

CURRICULUM VITAE

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EDUCATION:

- 1991 **Ph.D.**, Oklahoma State University (OSU), Statistics.
- 1988 **M.S.**, OSU, Statistics.
- 1986 **B.S.Ed.**, Missouri State University (MSU), Mathematics Education.

PROFESSIONAL EXPERIENCE:

- 2013-Present Head, OSU, Department of Statistics
- 2011-Present Regents Service Professor, OSU, Department of Statistics
- 2010-2011 Interim Dean, OSU, Graduate College
- 2006-2010 Associate Dean, OSU, Graduate College
- 2001-2011 Professor, OSU, Department of Statistics.
- 1996-2001 Associate Professor, OSU, Department of Statistics.
- 1991-1996 Assistant Professor, OSU, Department of Statistics.

COURSES TAUGHT:

- BIOM 5013 Biomedical Statistical Methods
- STAT 5303 Experimental Design
- STAT 5073 Categorical Data Analysis
- STAT 5043 Survey Sampling Methods
- STAT 5013 & 5023 Statistics for Experimenters I & II
- STAT 5003 Statistics for Medical Residents

STAT 4073	Engineering Statistics with Experimental Design
STAT 4013 & 4023	Statistics Methods I & II
STAT 2023	Elementary Statistics for Business & Economics (honors section)
STAT 2013	Introduction to Statistics

JOURNAL PUBLICATIONS:

1. Payton, M.E., Young, L.J., and Young, J.H. (1989), "Bounds for the Difference between Median and Mean of Beta and Negative Binomial Distributions," *Metrika*, 36 (6): 347-354.
2. Bonjour, E.L., Fargo, W.S., Al-Obaidi, A.A., and Payton, M.E. (1993), "Host Effects on Reproduction and Adult Longevity of Squash Bugs (*Heteroptera: Coreidae*)," *Environmental Entomology*, vol. 22, no. 6, 1344-1348.
3. Khan, N.I., Filonow, A.B., Singleton, L.L., and Payton, M.E. (1993), "Parasitism of Oospores by *Pythium ssp.* by Strains of *Actinoplanes ssp.*," *Canadian Journal of Microbiology*, vol. 39, 964-972.
4. Payton, M.E., Young, L.J., and Chandler, J.P. (1993), "Using SAS to Solve a System of Non-Linear Equations," *Journal of Statistical Simulation and Computation*, vol. 47, 114-117.
5. Fargo, W.S., Cuperus, G.W., Bonjour, E.L., Burkholder, W.E., Clary, B.L., and Payton, M.E. (1994), "Influence of Probe Trap Type and Attractants on the Capture of Four Stored-Grain Coleoptera," *Journal of Stored Products Research*, vol. 30, 237-241.
6. Payton, M.E., and Young, L.J. (1994), "A Sequential Procedure for Deciding Among Three Hypotheses," *Sequential Analysis*, vol. 13, 277-300.
7. Fulton, R.W., Confer, A.W., Burge, L.J., Perino, L.J., d'Offay, J.M., Payton, M.E., and Mock, R.E. (1995), "Antibody Responses by Cattle After Vaccination with Commercial Viral Vaccines Containing Bovine Herpesvirus-1, Bovine Viral Diarrhea Virus, Parainfluenza-3 Virus, and Bovine Respiratory Syncytial Virus Immunogens and Subsequent Revaccination at Day 140," *Vaccine*, vol. 13, 725-733.
8. Fulton, R.W., Morton, R.J., Burge, L.J., Short, E.C., and Payton, M.E. (1995), "Action of Quail and Chicken Interferons on a Quail Cell Line, QT35," *Journal of Interferon Research*, 297-300.
9. Sams, M.G., Lochmiller, R.L., Hellgren, E.C., Payton, M.E., and Varner, L.W. (1995), "Physiological Responses of Neonatal White-Tailed Deer Reflective of Maternal Dietary Protein Intake," *Canadian Journal of Zoology*, vol. 73, 1928-1936.

10. Hunger, R.M., Siegerist, W.C., Smith, E.L., Morgan, G., and Payton, M.E. (1996), "Reaction of the Southern Regional Performance Nursery (SRPN) to Wheat Leaf Rust," *Biological and Cultural Tests for Control of Plant Diseases*, vol. 11.
11. Masters, R.E., Wilson, C.W., Bukenhofer, G.A., and Payton, M.E. (1996), "Effects of Pine-Grassland Restoration for Red-Cockaded Woodpeckers on White-Tailed Deer Forage Production," *Wildlife Society Bulletin*, vol. 24, 77-84.
12. Sams, M.G., Lochmiller, R.L., Qualls, C.W., Leslie, D.M., and Payton, M.E., (1996), "Physiological Correlates of Neonatal Mortality in an Overpopulated White-Tailed Deer Herd," *Journal of Mammalogy*, vol. 77, 179-190.
13. Stockton, R.D., Krenzer, E.G., Solie, J.B., and Payton, M.E. (1996), "A Survey of Stand Establishment of Winter Wheat in Oklahoma," *Journal of Production Agriculture*, vol. 9, 571-575.
14. Cole, J.T., Baird, J.H., Huhnke, R.L., Basta, N.T., Storm, D.E., Johnson, G.V., Payton, M.E., Martin, D.L., and Smolen, M.D. (1997), "Influence of Buffer-strip Length, Mowing Height, and Aerification on Pesticide and Nutrient Runoff from Bermudagrass Turf," *Journal of Environmental Quality*, vol. 26, 1589-1598.
15. Fulton, R.W., Burge, L.J., d'Offay, J.M., and Payton, M.E. (1997), "Serum Antibody Response in Calves Receiving Modified Live and/or Inactivated Vaccines Containing Bovine Herpesvirus-1, Bovine Viral Diarrhea Virus, Parainfluenza-3 Virus, and Bovine Respiratory Syncytial Virus Immunogens," *The Bovine Practitioner*, no. 31, 90-96.
16. Huhnke, R.L., Muck, R.E., and Payton, M.E. (1997), "Round Bale Silage Storage Losses of Ryegrass and Legume-Grass Forages," *Applied Engineering in Agriculture*, vol. 13, 451-457.
17. Hunger, R.M., Sherwood, J.L., Krenzer, G., Mulder, P., and Payton, M.E. (1997), "Evaluation of Gaucho 480 F Seed Treatment to Control Aphids and Barley Yellow Dwarf (BYD) in Hard Red Winter Wheat," *Fungicide and Nematicide Tests*, vol. 52.
18. Hunger, R.M., Sherwood, J.L., Siegerist, W.C., Myers, L., and Payton, M.E. (1997), "Reaction of Wheat Genotypes to Wheat Soilborne Mosaic (WSBM)," *Biological and Cultural Tests for Control of Plant Diseases*, vol. 12.
19. Lange, D.N., Rochat, M.C., Bartels, K.E., Payton, M.E., Hoffman, R.J., Schafer, S.A., and Dickey, D.T. (1997), "Comparison of Carbon Dioxide Laser Modalities for Removal of Polymethylmethacrylate Cement," *Veterinary Orthopaedics and Traumatology*, vol. 10, 27-32.
20. Moser, B.K., and Payton, M.E. (1997), "Hypothesis Testing for the Quantiles of Two-Parameter Binary Models," *Communications in Statistics, Theory and Methods*, vol. 26, 487-494.
21. Moser, B.K., Payton, M.E., and Liranso, T. (1997), "Two Stage Estimation of Parameters and Quantiles of Two Parameter Binary Models," *Sequential Analysis*, vol. 16, no. 3.

22. Payton, M.E. (1997), "Confidence Intervals for the Coefficient of Variation," *Proceedings for the Kansas State University Conference for Applied Statistics in Agriculture*, 82-87.
23. Taylor, D.L., Schafer, S.A., Nordquist, R., Payton, M.E., Dickey, D.T., and Bartels, K.E. (1997), "Comparison of a High Power Diode Laser with the Nd: YAG Laser Using *in situ* Wound Strength Analysis of Healing Cutaneous Incisions," *Lasers in Surgery and Medicine*, vol. 21, 248-254.
24. Aquino, I.S., Eikenbary, R.D., Aquino, R.A.S., and Payton, M.E. (1998), "Use of Carnauba (*Copernicia Cerifera* Arruda Camara) Wax in Rearing Parasitic Hymenoptera for Biological Control," *Revista de Oleaginosas e Fibras*, vol. 2, 103-108.
25. Baird, J.H., Martin, D.L., Taliaferro, C.M., Payton M.E., and Tisserat, N.A. (1998), "Bermudagrass Resistance to Spring Dead Spot Caused by *Ophiosphaerella Herpotricha*," *Plant Disease*, vol. 82, 771-774.
26. Hunger, R.M., Sherwood, J.L., Siegerist, W.C., Myers, L., and Payton, M.E. (1998), "Reaction of Wheat Genotypes to Wheat Soilborne Mosaic (WSBM), 1997," *Biological and Cultural Tests for Control of Plant Diseases*, vol. 13.
27. Hunger, R.M., Siegerist, W.C., Smith, E.L., Morgan, G., and Payton, M.E. (1998), "Reaction of Wheat Genotypes to Wheat Leaf Rust, 1997," *Biological and Cultural Tests for Control of Plant Diseases*, vol. 13.
28. Platt, R.R., Cuperus, G.W., Payton, M.E., Bonjour, E.L., and Pinkston, K.N. (1998), "Integrated Pest Management Perceptions and Practices and Insect Populations in Grocery Stores in South-Central United States," *Journal of Stored Product Research*, vol. 34, 1-10.
29. Richter, S.J. and Payton, M.E. (1998), "Using Ranks to Perform Exact and Estimated Exact Tests in Designed Experiments," *Proceedings for the Kansas State University Conference for Applied Statistics in Agriculture*, vol. 9.
30. Schetter, T.A., Lochmiller, R.L., Leslie, D.M., Engle, D.M., and Payton, M.E. (1998), "Examination of the Nitrogen Limitation Hypothesis in Non-cyclic Populations of Cotton Rats (*Sigmodon hispidus*)," *Journal of Animal Ecology*, vol. 67, 705-721.
31. Aquino, I.S., Abramson, C.I., and Payton, M.E. (1999), "A Rapid Bioassay for the Detection of Adulterated Beeswax," *Journal of Entomological Science*, vol. 34, 265-272.
32. Gallimore, L.E., Basta, N.T., Storm, D.E., Payton, M.E., Huhnke, R.L., and Smolen, M.D. (1999), "Water Treatment Residual to Reduce Nutrients in Surface Runoff from Agricultural Land," *Journal of Environmental Quality*, vol. 28, 1474-1478.

33. Hunger, R.M., Siegerist, W.C., Smith, E.L., Morgan, G., and Payton, M.E. (1999), "Reaction of Wheat Genotypes to Wheat Leaf Rust, 1998," *Biological and Cultural Tests for Control of Plant Diseases*, vol. 14.
34. Mulder, P.G., Prescott, D.J., and Payton, M.E. (1999), "Effect of Insecticides and Fungicides on Potato Leafhoppers, Defoliating Caterpillars, Beneficial Arthropods and Peanut Yield, 1997," *Arthropod Management Tests*, vol. 24.
35. Payton, M.E., and Young, L.J. (1999), "A Sequential Procedure to Test Three Values of a Binomial Parameter," *Metrika*, vol. 49, 41-52.
36. Richter, S.J. and Payton, M.E. (1999), "Nearly Exact Tests in Factorial Experiments Using the Aligned Rank Transform," *Journal of Applied Statistics*, vol. 26, 203-217.
37. Sparks, J.C., Masters, R.E., Engle, D.M., Payton, M.E., and Bukenhofer, G.A. (1999), "Influence of Fire Season and Fire Behavior on Woody Plants in Red-Cockaded Woodpecker Clusters," *Wildlife Society Bulletin*, vol. 27, 124-133.
38. Taylor, S.L., Payton, M.E., and Raun, W.R. (1999), "Relationship between Mean Yield, Coefficient of Variation, Mean Square Error and Plot Size in Wheat Field Experiments," *Communications in Soil Science and Plant Analysis*, vol. 30, 1439-1447.
39. Wilson, C.A and Payton, M.E. (1999), "A Methodology for Modeling the Coefficients of Variation of Normal Populations Using Approximate Distributions," *Proceedings of the Kansas State University Conference for Applied Statistics in Agriculture*, vol. 10, 202-213.
40. Wilson, C.A., Payton, M.E., Stevens, E.W., Huhnke, R.L., Storm, D.E., Basta, N.T., and Baird, J.H. (1999), "A Time Series Analysis of the Effect of Vegetative Buffers on Contaminant Runoff from Bermudagrass Turf," *Proceedings of the Kansas State University Conference for Applied Statistics in Agriculture*, vol. 10, 193-201.
41. Alvarez, P., Spicer, L.J., Chase, C.C., Payton, M.E., Hamilton, T.D., Stewart, R.E., Hammond, A.C., Olson, T.A., and Wettemann, R.P. (2000), "Ovarian and Endocrine Characteristics During an Estrous Cycle in Angus, Brahman and Senepol Cows in a Subtropical Environment," *Journal of Animal Science*, vol. 78, 1291-1302.
42. Bowen, C., Melouk, H.A., Jackson, K.E., and Payton, M.E. (2000), "Effect of a Select Group of Seed Protectant Fungicides on Growth of *Sclerotinia Minor* In Vitro and Its Recovery from Infested Peanut Seed," *Plant Disease*, vol. 84, 1217-1220.
43. Caldwell, A.M., Bantle-Stoner, K., Cuperus, G.W., Payton, M.E., and Berberet, R.C. (2000), "Coverage of Integrated Pest Management in Major Urban Newspapers," *American Entomologist*, vol. 46, 56-60.
44. Chen, Y., Giles, K.L., Payton, M.E., and Greenstone, M.H. (2000), "Identifying Key Cereal Aphid Predators by Molecular Gut Analysis," *Molecular Ecology*, vol. 9, 1887-1898.

45. Drost, W.T., Henry, G.A., Meinkoth, J.H., Woods, J.P., Payton, M.E., and Rodebush, C. (2000), "The Effects of a Unilateral, Ultrasound-Guided, Renal Biopsy on Renal Function in Healthy, Sedated Cats," *Veterinary Radiology and Ultrasound*, vol. 41, 57-62.
46. Fulton, R.W., Saliki, J.T., Confer, A.W., Burge, L.J., d'Offay, J.M., Helman, R.G., Bolin, S.R., Ridpath, J.F., and Payton, M.E. (2000), "Bovine Viral Diarrhea Virus Cytopathic and Noncytopathic Biotypes and Type 1 and 2 Genotypes in Diagnostic Laboratory Accessions: Clinical and Necropsy Samples from Cattle," *Journal of Veterinary Diagnostic Investigation*, vol. 12, 33-38.
47. Giles, K.L., Madden, R.D., Payton, M.E., and Dillwith, J.W. (2000), "Survival and Development of *Chrysoperla rufilabris* (Neuroptera: Chrysopidae) Supplied with Pea Aphids (Homoptera: Aphididae) Reared on Alfalfa and Faba Bean," *Environmental Entomology*, vol. 29, 304-311.
48. Hunger, R.M., Verchot, J., Siegerist, W.C., Driskel, B., and Payton, M.E. (2000), "Reaction of Wheat Genotypes to Wheat Soilborne Mosaic (WSBM), 1999," *Biological and Cultural Tests for Control of Plant Disease*, vol. 15.
49. Ko, J.C.H., Lange, D.N., Mandsager, R.E., Payton, M.E., Bowen, C., Kamata, A., and Kuo, W. (2000), "Effects of Butorphanol and Carprofen on Minimal Alveolar Concentration of Isoflurane in Dogs," *Journal of American Veterinary Medical Association*, vol. 217, 1-4.
50. Mulder, P.G. and Payton, M.E. (2000), "Pecan Nut Casebearer Control in Pecans, 1999," *Arthropod Management Tests*, vol. 25.
51. Payton, M.E., Miller, A.E., and Raun, W.R. (2000), "Testing Statistical Hypotheses Using Standard Error Bars and Confidence Intervals," *Communications in Soil Science and Plant Analysis*, vol. 31, 547-552.
52. Schroder, J.L., Basta, N.T., Lochmiller, R.L., Rafferty, D.P., Payton, M.E., Kim, S., and Qualls, C.W., Jr. (2000), "Soil Contamination and Bioaccumulation of Inorganics on Petrochemical Sites," *Environmental Toxicology and Chemistry*, vol. 19, 2066-2072.
53. Arjmandi, B.H., Khalil, D.A., Lucas, E.A., Juma, S., Payton, M.E., Munson, M.E., Arquitt, A.B., Wild, R.A. (2001), "Soy Protein with Its Isoflavones Improves Bone Markers in Women Particularly Those with Low Estrogen Status," *Journal of Bone and Mineral Research*, vol. 16.
54. Davidson, E.B., Davis, M.S., Campbell, G.A., Williamson, K.K., Payton, M.E., Healey, T.S., and Bartels, K.E., (2001), "Evaluation of Carbon Dioxide Laser and Conventional Incisional Techniques for Resection of Soft Palates in Brachycephalic Dogs," *Journal of American Veterinary Medical Association*, vol. 219, 776-781.
55. Davidson, E.B., Davis, M.S., Campbell, G.A., Williamson, K.K., Payton, M.E., Healey, T.S., and Bartels, K.E., (2001), "Comparison of CO2 Laser and Sharp

Dissection Techniques for Excision of Elongated Soft Palates in Brachycephalic Dogs,” *Proceedings of the SPIE*, vol. 4244, 575-582.

56. Giles, K.L., Stockland, R., Madden, R.D., Payton, M.E., and Dillwith, J.W. (2001), “Preimaginal Survival and Development of *Coleomegilla maculata* and *Hippodamia convergens* (Coleoptera: Coccinellidae) Reared on *Acyrtosiphon pisum*: Effects of Host Plants,” *Environmental Entomology*, vol. 30, 964-971.
57. Hunger, R.M., Olson, B., Siegerist, W.C., Krenzer, G., and Payton, M.E. (2001), “Evaluation of Gaucho 480 F Seed Treatment to Control Aphids and Barley Yellow Dwarf (BYD) in Hard Red Winter Wheat (HRWW), 2000,” *Fungicide and Nematicide Tests*, vol. 56.
58. Hunger, R.M., Verchot, J., Siegerist, W.C., Driskel, B., and Payton, M.E. (2001), “Reaction of Wheat Genotypes to Wheat Soilborne Mosaic (WSBM), 2000,” *Biological and Cultural Tests for Control of Plant Disease*, vol. 16.
59. Kirkpatrick, J.G., Fulton, R.W., Burge, L.J., Dubois, W.R., and Payton, M.E. (2001), “Passively Transferred Immunity in Newborn Calves, Rate of Antibody Decay, and Effect on Subsequent Vaccination with Modified Live Virus Vaccine,” *Bovine Practitioner*, vol. 35, 47-54.
60. Ko, J.C.H., Mandsager, S.E., Payton, M.E., Maszle, E.E., Moore, H.D., and Solmon, E.M. (2001), “Comparison of Isoflurane and Sevoflurane chamber Induction and Recovery in Cats,” *Veterinary Anaesthesia and Analgesia*, vol. 28, 97-110.
61. Linn, L.L., Rochat, M.C., Brusewitz, G.H., and Payton, M.E. (2001), “Extraction Resistance of 2.7 mm Mediolateral Placed Cortical Screws Compared with 2.7 mm and 3.5 mm Craniocaudal Placed Cortical Screws in Canine Cadaver Radii,” *Veterinary and Comparative Orthopaedics and Traumatology*, vol. 14, 1-6.
62. Mulder, P.G., Seuhs, S.K., Shoff, E.M., Sheridan, A., and Payton, M.E. (2001), “Pecan Nut Casebearer Control in Pecans, 2000,” *Arthropod Management Tests*, vol. 26.
63. Alsup, C.M., Kahn, B.A., and Payton, M.E. (2002), “Using Hairy Vetch to Manage Soil Phosphorus Accumulation from Poultry Litter Applications in a Warm-Season Vegetable Rotation,” *HortScience*, vol. 37, 490-495.
64. Alsup, C.M., Kahn, B.A., and Payton, M.E. (2002), “Using Cowpea to Manage Soil Phosphorus Accumulation from Poultry Litter Applications in a Cool-Season Vegetable Rotation,” *HortScience*, vol. 37, 496-501.
65. Arjmandi, B.H., Khalil, D.A., Lucas, E.A., Georgis, A., Stoecker, B.J., Hardin, C., Payton, M.E., and Wild, R.A. (2002), “Dried Plums Improve Indices of Bone Formation in Postmenopausal Women,” *Journal of Women’s Health and Gender-Based Medicine*, vol. 11, 61-68.
66. Caldwell, A.M., Bantle-Stoner, K., Cuperus, G.W., Payton, M.E., and Berberet, R.C. (2002), “Media Coverage of Integrated Pest Management in Major Urban Newspapers,” *Journal of Arboriculture*, vol. 28, 303.

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68. Chenault, K.D., Burns, J.A., Melouk, H.A., and Payton, M.E. (2002), "Hydrolase Activity in Transgenic Peanut," *Peanut Science*, vol. 29, 89-95.
69. Darcy, R. and Payton, M.E. (2002), "2002 Oklahoma Bar Association Survey Report," *Oklahoma Bar Journal*, vol. 73, 3395-3434.
70. Davis, M.S., Royer, C.M., Payton, M.E., and Buttress, B. (2002), "Modeling the Late Phase Dose-Responses to Peripheral Airway Hyperpnea," *Journal of Applied Physiology*, vol. 93, 195-200.
71. Driskel, B.A., Hunger, R.M., Payton, M.E., and Verchot, J. (2002), "Reaction of Hard Red Winter Wheat to *Soilborne Wheat Mosaic Virus* Using Novel Inoculation Methods," *Phytopathology*, vol. 92, 347-354.
72. Fulton, R.W., Cook, B.J., Step, D.L., Confer, A.W., Saliki, J.T., Payton, M.E., Burge, L.J., Welsh, R.D., and Blood, K.S. (2002), "Evaluation of Health Status of Calves and the Impact on Feedlot Performance: Assessment of a Retained Ownership Program of Postweaning Calves," *Canadian Journal of Veterinary Research*, vol. 66, 173-180.
73. Fulton, R.W., Ridpath, J.F., Saliki, J.T., Briggs, R.E., Confer, A.W., Burge, L.J., Purdy, C.W., Loan, R.W., Duff, G.C., and Payton, M.E. (2002), "Bovine Viral Diarrhea Virus (BVDV) 1b: Predominant BVDV Subtype in Calves with Respiratory Disease," *Canadian Journal of Veterinary Research*, vol. 66, 181-190.
74. Giles, K.L., Madden, R.D., Stockland, R., Payton, M.E., and Dillwith, J.W. (2002), "Host Plants Affect Predator Fitness via the Nutritional Value of Herbivore Prey: Investigation of a Plant-Aphid-Ladybeetle System," *BioControl*, vol. 47, 1-21.
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81. Sullivan, M.J., Damicone, J.P., and Payton, M.E. (2002), "The Effects of Temperature and Wetness Period on the Development of Spinach White Rust," *Plant Disease*, vol. 86, 753-758.
82. Wilson, C.A., and Payton, M.E. (2002), "Modelling the Coefficient of Variation in Factorial Experiments," *Communications in Statistics-Theory and Methods*, vol. 31, 463-476.
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85. Arjmandi, B.H., Khalil, D.A., Smith, B.J., Lucas, E.A., Juma, S., Payton, M.E., and Wild, R.A. (2003), "Soy Protein Has a Greater Effect on Bone in Postmenopausal Women Not on Hormone Replacement Therapy as Evidenced by Reducing Bone Resorption and Urinary Calcium Excretion," *Journal of Clinical Endocrinology & Metabolism*, vol. 88, 1048-1054.
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88. Chenault, K.D, Payton, M.E., and Melouk, H.A. (2003), "Greenhouse Testing of Transgenic Peanut for Resistance to *Sclerotinia minor*," *Peanut Science*, vol. 30, 116-120.
89. Davis, M.S., Willard, M.D., Nelson, S.L., McCullough, S.M., Roberts, J. Mandsager, R.E., and Payton, M.E. (2003), "Efficacy of Omeprazole for the Prevention of

Exercise-Induced Gastritis in Racing Alaskan Sled Dogs,” *Journal of Veterinary Internal Medicine*, vol. 17, 163-166.

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329. Shrestha, A., Cole, J.C. and Payton, M.E. (2013), "Survey of Cultural Practices Used in Viburnum Production," *Journal of Environmental Horticulture*, vol. 31, 109-116.
330. Shufran, A.A., Mulder, P.G., Payton, M.E., and Shufran, K.A. (2013), "Determining Host-Suitability of Pecan for Stored-Product Insects," *Journal of Economic Entomology*, vol. 106, 1071-1074.

BOOKS CHAPTERS:

1. Berberet, R.C., Payton, M.E., and Ward, C.E. (1999), "Value of Host Plant Resistance in Improving Profitability of Alfalfa Forage Production," Benefits of Resistance in Field Crops, Thomas Say Publications, 115-130.

2. Baird, J.B., Basta, N.T., Huhnke, R.L., Johnson, G.V., Payton, M.E., Storm, D.E., Wilson, C.A., Smolen, M.D., Martin, D.L., and Cole, J.T. (2000), "Best Management Practices to Reduce Pesticide and Nutrient Runoff from Turf," Fate and Management of Turfgrass Chemicals, American Chemical Society, 268-293.

GRANTS AND CONTRACTS:

1. "A Sequential Procedure for Testing Three Binomial Proportions," Dean's Incentive Grant, \$3,000, Summer 1992.
2. "A Two-Stage Procedure for Estimating the Quantiles of a Logit Model," Dean's Incentive Grant, \$3,000, Summer 1993.
3. "Sequential Sampling Techniques for Testing Discrete Distribution Parameters for Multiple Hypotheses," Dean's Incentive Grant, \$3,000, Summer 1994.
4. "Time Series Model for Predicting Sales," The Charles Machine Works, Inc., \$2,430, Spring 1996.
5. "Adapting the Charlson Comorbidity Index to the CCP Data," The Arkansas Foundation for Medical Care, \$17,520, 1996-1997.
6. "Revising Time Series Models for Predicting Sales," The Charles Machine Works, Inc., \$2,800, Spring 1999.
7. "Extending Time Series Models Utilizing International Sales Data," The Charles Machine Works, Inc., \$7,500, 2000-2001.

GRANTS (ADMINISTRATIVE, NON-RESEARCH)

1. "Oklahoma Louis Stokes Alliance for Minority Participation - Bridge to the Doctorate – Cohort 3," National Science Foundation (HRD 0832871), \$987,000, 2008-2010 (active PI in 2010).
2. "Louis Stokes Alliance for Minority Participation in STEM," National Science Foundation (HRD 0902027), \$2,500,002, 2009-2014 (active PI from 2010 to 2012).
3. "Oklahoma Louis Stokes Alliance for Minority Participation - Bridge to the Doctorate – Cohort 4," National Science Foundation (HRD 0929135), \$987,000 (subaward to the University of Oklahoma), 2009-2011 (active PI from 2010 to 2011).
4. "Oklahoma Louis Stokes Alliance for Minority Participation - Bridge to the Doctorate – Cohort 5," National Science Foundation (HRD 1139824), \$987,000, 2011-2013 (active PI from 2011 to 2012).

GRANTS (CO-PI):

1. "Evaluation of Best Management Practices to Protect Surface Water Quality from Pesticides and Fertilizer Applied to Bermudagrass [*Cynodon dactylon* (L.) Pers.] Fairways," United States Golf Association Grant, \$125,286, 1995-1997.
2. "Vaporization of Methylmethacrylate Using Laser Energy for Total Hip Revisions," OSU CVM Companion Animal Grant, \$6,000, 1996.
3. "New Pest Monitoring Approaches in Food Processing, Warehouses and Grocery Stores," OSU OAES Research Initiative Program for Food and Agricultural Products Research and Technology Center, \$18,500, 1997.
4. "Use of Holmium Laser Energy for Lithotripsy of Urologic Calculi," Morris Animal Foundation Grant, \$8,200, 1997.
5. "Wound Sterilization and Sepsis Control Using Laser Energy," Office of Naval Research/Beckman Laser Institute Grant, \$69,169, 1997-1999.
6. "Monitoring Insect Pests in Flour Mills, Food Warehouses and Grocery Stores," OSU OAES Food and Agricultural Products Research Initiative Program, \$28,000, 1998.
7. "Feasibility of Endoscopic-assisted Carbon Dioxide Laser Ablation of Polymethylmethacrylate from the Femoral Canal during Revision Cemented Total Hip Arthroplasty," OSU CVM Research Advisory Council, \$5,650, 1998-1999.
8. "Microwave Radiation as a Pesticide Alternative for Stored Products," United States Department of Agriculture, \$230,000, 1998-2000.
9. "Flaxseed Phytoestrogens May Positively Affect Bone," National Institute of Health, \$71,650, 1999.
10. "Enhanced Analgesia During and After Surgery in Dogs by Combining Butorphanol and Etogesic," Fort Dodge, \$55,075, 2000.
11. "Controlling Nutrient Runoff from Golf Course Fairways Using Vegetative Filter Strips," OSU OAES Targeted Research Initiative Program, \$24,000, 2000-2002.
12. "Controlling Nutrient Runoff from Golf Course Fairways Using Vegetative Filter Strips," United States Golf Association, \$75,000, 2000-2002.
13. "Laser Lithotripsy for Treatment of Canine Uroliths," ACVS Research and Education Foundation, \$9,796, 2001.
14. "Comparison of Intravenous Administration of Phenylbutazone and Flunixin," CVM Internal Grant, \$32,717, 2002.
15. "Insecticide Residues in Stored Wheat: Measurements, Estimates and Alternatives," OSU Food and Agricultural Products Research Initiative Program, \$46,000, 2002-2003.
16. "Animal Models of Cold Air-induced Airway Disease," National Institute of Health, \$867,919, 2002-2005.

17. "Phase IV Efficacy Study for the Equine Influenza Fraction of Fort Dodge Animal Health's Fluvac Innovation Double EFT Killed Virus Vaccine," Fort Dodge Animal Health, \$146,138, 2003-2004.
18. "Evaluation of Intravenous Administration of Phenylbutazone and Ketoprofen in Combination Therapy in Horses with Navicular Syndrome Using Force Plate Analysis," USA Equestrian, \$24,948, 2003-2004.
19. "A Laboratory Study to Determine the Analgesic Effect of a 1% Diclofenac Sodium Liposomal Cream Applied Topically to Horses with Chronic Navicular Syndrome," IDEXX Pharmaceuticals, \$35,475, 2003-2004.
20. "A Study to Determine the Clinically Effective Dose of Etodolac Administered Orally, Once Daily in Horses with Chronic Navicular Syndrome," Fort Dodge Animal Health, \$24,845, 2004.
21. "Nutrient and Pesticide Runoff from Golf Course Fairways Caused by Simulated and Natural Rainfall," United States Golf Association, \$90,000, 2004-2007.
22. "Force Plate Evaluation of Phenylbutazone and Flunixin Therapy in Horses," ACVIM Foundation, \$9,725, 2005.
23. "A Novel Catheter Design for Fibroblast Ingrowth Enhancement," Medical Inventions, LLC, \$16,473, 2005.
24. "Dried Plum Reverses Bone Loss in Postmenopausal Women," United States Department of Agriculture, \$366,250, 2005-2008.
25. "*Momordica charantia* Modulates Glucose and Lipid Parameters in High Fat Diet-Induced Obesity," United States Department of Agriculture, \$306,743, 2007-2009.
26. "Exercise Stress-induced Gastrointestinal Disease in Dogs," Morris Animal Foundation, \$19,175, 2008-2009.
27. "Capacity for Respiratory-based Thermoregulation in Brachycephalic Breeds," American Kennel Club Canine Health Foundation, \$12,474, 2008-2009.
28. "Mango Supplementation Will Improve Glucose Response and Clinical Parameters of Pre-diabetic Subjects," National Mango Board, \$183,368, 2011-2013.
29. "A Pilot Study Investigating the Effects of Mango Supplementation on Body Composition and Inflammatory Markers of Overweight Individuals," National Mango Board, \$140,013, 2011-2013.
30. "Effect of External Skeletal Fixation Positive-Profile Pin Insertion Speeds on Cortical Temperature and Mechanical Damage in Canine Bone With and Without Pre-Drilling," Cohn Family Foundation, \$2415, 2012-2013.

31. "Training National Needs Fellows for Application of Genomic and Computational Biology to Animal Production," USDA/NIFA NNF, \$242,500, 2013-2017.
32. "Clinical Effectiveness of Low Level Laser Therapy in Reptilian Wound Healing," CVHS Internal Grant, \$6,103, 2013.

GRANT (STATEWIDE COLLABORATIVE TEAM):

1. "Adapting Socio-Ecological Systems to Increased Climate Variability," NSF EPSCoR, \$4,000,000, 2013-2018.

PAPER PRESENTATIONS AT PROFESSIONAL MEETINGS:

1. "Three Probability Distributions," M.E. Payton*, Kappa Mu Epsilon Region IV Convention, Springfield, MO, March 14, 1986.
2. "Bounds for the Difference Between the Mean and Median of the Beta and Negative Binomial Distributions," M.E. Payton*, L.J. Willson, and J.H. Young, Biometric Society Meetings, Dallas, TX, March 23, 1987.
3. "An Urn Model for Sexual Attraction of Insects in Agroecosystems," M.E. Payton*, L.J. Willson and J.H. Young, American Statistical Association's Winter Conference, San Antonio, TX, January 7, 1988.
4. "A Graphical Analysis of Major League Baseball Salaries," D.E. Faries*, and M.E. Payton, Joint Statistical Meetings, New Orleans, LA, August 22, 1988.
5. "An Urn Model for Sexual Attraction of Insects in Agroecosystems," M.E. Payton*, L.J. Young, and J.H. Young, Joint Statistical Meetings, New Orleans, LA, August 24, 1988.
6. "A Model of Insect Sexual Preference Based on an Extension of Polya's Urn Model," L.J. Young*, J.H. Young, and M.E. Payton, Joint Statistical Meetings, Washington, D.C., August 6, 1989.
7. "The History of the Oklahoma State University Statistics Department," J.L. Folks* and M.E. Payton, Joint Statistical Meetings, Washington, D.C., August 6, 1989.
8. "An Analysis of Sequential Sampling from Discrete Distribution with More than Two Alternative Hypotheses," M.E. Payton*, L.J. Young, and J.H. Young, Joint Statistical Meetings, Washington D.C., August 10, 1989.
9. "An Examination of Sequential Sampling for Three-Hypothesis Binomial Tests," M.E. Payton*, L.J. Young, and J.H. Young, Kansas State University Conference on Applied Statistics in Agriculture, Manhattan, KS, April 30, 1990.
10. "An Examination of Sequential Tests Among Three Hypotheses," M.E. Payton*, L.J. Young, and J.P. Chandler, Joint Statistical Meetings, Atlanta, GA, August 22, 1991.

11. "Using Logistic Regression with Indicator Variables to Model the Response of Ticks to Carbon Dioxide," M.E. Payton*, Oklahoma Chapter of the American Statistical Association, Oklahoma City, OK, February 27, 1992.
12. "A Sequential Procedure to Test Three Values of a Binomial Proportion," M.E. Payton*, and L.J. Young, Joint Statistical Meetings, Boston, MA, August 10, 1992.
13. "Evaluation of Methods to Determine the Frequency of LH Pulses in Beef Cattle," J.A. Vizcarra*, R.P. Wettemann, D.K. Bishop, and M.E. Payton, American Society of Animal Science Annual Meeting, Tulsa, OK, February 3, 1993.
14. "Alfalfa Weevil as a Factor in the Competitive Interaction of Alfalfa Plants and Weeds," R.C. Berberet*, J.F. Stritzke, M.E. Payton, and M.A. Meyer, Central Alfalfa Improvement Conference, Omaha, NE, June 21, 1993.
15. "Relationship Between Field Incidence of Sclerotinia Blight and Seed Infection of Peanut with Sclerotinia Minor," H.A. Melouk*, J.P. Damicone, K.E. Jackson, J.R. Sholar, and M.E. Payton, American Peanut Research and Education Society, Huntsville, AL, July 15, 1993.
16. "Using SAS to Solve a System of Non-Linear Equations," M.E. Payton, and L.J. Young, Joint Statistical Meetings, San Francisco, CA, August 10, 1993.
17. "Morphological Alterations in Cotton Rats (*Sigmodon hispidus*) from an Abandoned Petrochemical Refinery with Emphasis on Dental Lesions," M.G. Paranjpe, C.W. Qualls, Jr.*, and M.E. Payton, Society of Environmental Toxicology and Chemistry, San Antonio, TX, November, 1993.
18. "Induction of Methoxyresorufin and Ethoxyresorufin O-dealkylation by Hepatic Microsomes of Wild Cotton Rats (*Sigmodon hispidus*) from an Abandoned Oil Refinery," C.W. Qualls, Jr.*, J.W. Lish, and M.E. Payton, Society of Environmental Toxicology and Chemistry, San Antonio, TX, November, 1993.
19. "Role of Alfalfa Weevil Infestation as a Factor Increasing Weed Interference in Alfalfa Stands," R.C. Berberet*, J.F. Stritzke, M.E. Payton, and M.A. Meyer, National IPM Symposium, Las Vegas, NV, April 16, 1994.
20. "The Value of Host Resistance in Improving Profitability of Alfalfa Forage Production," R.C. Berberet*, M.E. Payton, and C.E. Ward, Entomological Society of America, R.F. Nelson Memorial Symposium (Invited), Dallas, TX, November 23, 1994.
21. "*Zoophthora Phytonomi* Reduces Effective Parasitism of *Hypera Postica* by *Bathyplectes Curculionis*," A.D. Bisges*, R.C. Berberet, and M.E. Payton, Entomological Society of America's Annual Meeting, Dallas, TX, November, 1994.
22. "An Examination of the Distribution of the Coefficient of Variation," M.E. Payton*, and S.M. Caldwell, Joint Statistical Meetings, Orlando, FL, August 15, 1995.
23. "Using a Portable Rainfall Simulator to Evaluate Pesticide and Nutrient Runoff from Turf," J.T. Cole*, J.H. Baird, R.L. Huhnke, N.T. Basta, D.E. Storm, G.V. Johnson, M.E.

- Payton, D.L. Martin, and M.D. Smolen, American Society of Agronomy's Annual Meeting, St. Louis, MO, October 29, 1995.
24. "Evaluation of Best Management Practices to Protect Surface Water Quality from 2,4-D, Dicamba, and Mecoprop Applied to Bermudagrass [*Cynodon dactylon* (L.) Pers.] Fairways," with J.T. Cole*, J.H. Baird, N.T. Basta, R.L. Huhnke, G.V. Johnson, and M.E. Payton, Southern Weed Science Society Annual Meeting, Charlotte, NC., January 15, 1996.
 25. "Confidence Intervals for the Coefficient of Variation," M.E. Payton*, Kansas State University Conference for Applied Statistics in Agriculture, Manhattan, KS., April 30, 1996.
 26. "Round Bale Silage Losses of Ryegrass and Legume-grass Forages," R.L. Huhnke*, R.E. Muck, and M.E. Payton, American Society of Agricultural Engineering Annual International Meeting, Phoenix, AZ., July 15, 1996.
 27. "Alternative Film for Rearing Parasitoids," I.S. Aquino*, R.D. Eikenbary, and M.E. Payton, Entomological Society of America Annual Meetings, Louisville, KY., December 10, 1996.
 28. "Efficacy of Various Insecticide Treatments to Control Cotton Aphids and Prevent Economic Loss in Oklahoma in 1995," M.A. Karner*, J.R. Goodson, and M.E. Payton, Cotton Beltwide Conference, New Orleans, LA., January 9, 1997.
 29. "Influence of Buffer-strip Length and Mowing Height on Herbicide Runoff from Bermudagrass Turf," J.T. Cole, J.H. Baird*, N.T. Basta, R.L. Huhnke, G.V. Johnson, and M.E. Payton, Southern Weed Science Society Annual Meetings, Houston, TX., January 23, 1997.
 30. "New Films for Rearing Parasitoids of Boll Weevil (*Anthonomus grandis* Boheman)," I.S. Aquino*, J.D. Cate, M.E. Payton, and R.D. Eikenbary, Entomological Society of America Southwestern Branch Annual Meeting, Oklahoma City, OK., February 18, 1997.
 31. "Using Ranks to Perform Exact and Estimated Exact Statistical Tests in Designed Experiments," S.J. Richter*, and M.E. Payton, Kansas State University Conference for Applied Statistics in Agriculture, Manhattan, KS, April 27-29, 1997.
 32. "Formation of Infection Cushions on Cellophane Dialysis Membrane by *Sclerotinia Minor* in Response to Peanut," H.A. Melouk*, S.S. Aboshosha, and M.E. Payton, American Peanut Research and Education Society, San Antonio, TX, July 8, 1997.
 33. "Effect of Organic Amendments on Sclerotial Germination of *Sclerotium Rolfsii*," C. Saude*, H.A. Melouk, J.P. Damicone, and M.E. Payton, American Peanut Research and Education Society, San Antonio, TX, July 8, 1997.
 34. "Nematicide Trials on Paprika Pepper," B.A. Kahn*, J.P. Damicone, K.E. Jackson, J.E. Motes, and M.E. Payton, Annual International Conference of the American Society for Horticultural Science, Salt Lake City, UT, July 24, 1997.

35. "Reaction of Four Peanut Genotypes to *Sclerotinia Minor*," H.A. Melouk*, S.S. Aboshosha, M.E. Payton, and O.D. Smith, American Phytopathological Society Annual Meeting, Rochester, NY, August 9, 1997.
36. "Using Ranks to Perform Exact and Estimated Exact Statistical Tests in Designed Experiments," S.J. Richter*, and M.E. Payton, Joint Statistical Meetings, Anaheim, CA, August 14, 1997.
37. "Experimental Evaluation of the Ulnaris Lateralis Muscle Flap in the Dog," M.J. Soderstrom*, M.C. Rochat, W.T. Drost, R.J. Panciera, and M.E. Payton, 7th Annual American College of Veterinary Surgeons Symposium, Orlando, FL, October 19, 1997.
38. "Influence of Buffer Length and Mowing Height on Pesticide and Nutrient Runoff from Bermudagrass Turf," J.H. Baird*, N.T. Basta, R.L. Huhnke, M.E. Payton, G.V. Johnson, D.E. Storm, and M.D. Smolen, American Society of Agronomy's Annual Meeting, Anaheim, CA, October 28, 1997.
39. "Trends in Hybrid Wheat Yield in Oklahoma," J.E. Koemel, Jr.*, B.F. Carver, A.C. Guenzi, G.H. Morgan, M.E. Payton, and E.L. Smith, Crop Science Society of America Annual Meeting, Anaheim, CA, October 28, 1997.
40. "Utilizing the Charlson Comorbidity Index and Patient Characteristics to Predict Mortality of Elderly Acute Myocardial Infarction Patients," N. Sanchez*, L. Coombs, and M.E. Payton, Cooperative Cardiovascular Project Liaison Conference, Washington, D.C., November 17, 1997.
41. "The Binomial House of Representatives and Its Parameters," R. Darcy* and M.E. Payton, European Consortium for Political Research, Coventry, U.K., March 23-29, 1998.
42. "The Binomial House of Representatives and Its Parameters," R. Darcy* and M.E. Payton, Political Studies Association's Annual Meeting, Keele, U.K., April 8, 1998.
43. "A Time Series Analysis of the Effect of Vegetative Buffers on Contaminant Runoff from Bermudagrass Turf," C.A. Wilson*, M.E. Payton, E.W. Stevens, R.L. Huhnke, D.E. Storm, N.T. Basta, and J.H. Baird, Kansas State University Conference for Applied Statistics in Agriculture, Manhattan, KS, April 26-28, 1998.
44. "A Methodology for Modelling the Coefficients of Variation of Normal Populations Using Approximate Distributions," C.A. Wilson*, and M.E. Payton, Kansas State University Conference for Applied Statistics in Agriculture, Manhattan, KS, April 26-28, 1998.
45. "Utilizing the Charlson Comorbidity Index and Patient Characteristics to Predict Mortality of Elderly Acute Myocardial Infarction Patients," N. Sanchez*, L. Coombs, M.E. Payton and A. Fitzgerald, Joint Statistical Meetings, Dallas, TX, August 9, 1998.
46. "Modeling the CV of the Normal Distribution in Factorial Experiments Using Approximate Distributions," C.A. Wilson* and M.E. Payton, Joint Statistical Meetings, Dallas, TX, August 12, 1998.

47. "Teaching the Differences Between Mixed and Fixed Models Using Expected Interaction Plots," S.R. Kegler and M.E. Payton*, Joint Statistical Meetings, Dallas, TX, August 12, 1998.
48. "Best Management Practices to Reduce Nutrient and Pesticide Runoff from Turf," J.H. Baird*, N.T. Basta, R.L. Huhnke, G.V. Johnson, D.E. Storm, M.E. Payton and M.D. Smolen, American Chemical Society Annual Meeting, Boston, MA, August 23, 1998.
49. "The Binomial House of Representatives and Its Parameters," R. Darcy* and M.E. Payton, American Political Science Association Annual Meeting, Boston, MA, September 4, 1998.
50. "Nutrients in Stream Water Following Clearcut and Selection Harvesting in the Ouachita Mountains," D.J. Turton*, D.A. Marion, J. Nettles, H.O. Liechty and M.E. Payton, IUFRO Conference, Sturbridge, MA, November 8, 1998.
51. "Effect of Wheat Soilborne Mosaic on Yield and Quality of Grain from Wheat Breeder Lines," R.M. Hunger*, J. Verchot, W.C. Siegerist, L. Myers, and M.E. Payton, American Phytopathological Society Annual Meetings, Las Vegas, NV, November 8-12, 1998.
52. "Trapping to Monitor *Tribolium castaneum* in a Flour Mill," C.W. Doud*, G.W. Cuperus, P. Kenkel, M.E. Payton, and T.W. Phillips, Entomological Society of America Southwestern Branch Annual Meeting, Las Cruces, NM, February 25, 1999.
53. "Control of Aphids and Barley Yellow Dwarf by Planting Mixtures of Gaucho-Insecticide Treated and Untreated Seed," B. Olson*, R.M. Hunger, L. Singleton, and M.E. Payton, OSU Graduate Student Research Symposium, Stillwater, OK, March 23-26, 1999.
54. "Reaction of Wheat to *Rhizoctonia spp.* Isolated from Wheat and Peanut," A. Sreedharan*, R.M. Hunger, L.L. Singleton, and M.E. Payton, OSU Graduate Student Research Symposium, Stillwater, OK, March 23-26, 1999.
55. "Estimation of Forage Mass of Old World Bluestem Using Visual Obstruction Measurements," C.J. Ackerman*, H.T. Purvis, G.W. Horn, M.E. Payton, L.T. Vermeire, S.I. Paisley, and T.N. Bodine, American Society of Animal Science Annual Meeting, Indianapolis, IN, July 22, 1999.
56. "The Control of Various Species of Stored-product Insects with EHF Energy," Halverson, S.L.*, Phillips, T.W., Bigelow, T.S., Mbata, G.N., and Payton, M.E., National Methyl Bromide Alternatives Outreach Conference, San Diego, CA, November 1, 1999.
57. "Passively Transferred Viral Immunity in Newborn Calves, Rate of Antibody Decay and Effect on Subsequent Vaccination with a Multicomponent Vaccine," J. Kirkpatrick, R.W. Fulton*, L.J. Burge, W. Dubois, and M.E. Payton, Conference of Research Workers in Animal Diseases, Chicago, IL, November 7-9, 1999.

58. "Molecular Probes for Parasitism and Predation on the Greenbug," M.H. Greenstone*, Y. Zhu, Y. Chen, K.L. Giles, and M.E. Payton, Entomological Society of America Annual Meetings, Atlanta, GA, December 15, 1999.
59. "The Use of Probit Regression to Compare Lethal Dosages of Phosphine for Various Stored Grain Pest Species and Life Stages," C.R. Wright*, M.E. Payton, and T.W. Phillips, Kansas State University Conference for Applied Statistics in Agriculture, Manhattan, KS, April 30-May 2, 2000.
60. "Determining Limiting Nutrients in Lake Eucha Tributaries," V. Keyworth*, D.E. Storm, R.Lynch, D. Altom, B.E. Haggard, M. Matlock, and M.E. Payton, North American Benthological Society Annual Meeting, Keystone, CO, May 28, 2000.
61. "Sediment-Phosphorus Interactions in Lake Eucha Tributaries," Y.A. Popova, B.E. Haggard*, D.E. Storm, R.D. Tejral, M.E. Payton, North American Benthological Society Meeting, Keystone, CO, June, 2000.
62. "Sediment Chemistry in Four Northeastern Oklahoma Streams," Y.A. Popova*, B.E. Haggard, D.E. Storm, R.D. Tejral, M.E. Payton, American Society of Agricultural Engineers 93rd Annual International Meeting, Milwaukee, WI, July 9-12, 2000.
63. "Evaluation of Four Types of *Sclerotinia Minor* Inocula to Differentiate the Reaction of Peanut Genotypes to *Sclerotinia* Blight," T.R. Faske*, H.A. Melouk, and M.E. Payton, American Peanut Research and Education Society Conference, Point Clear, AL, July 11-14, 2000.
64. "Within-plant Spatial Patterns and Preferred Feeding Site of Blue Alfalfa Aphid on Susceptible Alfalfa," A.A. Zarabi*, R.C. Berberet, A.D. Bisges, and M.E. Payton, North American Alfalfa Improvement Conference, Madison, WI, July 17, 2000.
65. "The Aligned Rank as an Alternative to Traditional Ranking Methods for the Analysis of Factorial Experiments," S.R. Richter and M.E. Payton*, Joint Statistical Meetings, Indianapolis, IN, August 15, 2000.
66. "Response of Wheat Following Infestation with the Bird-cherry Oat Aphid," B.R. Olson*, R.M. Hunger, L. Singleton, and M.E. Payton, American Phytopathological Society Annual Meetings, New Orleans, LA., August, 2000.
67. "Effects of Medetomidine Premedication on Cardiorespiratory Responses and Cortisol Levels in Dogs Undergoing Ovariohysterectomy," J.C.H. Ko, R.E. Mandsager*, M.E. Payton, and E.E. Maszle, American College of Veterinary Anesthesiologists Annual Meeting, San Francisco, CA, October 11-13, 2000.
68. "Comparison of Isoflurane and Sevoflurane Chamber Induction and Recovery in Cats," J.C.H. Ko, R.E. Mandsager*, M.E. Payton, and E.E. Maszle, American College of Veterinary Anesthesiologists Annual Meeting, San Francisco, CA, October 11-13, 2000.
69. "Cooling Systems for Poultry and Livestock," R.L. Huhnke*, L.C. McCowan, S.L. Harp, and M.E. Payton, American Society of Agricultural Engineers Annual International Meeting, Sacramento, CA, July 30, 2001.

70. "Determining the Frequency and Duration of Elevated Temperature-Humidity Index," R.L. Huhnke*, L.C. McCowan, G.M. Meraz, S.L. Harp, and M.E. Payton, American Society of Agricultural Engineers Annual International Meeting, Sacramento, CA, July 30, 2001.
71. "Analgesic Effect of Preoperative Etodolac and Butorphanol Administration in Dogs Undergoing Ovariohysterectomy," T. Inoue*, J.C.H. Ko, R.E. Mandsager, M.E. Payton, D.S. Galloway, D.N. Lange, American College of Veterinary Anesthesiologists Annual Meeting, New Orleans, LA, October 10-12, 2001.
72. "Rate of Alveolar Concentration Changes in Sevoflurane, Isoflurane and Halothane Following Propofol Induction in Cats," J.C.H. Ko*, E.M. Salmon, M.E. Payton, H.D. Moore, E.E. Maszle, American College of Veterinary Anesthesiologists Annual Meeting, New Orleans, LA, October 10-12, 2001.
73. "Modeling the Accumulation and Toxicity of Cadmium in Earthworms Based Upon Soil Physical/Chemical Characteristics," K.D. Bradham*, R.P. Lanno, N.T. Basta, J. Schroder, M.E. Payton, American Society of Agronomy Annual Meetings, Charlotte, NC, October 21-25, 2001.
74. "Controlling Nutrient Runoff from Bermudagrass Fairways Using Multiple Vegetative Filter Strips," J.Q. Moss*, G.E. Bell, M.A. Kizer, M.E. Payton, N.T. Basta, H. Zhang, D. L. Martin, J. Anderson, American Society of Agronomy Annual Meetings, Charlotte, NC, October 21-25, 2001.
75. "Microwave Irradiation of Flowing Grain to Control Stored-product Insects," T.W. Phillips*, S.L. Halverson, T.S. Bigelow, G.N. Mbata, P. Rayas-Duarte, M.E. Payton, W. Halverson, S. Forester, Annual International Conference on Methyl Bromide Alternatives and Emissions Reductions, San Diego, CA, November 5-9, 2001.
76. "Vacuum for Controlling Stored-product Insects: Effects of Pressure, Temperature and Life Stage," T.W. Phillips*, G.N. Mbata, M.E. Payton, Annual International Conference on Methyl Bromide Alternatives and Emissions Reductions, San Diego, CA, November 5-9, 2001.
77. "Modeling the Accumulation and Toxicity of Cadmium in Earthworms Based Upon Soil Physical/Chemical Characteristics," K.D. Bradham*, R.P. Lanno, N.T. Basta, J. Schroder, M.E. Payton, Society of Environmental Toxicology and Chemistry Annual Meetings, Baltimore, MD, November 11-16, 2001.
78. "Comparative Pathology of Baboon and African Green Monkey α -Herpesviruses," J.W. Ritchey*, K.E. Ealey, M.E. Payton, R. Eberle, American College of Veterinary Pathologists Annual Meeting, Salt Lake City, UT, December 2-5, 2001.
79. "Cereal Aphid Predators in Oklahoma Wheat Fields: Phenology and Aggregative Numerical Responses," M.H. Greenstone*, K.L. Giles, and M.E. Payton, Entomological Society of America Annual Meetings, San Diego, CA, December 11, 2001.

80. "Encapsulation Reaction of Alfalfa Weevil Reduces Effectiveness of Biological Control with Parasites," R.C. Berberet, A.A. Zarrabi*, A.D. Bisges, and M.E. Payton, Entomological Society of America Southwestern Branch Annual Meeting, Guanajuato, Mexico, March, 2002.
81. "Correlation of Postpartum Mood Dysphorias with Various Plasma Hormone Levels," S.J. McCoy*, J.M. Beal, M.E. Payton, A.M DeMers, A.L. Stewart, K.A. Sorenson, and G.H. Watson, Endocrine Society's Annual Meeting, San Francisco, CA, June 19-22, 2002.
82. "Microwave Treatment of Flowing Grain for Disinfestation of Stored-product Insects," T.W. Phillips*, S. Halverson, T. Bigelow, G. Mbata, W. Halverson, M.E. Payton, S. Forester, P. Rayas-Duarte, 8th International Working Conference on Stored Product Protection, York, U.K., July 22-26, 2002.
83. "Low Pressure for Controlling Postharvest Insects," R. Hulasare*, T.W. Phillips, G. Mbata, M.E. Payton, 8th International Working Conference on Stored Product Protection, York, U.K., July 22-26, 2002.
84. "Within Plant Spatial Patterns and Preferred Feeding Sites of Cowpea Aphids on Alfalfa," A.A. Zarrabi, R.C. Berberet*, and M.E. Payton, North American Alfalfa Improvement Conference, Sacramento, CA, July 27th, 2002.
85. "Effect of Planting Date, Tillage and Burning of Residue on Eyespot of Winter Wheat," R.M. Hunger*, L.L. Singleton, E.G. Krenzer, R. Sidwell, and M.E. Payton, American Phytopathology Society's Annual Meeting, Milwaukee, WI, July 27-31, 2002.
86. "Comparison of Sevoflurane and Isoflurane Anesthetic Index in Unpremedicated Dogs," D.S. Galloway*, J.C.H. Ko, R.E. Mandsager, H.F. Reaugh, M.E. Payton, and E. Portillo, American College of Veterinary Anesthesiologists 27th Annual Meeting, Orlando, FL, October 10-11, 2002.
87. "Bovine Viral Diarrhea Virus (BVDV) Persistently Infected (PI) Calves: Response to Vaccinations and Diagnoses at Necropsy," R.W. Fulton*, D.L. Step, J.F. Ridpath, J.T. Saliki, A.W. Confer, B.J. Johnson, R.D. Welsh, L.J. Burge, R.V. Hawley, and M.E. Payton, American Association of Veterinary Laboratory Diagnosticians Annual Meeting, St. Louis, MO, October 17-24, 2002.
88. "Bovine Viral Diarrhea Virus (BVDV) Infections of Calves After Exposure to Persistently Infected Calves with BVDV Subtype 1b," R.W. Fulton*, R.E. Briggs, J.F. Ridpath, J.T. Saliki, A.W. Confer, D. Walker, D.L. Step, L.J. Burge, G.E. Duff, and M.E. Payton, American Association of Veterinary Laboratory Diagnosticians Annual Meeting, St. Louis, MO, October 17-24, 2002.
89. "Half-Lives of Prey DNA Detectability in Aphid Predator Guts: Influence of Predator Species, Temperature Regime, and Fragment Length," M.H. Greenstone*, Y. Chen, K.L. Giles, and M.E. Payton, Entomological Society of America Annual Meeting, Fort Lauderdale, FL, November 17-20, 2002.

90. "Within-Plant Spatial Patterns and Preferred Feeding Sites of *Aphis craccivora* Koch (Homoptera: Aphididae) on Alfalfa," A.A. Zarrabi*, R.C. Berberet, and M.E. Payton, Entomological Society of America Southwestern Branch Annual Meeting, Oklahoma City, OK, March, 2003.
91. "The Analgesic Effects of Pheylbutazone and Flunixin Maglumine as Evaluated by Force Plate Analysis in Horses with Naviculitis," R.S. Erkert*, C.G. MacAllister, and M.E. Payton, 7th Annual Phi Zeta Research Day, Stillwater, OK, March, 2003.
92. "Effects of Cave-passage Manipulation on Emergence and Status of Colonies of Endangered Gray Bats (*Myotis grisescens*)," K.W. Martin*, D.M. Leslie, Jr., M.E. Payton, W.L. Puckette, and S.L. Hensley, 50th Annual Meeting of the Southwestern Association of Naturalists, Norman, OK, April 19, 2003.
93. "The Analgesic Effects of Phenylbutazone and Flunixin Meglumine as Evaluated by Force Plate Analysis in Horses with Navicular Syndrome," R.S. Erkert*, C.G. MacAllister, M.E. Payton, Annual American College of Veterinary Internal Medicine Forum, Charlotte, NC, June, 2003.
94. "The Analgesic Effects of Pheylbutazone and Flunixin Maglumine as Evaluated by Force Plate Analysis in Horses with Navicular Syndrome," R.S. Erkert*, C.G. MacAllister, and M.E. Payton, 21st Annual ACVIM Forum, Charlotte, NC, June, 2003.
95. "Using Path Analysis to Augment Correlation Analysis and Partition the Modifying Effects of Soil Properties on Ecotoxicity," E.A. Dayton*, N.T. Basta, and M.E. Payton, Invited Paper for the Seventh International Conference on the Biogeochemistry of Trace Elements, Uppsala, Sweden, June 15-19, 2003.
96. "An Improvement to the Aligned Rank Statistic for Two-factor Analysis of Variance," M.E. Payton* and S.J. Richter, Joint Statistical Meetings, San Francisco, CA, August 3-7, 2003.
97. "Evaluation of Health Status of Calves Entering a Feedyard and Role in Feedyard Performance," R.W. Fulton*, B.J. Cook, K.S. Blood, M.E. Payton, D.L. Step, A.W. Confer, J.T. Saliki, R.D. Welsh, and L.J. Burge, Conference for Research Workers in Animal Diseases, Chicago, IL, November, 2003.
98. "Effect of Seed Size on Uniformity of Growth of Hydroponically Grown Hard Red Winter Wheat Seedlings," T.B. Trent*, B. Olson, M.E. Payton, and R.M. Hunger, American Phytopathology Society's Southern Division Meeting, Oklahoma City, OK, February, 2004.
99. "Effect of Bird Cherry Oat Aphids and Barley Yellow Dwarf Virus on Winter Wheat," T.B. Trent, R.M. Hunger*, K.L. Giles, T. Royer, and M.E. Payton, American Phytopathology Society's Southern Division Meeting, Oklahoma City, OK, February, 2004.
100. "Comparison of Topical EMLA and Local Infiltration of Lidocaine for Episioplasty in Mares," R.S. Erkert*, C.G. MacAllister, G. Campbell, M.E. Payton, R. Shawley, and C.R. Clarke, 8th Annual Phi Zeta Research Day, Stillwater, OK, March, 2004.

101. "Development and Validation of Field Level, Physically-based Phosphorus Loss Index," T. Demissie*, D.E. Storm, M.D. Smolen, H. Zhang, D. Hamilton, and M.E. Payton, ASAE/CSAE Annual International Meeting, Ottawa, ON, August 4, 2004.
102. "Potential Economic Losses Associated with Aphids Infesting Dual-Purpose Winter Wheat," K.L. Giles*, T.A. Royer, C. Krehbiel, F. Epplin, M.E. Payton, N.C. Elliott, and S.D. Kindler, Entomological Society of America Annual Meetings, Salt Lake City, UT, November 14-17, 2004.
103. "Comparative Morphology of *Reticulitermes* sp. (Isoptera: Rhinotermitidae) of Oklahoma," K.S. Brown*, B.M. Kard, and M.E. Payton, Entomological Society of America Annual Meetings, Salt Lake City, UT, November 14-17, 2004.
104. "Phosphorus Requirements for Dual-purpose and Grain Only Wheat," S.K. Kariuki*, E.G. Krenzer, H. Zhang, and M.E. Payton, American Society of Agronomy Conference, Denver, CO, November, 2004.
105. "Pathogenicity of *Sclerotium rolfsii* on Winter Wheat and Peanut," V. Choppakatla*, H.A. Melouk, R.M. Hunger, M.E. Payton, K.D. Chenault, Southern Division Meeting of the American Phytopathological Society, Little Rock, AR, February, 2005.
106. "Effect of Bird Cherry-Oat (BCO) Aphids and Barley Yellow Dwarf Virus (BYDV) on Winter Wheat," R.M. Hunger*, T.A. Royer, K.L. Giles, and M.E. Payton, American Phytopathology Society's Annual Meeting, Austin, TX, July 20-August 3, 2005.
107. "Production of Endo-Polygalacturonase by *Sclerotium rolfsii*," V. Choppakatla*, H.A. Melouk, R.M. Hunger, and M.E. Payton, American Phytopathology Society's Annual Meeting, Austin, TX, July 20-August 3, 2005.
108. "On Transformations of Count Data in Factorial and Split-unit Experiments," M.E. Payton* and S.J. Richter, Joint Statistical Meetings, Minneapolis, MN, August 8, 2005.
109. "Bovine Viral Diarrhea Viruses (BVDV) in the Feedlot: Prevalence of persistent Infections, Utilization of Diagnostic Tests, and Distribution of BVDV Subtypes 1a, 1b, 2a," R.W. Fulton*, B. Hessman, B.J. Johnson, J.F. Ridpath, J.T. Saliki, L.J. Burge, A.W. Confer, and M.E. Payton, American Association of Bovine Practitioners Annual Meeting, Salt Lake City, UT, September 22-24, 2005.
110. "Pathologic Effects of Carprofen in Pigeons (*Columbia livia*): An Avian Model," T.J. Zollinger*, C. Schiller, J.P. Hoover and M.E. Payton, American Associations of Zoo and Wildlife Veterinarians, Omaha, NE, October 16-21, 2005.
111. "Comparison of BEHAVE Predictions with Observed Fire Behavior Varying by Season and Frequency," J.C. Sparks*, R.E. Masters, D.M. Engle, G.A. Bukehofer and M.E. Payton, 23rd Fire Ecology Conference, Bartlesville, OK, October 17-20, 2005.
112. "Winter Wheat Varieties Growth Tolerance to Aluminum Toxicity," S.K. Kariuki*, H. Zhang, J.L. Schroder, J. Edwards, M.E. Payton, W.R. Raun, and B. Carver, American Society of Agronomy Conference, Salt Lake City, UT, November, 2005.

113. "Correlations Between Computer-assisted Image Analysis and Histopathology in Detecting Equine Testicular Lesions," S.M. Birch*, R.A. Pierson, U. Blas-Machodo, M.E. Payton, and G.R. Holyoak, American College of Veterinary Pathologists Annual Meeting, Boston, MA, December 3-7, 2005.
114. "Yields and Fruit Production Patterns of Eleven Eggplant Cultivars," B.A. Kahn* and M.E. Payton, Southern Region of the American Society for Horticultural Science, Orlando, FL, February 4-6, 2006.
115. "Evaluation of Three Fixatives for Reproductive biopsies in the Mare and Stallion," S. Birch*, T. Snider, M.E. Payton, and G.R. Holyoak, Society of Theriogenology Annual Meetings, St. Paul, MN, August, 2006.
116. "A Permutation Test for Compound Symmetry," T. Morris* and M.E. Payton, Joint Statistical Meetings, Seattle, WA, August 6, 2006.
117. "Resistance of Eastern Redcedar particleboard to Subterranean Termites (*Isoptera: Rhinotermitidae*)," B. Kard*, S. Hiziroglu, and M.E. Payton, Entomological Society of American Annual Meeting, Indianapolis, IN, December 10-13, 2006.
118. "A Permutation Test for Compound Symmetry," T. Morris* and M.E. Payton, OSU Graduate Student Research Symposium, Stillwater, OK, February 21-23, 2007.
119. "Effect of Repetition on Cohesiveness of Single-Sourced Documents," L. Gattis*, S. Kennison, M.E. Payton, and T. Warren, 54th Annual Conference of the Society for Technical Communication, Minneapolis, MN, May 12-16, 2007.
120. "Hematological Responses of Healthy Alpacas to Recombinant Human Granulocyte Colony Stimulating Factor," E.C. McKenzie*, C. Cebra, S.J. Tornquist, A. Villarroel, and M.E. Payton, 25th Annual Veterinary Medical Forum of the American College of Veterinary Medicine, Seattle, WA, June 6, 2007.
121. "The Effects of Oral Tramadol Alone or Concurrent with Opioid Administration on the Sevoflurane Minimum Alveolar Concentrations in Cats," J.C.H. Ko*, L.A. Abbo, A.B. Weil, B.M. Johnson, and M.E. Payton, American College of Veterinary Anesthesiologists Annual Meeting, New Orleans, LA, September 26-30, 2007.
122. "A Non-Parametric Test of the Structure of a Covariance Matrix," T. Morris* and M.E. Payton, Oklahoma Research Day, Edmond, OK, October, 2007.
123. "A Collaborative Study of M3 P Soil Test," H. Zhang*, S. Kariuki, and M.E. Payton, ASA-CSSA-SSSA International Annual Meetings, New Orleans, LA, November 4-8, 2007.
124. "Serum Total Globulin and IgA, IgE, IgG and IgM Concentrations in Alaskan Sled Dogs Participating in the Iditarod Trail Sled Dog Race," E. McKenzie*, C. Lupfer, M. Pастey, H. Banse, K. Hinchcliff, S. Nelson, M. Davis, and M.E. Payton, American College of Veterinary Internal Medicine Annual Meeting, San Antonio, TX, June 4-7, 2008.

125. "Severity of Citrus Stubborn Disease is Associated with *Spiroplasma citri* distribution within Citrus Trees," A.F.S. Mello*, R.K. Yokomi, M.E. Payton, and J. Fletcher, American Phytopathological Society Annual Meeting, Minneapolis, MN, July 26-30, 2008.
126. "The Rank Transforms and Tests of Interaction for Repeated Measures Experiments with Various Covariance Structures," J. Bryan*, and M.E. Payton, Joint Statistical Meetings, Denver, CO, August 6, 2008.
127. "Testing the Structure of a Covariance Matrix," T. Morris*, and M.E. Payton, Joint Statistical Meetings, Denver, CO, August 6, 2008.
128. "Determination and Analysis of Factors Determining the Outcomes of National Football League Games," C. Cohea, and M.E. Payton*, Joint Statistical Meetings, Denver, CO, August 6, 2008.
129. "Lung Pathology and Infectious Agents in Fatal Feedlot Pneumonias and Relationship with Animal and Treatment Information," R.W. Fulton*, K.S. Blood, R.J. Panciera, M.E. Payton, J.F. Ridpath, J.T. Saliki, L.J. Burge, A.W. Confer, R.D. Welsh, B.J. Johnson, and A. Reck, American Association of Bovine Practitioners 41st Annual Meeting, Charlotte, NC, September 25-27, 2008.
130. "Effect of Insulated Sleeve on Cold Weather Performance of Intravenous Fluid Warmers," F.E. Mayhue, S.H. Lightsey*, and M.E. Payton, American College of Emergency Physicians, Chicago, IL, October 27-30, 2008.
131. "The Half-life in Molecular Gut Content Analysis: Assumptions, Protocols, and Goodness of Fit with Data From a One-prey, Multi-predator System," M.H. Greenstone*, Z. Szendrei, and M.E. Payton, 3rd International Symposium on Biological Control of Arthropods, Christchurch, New Zealand, February, 2009.
132. "The Effect of Hetastarch on the Colloid Osmotic Pressure of Healthy Llamas," E.C. McKenzie*, K. Carney, C.A. Mosely, and M.E. Payton, International Camelid Health Conference, Corvallis, OR, March 12-15, 2009.
133. "One Year Soy Protein Supplementation Does Not Improve Lipid Profiles in Postmenopausal Women," S.C. Campbell*, D.A. Khalil, M.E. Payton, and B.H. Arjmandi, Experimental Biology 2009, New Orleans, LA, April 20, 2009.
134. "Sustainable Potato Pest Management: Molecular Gut-content Analysis of a Predator Assemblage Reveals the Effect of Habitat Manipulation on Biological control in the Field," Z. Szendrei*, M.H. Greenstone, M.E. Payton, and D.C. Weber, American Institute of Biological Sciences Annual Meeting, Arlington, VA, May 18-19, 2009.
135. "Characteristics of Three Isolates *Pyrenophora tritici-repentis* Collected from Winter Wheat in Oklahoma in 1983, 1996, and 2006," K.A. Kader*, R.M. Hunger, J.T. Edwards and M.E. Payton, American Phytopathological Society Annual Meeting, Portland, OR, August 1-5, 2009.

136. "Determination and Analysis of Factors Determining the Outcomes of National Football League Games," C. Cohea, and M.E. Payton*, Joint Statistical Meetings, Washington, D.C., August 1-5, 2009.
137. "A Modified Mantel Test for the Compound Symmetric Covariance Structure," M. Duke*, T.L. Morris, and M.E. Payton, Joint Statistical Meetings, Washington, D.C., August 1-5, 2009.
138. "The Effect of Hetastarch on the Colloid Osmotic Pressure of Healthy Llamas," E.C. McKenzie*, K.R. Romeo, C.A. Mosely, and M.E. Payton, International Veterinary Emergency and Critical Care Society, Chicago, IL, September 9-13, 2009.
139. "Comparison of Two Tonometers (TonoPen-VET and TonoPen-AVIA) in Canine Patients," J.J. Studer*, R.D. Ring, and M. E. Payton, 40th Annual Meeting of the American College of Veterinary Ophthalmologists, Chicago, IL, November 4-7, 2009
140. "Conservation Biological Control of Colorado Potato Beetles in Eastern United States," Z. Szendrei*, M.H. Greenstone, M.E. Payton, and D. Weber, Entomological Society of America Annual Meeting, Indianapolis, IN, December 13-16, 2009.
141. "Weight Loss as a Marker for Term Parturition," E. Harris*, T.K. Badzinski, S.J. Breese McCoy, and M.E. Payton, American Osteopathic Association Symposium, Oklahoma City, OK, May 6-8, 2010.
142. "Effects of Plasma and Hetastarch on Blood Colloid Osmotic Pressure and Coagulation Times in Healthy Alpacas," E.C. McKenzie*, M.E. Payton, C. Mosley, J. Riehl, R. Garret, and C.K. Cebra, American College of Veterinary Internal Medicine Forum, Anaheim, CA, June 9-12, 2010.
143. "Bovine Coronavirus Infections in Transported Commingled Beef Cattle and Sole Source Ranch Cattle," R.W. Fulton*, D.L. Step, J. Wahrmond, L.J. Burge, R. Eberle, J.M. d'Offay, A.W. Confer, B. Cook, D. Burken, and M.E. Payton, American Associate of Bovine Practitioners Annual Conference, Albuquerque, N.M., August 19-21, 2010.
144. "Impact of Fasting Duration on Blood Dantrolene Concentrations in Horses," E.C. McKenzie*, R. Garret, M.E. Payton, A.M. Firshman, and S.J. Valberg, International Conference on Equine Exercise Physiology, Cape Town, South Africa, November 7-12, 2010.
145. "Efficacy of Gastric Acid Suppression for Prevention of Exercise-induced Gastritis in Racing Alaskan Sled Dogs," K.K. Williamson*, M.D. Willard, M.S. Davis, and M.E. Payton, American College of Veterinary Internal Medicine Forum, Denver, CO, June 15-18, 2011.
146. "Utilizing the Socio-ecological Model to Evaluate Factors Affecting Older Adult's Ability to Grocery Shop, Prepare Food, and Eat," K. Korlagunta*, J. Hermann, S. Parker, and M.E. Payton, Society of Nutrition Education Annual Conference, Kansas City, MO, July 23-26, 2011.

147. "Validation of a Single Nucleotide Polymorphism Genotyping Method for *Wheat Streak Mosaic Virus*," S.M. Rogers*, M.E. Payton, R. Allen, U. Melcher, and J. Fletcher, American Phytopathological Society, Honolulu, HI, August 6-10, 2011.
148. "CBIIAT: Crop Bioagent Introduction Intent Assessment Tool Using *Wheat Streak Mosaic Virus* as a Model," S.M. Rogers, M.E. Payton, R.M. Hunger, J. Fletcher*, and U. Melcher, Defense Threat Reduction Agency 2011 Chemical and Biological Defense Science and Technology Conference, Las Vegas, NV, November 14-18, 2011.
149. "Interaction of *Salmonella* and *Erwinia tracheiphila* on Cantaloupe Rinds after Inoculation onto Natural Fruit Cracks" D. Gautum*, M.E. Payton, J. Fletcher, and L.M. Ma, Institute of Food Technologists-Oklahoma Section Research Symposium, Stillwater, OK, February 22, 2012.
150. "Removing External DNA Decontamination from Arthropod Predators Destined for Molecular Gut-Content Analysis," M.H. Greenstone*, D.C. Weber, T.A. Coudron, M.E. Payton, and J.S. Hu, Entomological Society of America Southwestern Branch, Little Rock, AR, March 4-7, 2012.
151. "Reduced Cardiac Output in Horses Anesthetized After Dantrolene Administration," E.C. McKenzie*, S. DiConetto, M.E. Payton, and M. Arko, American College of Veterinary Internal Medicine Forum, New Orleans, LA, May 30 – June 2, 2012.
152. "Prevalence of Myopathy During Equine General Anesthesia," E.C. McKenzie*, M.E. Payton, M. Arko, H. Banse, S. Reed, S. Valberg, A. Firshman, and T. Holbrook, American College of Veterinary Internal Medicine Forum, New Orleans, LA, May 30 – June 2, 2012.
153. "Comparison of Echocardiographic Measures in Elite and Non-elite Arabian Endurance Horses," M.M. Durango*, T.C. Holbrook, M.M. Sleeper, M.E. Payton, and E.K. Birks, American College of Veterinary Internal Medicine Forum, New Orleans, LA, May 30 – June 2, 2012.
154. "Evaluation of Three Gastrointestinal Protectants in a Rodent Model of Equine Cantharidin Toxicosis," H.J. Qualls*, T.C. Holbrook, L.L. Gilliam, B. Njaa, R. Panciera, C. Pope, and M.E. Payton, American College of Veterinary Internal Medicine Forum, New Orleans, LA, May 30 – June 2, 2012.
155. "Surface Survival and Internalization of *Salmonella* Through Natural Cracks on Developing Cantaloupe Fruit, Alone or in the Presence of the Plant Pathogen *Erwinia tracheiphila*," D. Gautum*, M.E. Payton, J. Fletcher, and L.M. Ma, International Association for Food Protection, Providence, RI, July 22-25, 2012.
156. "Biocontrol in Native vs. Exotic Urban Ornamental Landscapes: Colonization of Experimental Backyards by Parasitic *Hymenoptera*," M.H. Greenstone*, R.T. Olsen, M.L. Buffington, M.M. Gates, R.R. Kula, M.E. Payton, International Symposium on Biocontrol of Arthropods, Pucón, Chile, March 4-8, 2013.
157. "The Detectability Half-life in Predator-Prey Research: What it is, Why We Need it, How to Measure it, and What it's Good For," M.H. Greenstone*, M.E. Payton, D.C. Weber,

- and A.M. Simmons, 2nd International Symposium on the Molecular Detection of Trophic Interactions, Lexington, KY, May 13-17, 2013.
158. "Response to Oxalic Acid as an Assay for Sclerotinia Blight Resistance," R.S. Bennett*, K.D. Chamberlin, and M.E. Payton, American Peanut Research and Education Society Annual Meeting, Young Harris, GA, July 9-11, 2013.
 159. "Suitability of Winter Canola Aphids for Preimaginal Development of *Chrysoperia carnea* (Neuroptera: Chrysopidae) and *Hippodamia convergens* (Coleoptera: Coccinellidae)," W. Jessie*, K.L. Giles, E. Rebek, and M.E. Payton, Entomology Society of America Annual Meeting, Austin, TX, November 10-13, 2013.
 160. "Factors Influencing Grasshopper (*Orthoptera: Acrididae*) Subfamily Distribution Along a Vegetation Gradient in Northern Bobwhite Habitat," K.E. Masloski*, M.E. Payton, M.R. Reiskind, and C.M. Greenwood, Entomology Society of America Annual Meeting, Austin, TX, November 10-13, 2013.

GRADUATE STUDENTS ADVISED:

1. Mark Palko, M.S., Spring 1993, "Estimating the Number of Component Distributions in a Normal Mixture Distribution."
2. Rhonda Crites, M.S., Summer 1993, "A Comparison of Sequential Procedures for Deciding Among Three Poisson Parameters."
3. Philip Hawthorne, M.S., Summer 1994, "A Statistical Study of Data from the Eastern Oklahoma State College Summer Science Institute."
4. Sandra Caldwell, M.S., Fall 1994, "The Distribution of the Coefficient of Variation with a Review of the Noncentral t Distribution."
5. Charles Pack, M.S., Fall 1994, "A Comparison of Sequential Procedures for Deciding Among Three Negative Binomial Parameters."
6. Jacalyn Swicegood, M.S., Fall 1995, "An Examination of Time Series Analysis As It Is Used To Develop a Forecasting Model for MerCruiser's Sales Volumes."
7. Anthony Miller, M.S., Summer 1996, "Hypothesis Testing of Multiple Populations Using Individual Confidence Intervals."
8. Valerie Skaggs, M.S., Summer 1996, "A Forecasting Model for the Charles Machine Works, Inc. Sales Volumes Using Time Series Analysis."
9. Gina Ravaioli, M.S., Spring 1997, "Effectiveness of an At-Risk Program for Student Athletes and Various Comparisons of Grade Point Averages Among Student Athletes."

10. Scott Richter, Ph.D., Summer 1997, "Exact and Estimated Exact Tests for Designs Involving Interactions Using the Rank Transform."
11. Krista Crenshaw, M.S., Fall 1997, "A Transformation of the Coefficient of Variation as a Test of Normality."
12. Craig Wilson, Ph.D., Spring 1998, "An Approach to Modeling the Coefficient of Variation in Factorial Experiments." (**Graduate Research Excellence Award Recipient**)
13. Gerald Meraz, M.S., Spring 1998, "An Analysis of the Use of Evaporative Cooling for Livestock in Oklahoma."
14. Kelly Walkingstick, M.S., Fall 1998, "Transformation Effects on Factorial Experiments."
15. Claudia Wright, M.S., Spring 2000, "Probit Analysis of Mortality of Stored Grain Insects Treated with Phosphine Gas."
16. Luke Dolezal, M.S., Spring 2001, "The Development of Annual and Quarterly Sales Forecasting Models for the Charles Machine Works, Inc. Utilizing Time Series Analysis."
17. Kimberly Hale, M.S., Summer 2002, "Principal Component Analysis and Factor Analysis for Primary Care Physicians in the Medicaid Program for the State of Arkansas."
18. Vinay Cheruvu, M.S., Summer 2002, "Statistical Analyses of Two Entomological Experiments Involving Stored-Product Insects."
19. Carrie Beightol, M.S., Summer 2004, "Using Randomization Tests to Compare Faculty Salaries at Oklahoma State University to Salaries at Peer Institutions."
20. Janae Nicholson, M.S., Fall 2005, "Analysis of First Year Retention at Oklahoma State University Using Logistic Regression."
21. Tracy Morris, Ph.D., Spring 2007, "A Permutation Test for the Structure of a Covariance Matrix."
22. Chris Cohea, M.S., Spring 2008, "Applications of Logistic Regression to NFL Game Data."
23. Jennifer Bryan, Ph.D., Spring 2009, "Rank Transforms and Tests of Interaction for Repeated Measures Experiments with Various Covariance Structures."
24. Vrinda Nair, M.S., Spring 2009, "Comparing the Farm Service Data with a Sample Defined by Consistent Reporting over a Significant Time Period."
25. Ole Forsberg, Ph.D. student, topic: Developing Statistical Tools for Election Forensics.
26. Ryan Lusk, M.S. student, topic: Analysis of NBA Game Data for Prediction of Outcome.

27. David Cohron, M.S. student, topic: Analysis of the Randomization of U.S. Open Tennis Tournament Draws.

GRADUATE STUDENT COMMITTEES:

1. Robin Hickey, M.S., Entomology, Spring 1993
2. Nena Sanchez, M.S., Statistics, Summer 1993
3. Tesfaye Liranso, Ph.D., Statistics, Fall 1993
4. John Jeffrey, M.S., Animal Science, Spring 1993
5. Kerri Lane, M.S., Statistics, Spring 1994
6. Kenneth Hitch, M.S., Forest Resources, Spring 1994
7. Marc Meyer, M.S., Statistics, Summer 1994
8. Craig Wilson, M.S., Statistics, Fall 1994
9. Monica Groves, M.S., Statistics, Fall 1994
10. Jorge Vizcarra, Ph.D., Animal Breeding & Reproduction, Fall 1994
11. Bin Liu, M.S., Statistics, Summer 1995
12. Michael Gates, M.S., Entomology, Summer 1995
13. Kelly Ridgway, M.S., Statistics, Summer 1995
14. Denise Drudik, M.S., Animal Science, Fall 1995
15. Edgar Ascencio, Ph.D., Soil Science, Fall 1995
16. Ray Platt, M.S., Entomology, Spring 1996
17. Julie Sawyer, Ph.D., Statistics, Spring 1996
18. Rusydi Rusydi, M.S., Forest Resources, Spring 1996
19. Onesphore Bitoki, M.S., Forest Resources, Summer 1996
20. Carri Duvall, M.S., Statistics, Summer 1996
21. Ahmet Eren, M.S., Plant & Soil Science, Summer 1996
22. Lucy Burns, M.S., Statistics, Summer 1996

23. Micah Ward, M.S., Statistics, Fall 1996
24. Fazle Subhan, Ph.D., Crop Science, Fall 1996
25. Glade Tew, Ph.D., Business Administration, Spring 1997
26. Rebecca Moore, M.S., Statistics, Spring 1997
27. Italo Aquino, Ph.D., Entomology, Spring 1997
28. Brenda Masters, Ph.D., Statistics, Summer 1997
29. Mike Toews, M.S., Entomology, Spring 1998
30. Charles Rose, M.S., Forest Resources, Spring 1998
31. Darryl Forest, M.S., Entomology, Spring 1999
32. Laura Coombs, Ph.D., Statistics, Spring 1999
33. Latong Tang, Ph.D., Environmental Science, Spring 1999
34. Scott Kegler, Ph.D., Statistics, Spring 1999
35. Jean Nkouka, M.S., Forest Resources, Summer 1999
36. Bryan Aday, M.S., Forest Resources, Summer 1999
37. Diane Sweeney, Ph.D., Statistics, Summer 1999
38. Carl Doud, M.S., Entomology, Fall 1999
39. Bryna Donnelly, M.S., Entomology, Spring 2000
40. Joel Dowdy, M.S., Statistics, Fall 2000
41. Jason Gibson, M.S., Entomology, Fall 2000
42. Travis Faske, M.S., Plant Pathology, Fall 2000
43. Desiree' Butler-McCullough, Ph.D., Statistics, Spring 2001
44. Michael Toews, Ph.D., Entomology, Spring 2001
45. Georgia Smedley, Ph.D., Business Administration, Summer 2001
46. Richard Grantham, Ph.D., Entomology, Summer 2001
47. Sonali Padhye, M.S., Horticulture., Fall 2001

48. Mary Roduner, M.S., Entomology, Fall 2001
49. Owen Price, M.S., Entomology and Plant Pathology, Spring 2002
50. Jong Min Kim, Ph.D., Statistics, Spring 2002
51. Matthew Harris, M.S., Statistics, Spring 2002
52. Tamara Lukens, M.S., Agricultural Economics, Summer 2002
53. William Lints, M.S., Environmental Science, Summer 2002
54. Norberto Ciccioli, Ph.D., Animal Breeding & Reproduction, Summer 2002
55. Karen Bradham, Ph.D., Environmental Science, Fall 2002
56. Kenneth Brown, M.S., Entomology and Plant Pathology, Fall 2002
57. Kaushalya Amarasekare, M.S., Entomology and Plant Pathology, Fall 2002
58. Amy Wagler, M.S., Statistics, Spring 2003
59. Catarina Saude, Ph.D., Plant Pathology, Summer 2003
60. Tererai Trent, M.S., Plant Pathology, Spring 2003
61. Elizabeth Dayton, Ph.D., Soil Science, Fall 2003
62. Solomon Kariuki, M.S., Plant & Soil Science, Fall 2003
63. Adam Ryburn, Ph.D., Plant Science, Fall 2003
64. Matt Stacey, M.S., Entomology and Plant Pathology, Spring 2004
65. Stephen Garvin, M.S., Entomology and Plant Pathology, Summer 2004
66. Ali Bagour, Ph.D., Statistics, Summer 2004
67. Qin Zhong, M.S., Statistics, Fall 2004
68. Jesse Eiben, M.S., Entomology and Plant Pathology, Fall 2004
69. Makuena Lebusa, M.S., Entomology and Plant Pathology, Fall 2004
70. Getachew Animut, Ph.D., Animal Nutrition, Fall 2004
71. Do Yu Soung, Ph.D., Human Environmental Sciences, Fall 2004
72. Yanrong Wang, M.S., Statistics, Summer 2005

73. Peter Edde, Ph.D., Entomology, Fall 2005
74. Douglas Jones, Ph.D., Entomology, Fall 2005
75. Kenneth Brown, Ph.D., Entomology, Fall 2005
76. Mukul Patki, Ph.D., Industrial Engineering and Management, Fall 2005
77. Audrey Sheridan, M.S., Entomology and Plant Pathology, Spring 2006
78. Chris Meador, Ph.D., Plant Pathology, Summer 2006
79. Chakra Budhathoki, Ph.D., Environmental Science, Summer 2006
80. Bin Gu, M.S., Statistics, Summer 2006
81. Vijay Choppakatla, Ph.D., Plant Pathology, Fall 2006
82. Jerry Bowen, Ph.D., Entomology, Spring 2007
83. Keneueo Lehloenya, Ph.D., Animal Nutrition, Summer 2007
84. Solomon Kariuki, Ph.D., Soil Science, Summer 2007
85. Charles Sabatia, M.S., Forest Resources, Summer 2007
86. Kishan Sambaraju, Ph.D., Entomology, Summer 2007
87. Amy Wagler, Ph.D., Statistics, Fall 2007
88. Day Ligon, Ph.D., Zoology, Fall 2007
89. Ying Zhang, M.S., Statistics, Spring 2008
90. Cyrus Sepoy, M.S., Veterinary Biomedical Sciences, Spring 2008
91. Mukti Ghimire, Ph.D., Entomology, Spring 2008
92. Pauline Aad, Ph.D., Animal Breeding & Reproduction, Spring 2008
93. Matthew Smith, M.S., Entomology and Plant Pathology, Spring 2008
94. Nabin Gyawali, M.S., Forest Resources, Summer 2008
95. Andrine Morrison, Ph.D., Entomology, Summer 2008
96. Rebecca Pierce, M.S., Statistics, Fall 2008
97. Sharla Birch, M.S., Veterinary Biomedical Sciences, Fall 2008

98. Guohui Yang, M.S., Statistics, Spring 2009
99. Monica Prado Ortega, Ph.D., Animal Breeding & Reproduction, Spring 2009
100. Manuel Campos, Ph.D., Entomology, Spring 2009
101. Gina Kraft, Ph.D., Health, Leisure & Human Performance, Summer 2009
102. Leila Zelnick, M.S., Statistics, Summer 2009
103. Afework Bezabih, Ph.D., Human Environmental Sciences, Fall 2009
104. Kazi Kader, Ph.D., Plant Pathology, Spring 2010
105. Michael Brown, M.S., Entomology and Plant Pathology, Spring 2010
106. Ngan Nguyen, Ph.D., Entomology, Fall 2010
107. Sabrina Cummings, Ph.D., Veterinary Biomedical Sciences, Fall 2010
108. Casey McMurphy, Ph.D., Animal Nutrition, Spring 2011
109. Tonya Dunn, M.S., Environmental Science, Spring 2011
110. Jack Knorr, M.S., Statistics, Summer 2011
111. Qin Pan, M.S., Statistics, Summer 2011
112. Shawna Hughes, M.S., Food Science, Summer 2011
113. Kyuseong Wee, M.S., Statistics, Fall 2011
114. Neila Sackett, Ph.D., Educational Psychology, Fall 2011
115. Gary Hatfield, Ph.D., Statistics, Fall 2011
116. Ahmed Abd-Elmagid, Ph.D., Plant Pathology, Summer 2012
117. Casi Jessie, M.S., Entomology and Plant Pathology, Summer 2012
118. Matt Albright, Ph.D., Environmental Science, Summer 2012
119. Donna Ria Caasi, Ph.D., Plant Pathology, Summer 2012
120. Lauren Brush, M.S., Veterinary Biomedical Sciences, Fall 2012
121. Rajiv Bhattarai, M.S., Statistics, Fall 2012
122. Su Chen, Ph.D., Statistics, Spring 2013

123. Jordan Crabbe, Ph.D., Statistics, Spring 2013
124. Brittany Reyes, Ph.D., Educational Psychology, Summer 2013
125. Matthew Smith, Ph.D., Entomology
126. Anita Smith, Ph.D., Entomology
127. Amani Soliman, Ph.D., Human Environmental Sciences
128. Nicholas Kaukis, M.S., Statistics
129. Shelley Mitchell, Ph.D., HLHP
130. Erni S. Murtini, Ph.D., Food Science
131. Will Jessie, Ph.D., Entomology
132. David Supeck, Ph.D., Biomedical Sciences
133. Pavalee Chompoorat, Ph.D., Food Science
134. Xuesong Li, Ph.D., Statistics
135. Allison Giguere, M.S., Entomology and Plant Pathology
136. Kenneth Masloski, M.S., Entomology and Plant Pathology
137. Charlie Konemann, M.S., Entomology and Plant Pathology
138. Yimin Zhang, Ph.D., Statistics
139. Luke Weinbrecht, Ph.D., Education
140. Ana Tehrani, M.S., Statistics
141. Tom Ferrari, M.S., Entomology and Plant Pathology
142. Kellen Myers, Ph.D., Biomedical Sciences
143. Mary Ferguson, M.S., Entomology and Plant Pathology
144. Sunny Evans, M.S., Entomology and Plant Pathology
145. Shane McMurry, M.S., Entomology and Plant Pathology
146. Manushree Bharadwaj, Ph.D., Veterinary Biomedical Sciences
147. Kate Weinbrecht, Ph.D., Forensic Sciences

HONORS AND AWARDS:

Elected Member of the International Statistical Institute, 2009.

Named Fellow of the American Statistical Association, 2004.

Selected to “Who’s Who in Sciences Higher Education,” 2004.

Selected to “Who’s Who in America,” 2003.

Elected National President of Mu Sigma Rho, National Statistical Honor Society, 1997-2000.

Named Fellow of the Royal Statistical Society, 2000.

Finalist for OSU Phoenix Faculty Award for Graduate Level Teaching, 2002.

Received the ASA Consulting Section’s Travel Award, 1998.

Received the Carl E. Marshall Award for the Outstanding Ph.D. Graduate in Statistics for the 1991 Calendar Year.

Received OSU’s ASA award for the 1990 and 1991 Calendar Years.

Received the Robert D. Morrison Award for the Outstanding M.S. Graduate in Statistics for the 1988 Calendar Year.

Received Oklahoma State University Foundation Fellowship, 1986-1987.

Received Kappa Mu Epsilon Merit Award for the Outstanding Mathematics Student of the Year, (MSU), 1985-1986.

Received Outstanding Mathematics Presentation Award at the Kappa Mu Epsilon Regional Convention, Springfield, MO, 1986.

PROFESSIONAL INVOLVEMENT AND ACTIVITIES:

American Statistical Association

Served on ASA Committee for Filming Distinguished Statisticians, 2006-2010.

Served as ASA Project Competition Judge, 2007 - 2008.

Chair and organizer of ASA Stat Bowl, 2002-2006.

Nominated for Executive Committee, ASA Section on Statistical Consulting, 1999.

Chair and organizer of invited paper session: “Statistics Curricula for Training Future

Consultants” at Joint Statistical Meetings, 1998.

Chair of invited paper session: “Modeling Agricultural Systems” at Joint Statistical Meetings, 1997.

Served on the ASA Distinguished Statisticians Videotape Project, 1995-2006.

Served on the ASA Advisory Committee on Continuing Education, 1993-1998.

Nominated for Executive Committee, ASA Section on Statistical Consulting, 1995.

Nominated for Publications Officer, ASA Section on Statistical Consulting, 1994.

Served as President and President-elect of the Oklahoma Chapter of ASA, 1991-1993.

Served on Oklahoma Chapter of ASA Board of Governors, 1992-present.

Mu Sigma Rho – the National Statistical Honor Society

Elected to National Board of Directors, 2007-2010.

Chair of Mu Sigma Rho Statistical Education Award Committee, 2000-2003.

Served as National President, 1997-2000.

Organizer of Mu Sigma Rho College Bowl, Joint Statistical Meetings, 1996-1999.

Served as Moderator, Mu Sigma Rho College Bowl, Joint Statistical Meetings, 1996.

Chapter President, 1988-1990.

University Statisticians of Southern Experiment Stations (USSES) (IEG-13)

Served as Chair, USSES and NCR-170, Oklahoma City, 1998.

Served as USSES Secretary, 1995.

Served as Program Chair, USSES, Nashville, TN, 1993.

Served as Discussion Leader, USSES, Nashville, TN, 1993.

OSU

Served on OSU Instruction Council, 2006-2010.

Served on OSU Assessment Council, 2006-2010.

Served on OSU Professional Education Council, 2006-2008.

Served on OSU School of International Studies Executive Committee, 2006-2010.

Served on OSU Faculty Council Budget Committee, 2005-2006.

Elected Vice Chair of OSU Athletic Council, 2004-2006.

Served as Chair of the Committee for Equity, Welfare, and Sportsmanship, OSU Athletic Council, 2004-2006.

Served on A&S College Policy & Planning Committee, 2004-2006.

Served on OSU Athletic Council, 2004-2006.

Elected Chair and Vice-Chair of Arts & Science Faculty Council, 2002-2004.

Served as A&S Faculty Council Liaison to University Faculty Council, 2002-2003.

Chaired A&S College Policy & Planning Committee, 2001-2002.

Served on Research Council, 2000-2001.

Served on Phoenix Award Committee, 1999.

Served on Graduate Activity Funding Allocation Process Committee, 1999-2001.

Served as Graduate and Professional Student Association Faculty Co-advisor, 1999-2001.

Elected President/Vice President of Sigma Xi, 1999-2001.

Elected Secretary of Sigma Xi, 1997-1999.

Served on Group III Membership Committee, Graduate Faculty Council, 1997-1999.

Served on College of Agriculture Accountability Research Committee, 1996-1997.

Served as Chair, Sigma Xi Membership Committee, 1996-1997.

Served on Sigma Xi Nominations Committee, 2001-2004.

Served as Sigma Xi Departmental Representative, 1996-2002.

Served on University Scholarship Committee, 1996-1999.

Served as Alpha Volunteer, 1996-2001.

Chaired Arts and Sciences Rules and Procedures Committee, 1996-1997.

Served on Department of Entomology's Personnel Search and Screen Committee, 1996.
Elected to Membership Committee, Sigma Xi Scientific Research Society, 1995-1997.
Served on Arts and Sciences Faculty Council, 1994-1997, 2001-2004.
Elected Secretary of Arts and Sciences Faculty Council, 1995-1996.
Nominated for Vice-Chair of Arts and Sciences Faculty Council, 1995.
Chaired Arts and Sciences Scholarship Committee, 1994-1995.
Served as Judge, Oklahoma State Science and Engineering Fair, 1993-2001.
Served as Judge, International Science and Engineering Fair, 1998.
Served on Planning Committee for Ph.D. Program in Plant Science, 1993.
Served as Coach, OSU College Bowl Team, 1994.
Served as Moderator for OSU College Bowl, 1991-1994.

OSU Department of Statistics

Chair, Curriculum Committee, 2001-present.
Chair, Personnel Committee, 1997-2006, 2007-2009.
Chair, Network Committee, 1994-1998.
Chair, Seminar Committee, 1991-1994.
Served on Graduate Committee, 1991-1994.
Served on Space Committee, 1992-1994.
Served on Curriculum Committee, 1992-present.
Served on Personnel Committee, 1993-present.
Served on Seminar Committee, 1991-1994, 1997-1999.
Served on Computing Committee, 1998-1999.
Served on Program Review Committee, 1998-2001.

General Service

Associate Editor, *Environmental Entomology*, 2006-present.

Member, Editorial Board, *BioScience*, 2001-2004.

PROFESSIONAL ORGANIZATIONS AND HONORARY SOCIETIES:

International Statistical Institute, American Statistical Association, Mu Sigma Rho, Royal Statistical Society, Sigma Xi, University Statisticians from Southern Experiment Stations, Phi Kappa Phi, Kappa Mu Epsilon, Sigma Pi Sigma, American Association for the Advancement of Science, American Institute of Biological Sciences, Phi Zeta (Honorary).

COMMUNITY SERVICE

Stillwater Centennial Rotary Club (President, Treasurer, Sergeant-at-Arms, Board of Directors), Big Brothers Big Sisters of Stillwater Fundraiser, St. Jude's Children's Hospital Fundraiser, First United Methodist Church of Stillwater, Stillwater Career Paths Fair Volunteer, Stillwater Public Schools Long Range Planning Committee Chair, Stillwater Junior High Student of the Month Committee Chair, YMCA Youth Sports Coach, Stillwater Parks & Recreation Coach

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