSU Animal Sciences Department
- Steer duodenal surgeries (July 1999); 10 steers for EOARC Burns
- Steer ruminal surgeries (June 1999); 10 steers for EOARC Burns

Service to the Profession

Professional Association/Society Involvement

- **Western Section of the American Society of Animal Science Executive Committee; Advisory and Coordinating Chair; 2021 to 2022.**
- Graduate Competition Committee; Western Section of the American Society of Animal Science – **member**, 2019 to 2020.
- Extension Committee; Western Section of the American Society of Animal Science; **member**, 2017 to 2018.
- Beef Symposium Committee; Western Section of the American Society of Animal Science; **Chair**, 2017 to 2018
- **Beef Symposium Committee; Western Section of the American Society of Animal Science; member, 2016 to 2018; 2021-2023**
- Ruminant Nutrition/Non-Ruminant Nutrition Committee; Western Section of the American Society of Animal Science; **Chair**, 2015
- Animal and Range Sciences Department (Montana State University) External Review Team (John Tanaka, UW; Margaret Bensen WSU, and David Bohnert, OSU) – Bozeman, MT Oct 9-10, 2013
- **Western Coordinating Committee (W3012) “Improving ruminant use of forages in sustainable production systems for the western U.S.”; Secretary, 2017; Secretary-elect, 2016; member, 2013 to present**
- Pastures & Forages Committee; Western Section of the American Society of Animal Science; **Chair**, 2011
- Review Committee for Oregon Beef Council Animal Science Grant Program – **member**, 2008 to 2013
- USDA/CSREES Project: Nitrogen Cycling, Loading, and Use Efficiency in Forage Livestock Production Systems Committee – **member**, 2008 to 2013
- Awards Committee; Western Section of the American Society of Animal Science - **member**, 2007 to 2009
- Ruminant Nutrition: Joint Program Committee of the American Society of Animal Science and American Society of Dairy Science – **Chair**, 2006
- Ruminant Nutrition: Joint Program Committee of the American Society of Animal Science and American Society of Dairy Science – **vice-chair**, 2005

- Ruminant Nutrition: Joint Program Committee of the American Society of Animal Science and American Society of Dairy Science - **member**, 2004
- Graduate Competition Committee; Western Section of the American Society of Animal Science – **member**, 2004 to 2007
- Alpha Beef Cattle Symposium Committee; American Society of Animal Science - **member**, 2004
- Extension Committee; Western Section of the American Society of Animal Science – **member**, 2000 to 2002
- Society for Range Management; **member**; 2006 to 2013; 2017 to present.
- American Society of Animal Science; **member**; 1994 to present
- American Dairy Science Association; **member**; 1994 to 2006

Editorial experience

- **Section Editor**; Livestock and Rangeland; CAS OSU Extension; 2017 to present
- **Assistant Section Editor**; Ruminant Nutrition/Pasture & Forages; Western Section of the American Society of Animal Science; 2016; 2019
- **Section Editor**; Ruminant Nutrition/Non-Ruminant Nutrition; Western Section of the American Society of Animal Science; 2015
- Integrated Resource Management (IRM) Pocket Reference Book - National Cattlemen's Beef Association; Invited review, 2012
- **Section Editor**; Pastures & Forages; Western Section of the American Society of Animal Science; 2011
- **Section Editor**; Nutrition; OSU Beef Cattle Library, 2009 to present
- **Section Editor**; Management; OSU Beef Cattle Library, 2009 to present
- **Section Editor**; Hay Production; OSU Beef Cattle Library, 2009 to present
- **Associate Editor**; Nutrition Section; American Society of Animal Science, 2007 to 2009
- **Section Editor**; Ruminant Nutrition: Joint Program Committee of the American Society of Animal Science and American Society of Dairy Science; 2006
- **Editorial Board**; American Society of Animal Science, 2005 to 2007
- **Section Co-Editor**; Nutrition; Cow-Calf Management Guide and Cattle Producer's Library; Western Beef Resource Committee (WBRC), 1999 to 2006

Service to the Public (professionally related)

- Harney County Natural Resource Action Committee; **member**, 2019 to present.
- Harney County Fair Fat Sale Committee; **member**, 2018 to present.
- Beef Quality Assurance Program – Cow/Calf Certification; 2018; 2021
- Crane, OR Science Fair; **judge**, 2018

- Harney County Youth Changing the Community Collaborative (<https://highdesertpartnership.org/collaboratives/youth-changing-the-community-collaborative/yctc-landing-page.html>); **member**, 2017 to present
- Harney County Technical Advisory Committee - Public Land Use; **member**, 2017 to 2018.
- Burns FFA Alumni Committee; **member**, 2015 to present
- Interview concerning Oregon Beef Production and Brazilian Beef Production. Published by BeefPoint in Brazil <http://www.beefpoint.com.br/cadeia-produtiva/entrevistas/conheca-dr-david-w-bohnert-diretor-do-centro-de-pesquisa-da-universidade-de-oregon-eua-e-sua-visao-sobre-a-producao-brasileira-de-bovinos-de-corte/> (accessed 6/18/2015)
- Harney School District Science Fair; **judge** (March 8, 2014)
- Cattlemen's Educational Committee, Oregon Cattlemen's Association - **member**, 2010 to present
- Harney County Fair Livestock Sale Committee; **member**, 2008 to 2014; 2019 to present.
- Harney County Stockgrower's Association – **President**, 2008 to 2010
- Phillip W. Schneider Wildlife Area Tour (August 7, 2007); Organized a tour, requested by Steve Allen of the wildlife area, consisting of BLM, ODFW, ARS, and OSU employees to evaluate and make recommendations concerning medusa head invasion, declining deer numbers, decadent bitterbrush stands, and wolfy forage
- Burns FFA Advisory Committee; **member**, 2005 to present
- Burns FFA Interview; participated in a radio interview concerning Mad Cow Disease and nvCJD, Jan. 10, 2005
- Harney County National Beef Ambassador Competition; **judge**, 2000
- Harney County Hay & Forage Association – **Secretary**, 2000 to 2006
- Oregon Cattlemen's Association – **member**, 1999 to present
- Harney County Stockgrower's Association – **member**, 1999 to present

Service to the Public (non-professionally related)

- Harney County Minor League Baseball Coach (Team: Mariners) - 2016
- Heartsaver First Aid CPR & AED Training – 2010, 2012, 2015
- Harney County Mounted Search & Rescue Team – **member**, 2002 to 2006

Awards

2021 Extension Award (Western Section American Society of Animal Science) - Recognizes outstanding achievements in animal science extension programs at western region institutions

2020 Roy G. Arnold Agricultural Research Foundation Leadership Award (Oregon State University; College of Agricultural Sciences) - Recognizes an administrator for outstanding

contributions to the research mission by of the College of Agricultural Science at Oregon State University

2016 Briskey Award for Faculty Excellence (Oregon State University; College of Agricultural Sciences) - Recognizing faculty achievement within the College of Agricultural Sciences at Oregon State University

2005 Young Scientist Award (Western Section American Society of Animal Science) – Established to recognize outstanding research achievement by young members of the Western Section of the American Society of Animal Science