

**CURRICULUM VITAE**  
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**EDUCATION:**

B.S. (1978) Fisheries and Wildlife Biology, Iowa State University  
M.S. (1983) Entomology, South Dakota State University  
    Dr. David Walgenbach, Advisor; Thesis title: *The sunflower moth and its impact on cultivated sunflowers in Eastern South Dakota.*  
Ph.D. (1991) Entomology, Texas A&M University  
    Dr. Jonathan Edelson and Dr. Marvin K. Harris, Co-advisors; Dissertation title:  
    *Bionomics of poplar petiolegall aphid (Homoptera: Pemphigidae) on crucifer.*

**PROFESSIONAL EXPERIENCE:**

Professor (2008-) and IPM Coordinator (2006-); Associate Professor (2003-2008); Assistant Professor (1997-2003) and Extension Entomologist: Department of Entomology and Plant Pathology, Oklahoma State University.  
Extension Educator, IPM (1991-1997): University of Illinois Cooperative Extension Service.  
Graduate Research Assistant (1987-1991): Department of Entomology, Texas A&M University.  
Research Associate (1984-1987): Texas Agricultural Experiment Station, Weslaco.  
Graduate Research Assistant (1980-1983): Plant Science Department, SDSU, Brookings.

**MEMBERSHIPS IN PROFESSIONAL SOCIETIES:**

Entomological Society of America  
International Society of Crop Protection Sciences  
American Institute of Biological Sciences  
Society of Southwestern Entomologists  
Regional Projects: SERA-003, WERA-66  
Southwest Wheat Research and Education Consortium

**PRESENT ASSIGNMENT:** 90% Extension, 10% Research

**GRANTS:** (Grants in **Bold letters** developed while at OSU)**Funded****As Principal Investigator (\$2,139,253.00)**

- \$303,200.00** Industry Grants in Aid, 1997-2016. PI: T. Royer.
- \$298,159.00** Development of a research-based, user-friendly, rapid scouting procedure for the invasive sugarcane aphid, *Melanaphis sacchari*, in sorghum. USDA NIFA Crop Protection and Pest Management Program. PI: Royer, T. CoPI: N.C. Elliott, A. Knutson, R. Boling, N. Seiter, S. Brown and B. McCornack. 2015-2018.
- \$342,000.00** Support for IPM Priorities for IPM Oklahoma! USDA NIFA EIPM Coordination and Support. PI: Royer, T. CoPI: A. Post, J. Bushong, K. Giles, G. Peek, J. Beldon, J. Vogel, E. Rebek, G. Opit, R. Boman, J. Lee. 2014-2016.
- \$94,500.00** IPM Oklahoma! Implementing IPM in agronomic crops, animal agriculture, specialty crops and housing. PI: Royer, T. CoPI: A. Post, J. Bushong, K. Giles, G. Peek, J. Beldon, J. Vogel, E. Rebek, G. Opit, R. Boman. 2013.
- \$12,481.00** Determine control of foliage-feeding caterpillars and incidence of other sporadic insect pests on winter canola. Oklahoma Oilseed Commission. 2012-2013. PI: T.A. Royer. CoPI: K. Giles.
- \$10,000.00** Evaluation of insecticide oversprays for control of bollworms in transgenic Bt Cotton: OK. Cotton Inc. 2012-2013. Subcontract with Texas A&M, (PI: T. Royer and J. Goodson).
- \$6,493.00** Determine control of foliage-feeding caterpillars and incidence of other sporadic insect pests on winter canola. Oklahoma Oilseed Commission. 2011-2012. PI: T.A. Royer. CoPI: K. Giles.
- \$649,975.00** Request for Support of Oklahoma State University's IPM Program, IPM Oklahoma! 2010-2013. NIFA Extension IPM Coordination and Support Program. PI: T.A. Royer. CoPI: J. Armstrong, J. Criswell, J. Edwards, K. Giles, J. Goodson, D. Hillock, K. Kelsey, C. Luper, T. Osborn, T. Peeper, T. Pitts, E. Rebek, K. Rebek, B. Sanders, K. Shelton, J. Talley.
- \$14,015.00** Development of a Pest Management Strategic Plan for the Oklahoma Winter Wheat Industry. 2010-2011. PI: T. Royer
- \$178, 254.00** Request for Support of High-Priority EIPM Coordination Programs for IPM Oklahoma 2009. NIFA Extension IPM Coordination and Support Program. PI: T. Royer. CoPI: J. Armstrong, J. Criswell, J. Edwards, K. Giles, J. Goodson, D. Hillock, C. Jones, K. Kelsey, C. Luper, T. Osborn, T. Peeper, T. Pitts, E. Rebek, K. Rebek, B. Sanders, K. Shelton, J. Talley. 2009-2010.
- \$15,300.00** Wheat Pest Complex Survey, 2008. APHIS CAPS Program. PI: T. Royer.
- \$29,580.00** US Fish and Wildlife Service Cooperative Agreement. 2007-2008. Biological Control of Salt Cedar at the Great Salt Plains Wildlife Refuge. PI: T. Royer.
- \$50,900.00** US EPA Pesticide Environmental Stewardship Program. 2007-2008. Expanding Implementation of IPM in Oklahoma Public Schools and Introducing IPM in Oklahoma's Native American Schools. PI: T. Royer, CoPI: Doug Jones.
- \$20,000.00** Centennial Scholars Program, Oklahoma State University. 2006. PI: K. Kelsey and T. Royer.
- \$28,000.00** Golf Course Superintendents Association, Oklahoma Turf Research Foundation, and the Oklahoma Golf Course Superintendents Association. 2005 -2007. Evaluating the occurrence, seasonal history, species composition, and impact of *Phyllophaga* and *Cyclocephala* grubs infesting Oklahoma golf course turfgrasses PI: T. Royer, CoPI: N. Walker, G. Bell.

\$3,625.00	Oklahoma Turf Research Foundation. 2004. Turf Insect Research.
\$15,600.00	USDA/CREES Southern Region IPM Program. 2003-2005. Evaluating sampling and management strategies for wheat insect pests and the introduction & demonstration of “Glance n’ Go” sequential sampling for greenbugs in winter wheat. PI: T. Royer, M. Karner.
\$35,000.00	USDA-APHIS Cooperative Agreement. 2002. Grasshopper Management. PI: T. Royer.
\$5,125.00	Oklahoma State University IPM Grants. 2000. Evaluating management strategies and a demonstration of presence/absence scouting for cereal aphids and their natural enemies. PI: T. Royer, G. Krenzer.
\$6,000.00	Oklahoma State University IPM Grants. 2000. Crop Statement. T. Royer, P. Mulder, J. Stiegler.
\$24,290.00	Oklahoma Department of Agriculture. 1997-1998. Wheat management and improved pesticide application. PI: T. Royer Co PI: J. Criswell, B. Hunger, G. Krenzer, R. Gribble, and K.M. George.
\$20,000.00	Oklahoma Wheat Commission. Wheat Production Handbook. 2000. PI: T. Royer, Co PI: G. Krenzer, and B. Hunger.
\$6,000.00	Illinois Department of Agriculture. 1994-1995. Development of Research Plots, Henry White Research Farm, Milstadt, IL. PI: T.A. Royer.
\$5,616.00	USDA, Extension Service. USDA Integrated Pest Management Program, Special Projects. 1992-1993. A Master Gardener program for small-scale, on-site evaluations of alternative vegetable production systems. PI: T.A. Royer
\$140.00	Texas A&M Association of Former Students, Graduate Student Mini-Grants. Doctoral Research.

**As Co-Investigator or Collaborator (\$5,206,196.00)**

\$33,000.00	United Sorghum Checkoff Program: 2015. Control of sugarcane aphid. PI: Ali Zarrabi. Co-PI: T. Royer, K. Giles.
\$20,000.00	Syngenta. Genetic evaluation of corn to Southwestern corn borer. 2016. PI: A. Zarrabi. CoPI: T. Royer K. Giles.
\$209,451.00	Expanding Acres & Improving Winter Canola Production in the Southern Great Plains: A Systems Approach from Planting to Post-Harvest. 2016. PI: Post, A. CoPI: R. Kochenower, C. Jones, J. Bushong, J. Warren, B. Arnall, K. Giles, T. Royer, P. DeLaune, C. Neely, J. Bell and J. Damicone (my portion: ca. \$13,000).
\$872,000.00	NRCS Conservation Innovation Grant. 2014-2016. PI: Warren, Jason. CoPI: B. Arnall, H. Zhang, R. Taylor, Jeff Edwards, A. Post, J. Damicone, R. Hunger and T. Royer. On Farm Soil Health Management Systems Demonstration program for the Southern Plains. (my portion \$59,874.00)
\$170,000.00	Southern IPM Center. Integrated Management of Mite-Vectored Virus Diseases of Wheat. 2013-2015. PI: C. Rush, F. Workneh, J. Price, E. Bynum, K. Ledbetter, R. Hunger, T. Royer and B. McCornack.
\$12,000.00	U.S. Department of Housing and Urban Development and the National Institute of Food and Agriculture Healthy Homes Partnership Grant. “The little itch that won’t go away: Bed bugs in Oklahoma publically funded housing. 2012. PI: G. Peek and T. Royer.
\$50,000.00	US EPA. 2012. Investigation of insecticide removal and aquatic health benefits of bioretention cells receiving nursery runoff. PI: Beldon, J. CoPI: E. Rebek and T.A. Royer.

- \$112,047.00** NIFA Critical Issues Program: 2011-2013 Time-critical assessment of potential distribution of the Bagrada bug (*Bagrada hilaris*), a new and emergent crop plant pest in the United States. PI: Papes, M. CoPI: T. Perring, T.A. Royer.
- \$154,000.00** NIFA: 2012. Maintaining momentum of expanding Southern Plains winter canola acres. PI: Godsey, C. CoPI: K. Giles, J. Damicone, T. Royer, M. Boyles, R. Taylor, TAMU.
- \$1,929,861.00** NIFA Risk Avoidance and Mitigation Program 2010-2013. iWheat: A Web-based IPM Information and Delivery System to Unify Reduced Risk Management Strategies for Winter Wheat in the Central and Southern Plains. PI: Giles, K. Co PI: N.C. Elliott, T.A. Royer, R. Hunger, F. Epplin, G. Purtuka, J. Armstrong, B. McCornack, M. Chen, R. Whitworth, F. Peairs, G. Michels, A. Knutson, J. Bradshaw.
- \$82,420.00** US EPA Pesticide Environmental Stewardship Program. 2009-2011. Delivery, validation and evaluation of a reduced risk winter canola aphid pest management program. PI: Giles, K, Co PI: Sanders, H., Royer, T.A., Godsey, C., Elliott, N.
- \$225,731.00** NRCS, Conservation Innovation Grants. 2008-2011. An innovative approach to conservation and integrated pest management in Oklahoma cropping systems. J. Edwards, R. Kochenower, G. Strickland, K. Giles and T. Royer
- \$171,932.00** USDA-PMAP. 2007-2009. Implementation and economic evaluation of the Glance 'n Go greenbug+parasitism sampling and management plan on winter wheat in KS, OK, and TX. Giles, K, T. Royer, F. Epplin, A. Knutson, G. Michels, R. Bowling, P. Sloderbeck, J. Whitworth and N. Elliott.
- \$8,500.00** Oklahoma Wheat Commission. 2006-2007. WIT Team participation with Carver et al. Insect Resistance & Development of Insect-Resistant Germplasm. K. Giles and T. Royer.
- \$6,000.00** Oklahoma Wheat Research Foundation. 2006-2007. Evaluating varietal and chemical control of Hessian fly. K. Giles and T. Royer.
- \$11,000.00** USDA/NCRP. 2006-2007. Development of valid sampling approaches for aphid pests of winter canola. K. Giles, T. Royer and N.C. Elliott.
- \$56,241.00** US EPA Strategic Agricultural Initiative. 2004-2006. Validation of a sampling plan for classifying cereal aphid parasitism levels and predicting population suppression in winter wheat. PI: K. Giles. CoPI: N. Elliott, T. Royer.
- \$12,600.00** Oklahoma Wheat Research Foundation. 2004-2006. Effects of rice root aphid infestations on wheat forage yield and quality in Oklahoma. PI: K. Giles. CoPI: R. Hunger, C. Krehbiel, T. Royer, N. Elliott, S.D. Kindler.
- \$4,000.00** Oklahoma Wheat Research Foundation. 2004. Economic thresholds for aphids on wheat forage. PI: K. Giles. CoPI: R. Hunger, C. Krehbiel, T. Royer, N. Elliott, R. Sidwell.
- \$6,300.00** Oklahoma Wheat Research Foundation. 2004-2005. Effects of rice root aphid infestations on wheat forage yield and quality in Oklahoma. PI: K.L. Giles, CoPI: R. Hunger, Royer, T. A., and C. Krehbiel, N. C. Elliott, and S. D. Kindler.
- \$10,000.00** USDA-APHIS. 2004. Survey for strains of barley yellow dwarf virus in Oklahoma. Western Region Cooperative Agricultural Pest Survey. PI: R. Hunger, CoPI: B. Olson, P. Bolin and T. Royer.
- \$14,300.00** USDA-APHIS. 2003. Survey for strains of barley yellow dwarf virus in Oklahoma. Western Region Cooperative Agricultural Pest Survey. PI: R. Hunger, CoPI: B. Olson, P. Bolin and T. Royer.
- \$15,000.00** USDA-APHIS-NBCI. 2002-2003. Introduction of the introduced parasitic mite *Aceria malherbae* into southwestern Oklahoma for the suppression of field bindweed and evaluation of its limits of adaptation. PI: T.F. Peeper, Co PI: C.R. Medlin, K.L. Giles, T.A. Royer, P. Bolin, and M.S. Gregory.

\$12,900.00	USDA-APHIS-NCBI. 2002. Evaluating natural enemy thresholds for greenbug management in wheat. PI: K.L. Giles, Co PI: T.A. Royer, and G. Gilbert.
\$5,500.00	Oklahoma State University IPM Grants. 2002. Economic thresholds for aphids on wheat forage. PI: K. Giles, Co PI: N.C. Elliott, R. Gribble, R. Hunger, C. Krehbiel, and T. Royer.
\$459,570.00	USDA-ARS. Areawide Pest Management Program. 2001-2006. Biologically intensive areawide IPM of the Russian Wheat Aphid and greenbug. Elliott, N.C. et al. (\$2,497,600.00 total).
\$127,536.00	USDA/CREES Southern Region IPM Program. 1999-2001. Grazing winter wheat for aphid, disease and weed management. PI: K Giles, Co PI: G. Michels, G. Krenzer, R. Hunger, T. Royer, T. Peeper, G. Horn, J. Verchot.
\$35,000.00	Oklahoma Wheat Commission. 1999-2000. Biological control of field bindweed. PI: T. Peeper, Co PI: K.L. Giles and T. Royer.
\$160,114.00	Oklahoma Center for the Advancement of Science and Technology (OCAST). 1997-1999. A Greenbug IPM Decision Support System for Wheat. PI: G. Cuperus; Co PI: N. C. Elliott, S. D. Kindler, T. Royer, and K. Giles.
\$86,047.00	USDA/CSREES Special Research Grants Program - Pest Management Alternatives Research. 1998-2000. Quantification, integration, and validation of natural enemy thresholds for greenbug management in wheat. PI: K. Giles, G. Cuperus, N. C. Elliott, and T. Royer.
\$20,000.00	Oklahoma State University, Targeted Research Initiative Program. 1997-1998. Optimization of Control of Barley Yellow Dwarf and Aphids. PI: B. Hunger, J. Sherwood, and T. Royer.
\$97,200.00	USDA CSRS/ES. North Central IPM Research and Extension Initiative. 1994-1997. Alfalfa Weevil and Potato Leafhopper Management in Livestock/Alfalfa Systems. PI Missouri: W. C. Bailey, Co PI: G. S. Smith, J. L. Garrett; PI Illinois: E. J. Armbrust, Co-PI: T.A. Royer, and D. B. Fischer.
\$1,500.00	University of Illinois, IPM Special Grants. 1995. Woody Ornamental Scouting Program. Co PI: John Lloyd, Fred Miller, and T.A. Royer..
\$14,446.00	USDA, Extension Service. USDA Integrated Pest Management Program, Special Projects. 1992-1993. Demonstration of optimum pest management practices for crucifers in Illinois. PI: R. Weinzierl. Co PI: D. Eastburn, J. Masiunus, T.A. Royer, C. C. Doll, and W. Whiteside.

**JOURNAL PUBLICATIONS WITH PEER REVIEW:** (Articles in **Bold letters** written at OSU)

**As First Author**

1. Royer, T.A., B. Pendleton, N.C. Elliott and K.L. Giles. 2015. Greenbug (Hemiptera: Aphididae) biology, ecology and management in wheat and sorghum. *Journal of Integrated Pest Management*. 6 (1): 19; DOI: 10.1093/jipm/pmv018
2. Royer, T.A., N.C. Elliott, K.L. Giles and S.D. Kindler. 2011. Field efficacy of wintertime insecticide applications against greenbugs, *Schizaphis graminum* (Rondani) (Hemiptera: Aphididae) on winter wheat (*Triticum aestivum* L.) *Crop Protection* 30:826-832.
3. Royer, T.A., K. L. Giles, M.M. Lebusa and M. E. Payton. 2008. Preference and suitability of greenbug, *Schizaphis graminum* (Hemiptera: Aphididae) parasitized by *Lysiphlebus testaceipes* (Hymenoptera: Braconidae) as a food source for *Coccinella septempunctata* and *Hippodamia convergens* (Coleoptera: Coccinellidae). *Biological Control* 47: 82-88
4. Royer, T.A., K.L. Giles, T. Nyamanzi, R. Hunger, E.G. Krenzer, N.C. Elliott, S.D. Kindler, and M. Payton. 2005. Economic evaluation of the effects of planting date and application rate of

- imidacloprid for management of cereal aphids and barley yellow dwarf in winter wheat. *J. Econ. Entomol.* 98: 95-102.
5. Royer, T.A. and N. Walker. 2004. Survival of black cutworm larvae and observations on larval predation by *Solenopsis molesta* in a turfgrass ecosystem. *Southwest. Entomol.* 29: 31-38.
  6. Royer, T.A., K.L. Giles, S.D. Kindler, and N.C. Elliott. 2001. Developmental response of three geographic isolates of *Lysiphlebus testaceipes* (Cresson) (Hymenoptera: Aphidiidae) to temperature. *Environ. Entomol.* 30: 637-641.
  7. Royer, T.A., P.G. Mulder, and G.W. Cuperus. 1999. Renaming (redefining) integrated pest management: fumble, pass, or play? *Am. Entomol.* 45: 136-139.
  8. Royer, T.A., J.V. Edelson, and M.K. Harris. 1999. Temperature related, stage-specific development and fecundity of colonizing and root-feeding morphs of the poplar petiolegall aphid (Homoptera: Aphididae) on *Brassica*. *Environ. Entomol.* 28: 572-576.
  9. Royer, T.A., and J.V. Edelson. 1991. Seasonal abundance and within-field dispersion patterns of the poplar petiolegall aphid (Homoptera: Aphididae) in cabbage and broccoli. *Environ. Entomol.* 20:1267-1273.
  10. Royer, T.A., J.V. Edelson, and M.K. Harris. 1991. A technique and apparatus for isolating and rearing subterranean aphids. *Southwestern Entomol.* 16: 100-106.
  11. Royer, T.A., and D.D. Walgenbach. 1991. Predaceous arthropods associated with cultivated sunflowers in eastern South Dakota. *J. Kansas Entomol. Soc.* 64: 112-116.
  12. Royer, T.A., J.V. Edelson, C. K. Bogle, and S. McCrate. 1989. Insecticide application and insect control using a drip irrigation delivery system. *Pesticide Sci.* 25: 231-240.
  13. Royer, T.A., and D.D. Walgenbach. 1987. Impact of sunflower moth (Lepidoptera: Pyralidae) larva infestations on yield of cultivated sunflowers. *J. Econ. Entomol.* 80: 1297-1301.
  14. Royer, T.A., J.V. Edelson, and B. Cartwright. 1986. Damage and control of *Thrips tabaci* Lindeman on spring onions. *J. Rio Grande Valley Hort. Soc.* 39: 69-74.

#### As Co-Author

15. Berro, A.M., S. Evans, E.M. Ferguson, and T.A. Royer. 2017. Acceptability of *Diorhabda carinulata*, an introduced biological control agent of *Tamarix*, as prey for selected resident native arthropod predators. *Southwestern Entomologist* (In Press).
16. Elliott, N.C., M. Brewer, N. Seiter, T. Royer, R. Bowling, G. Backoulou, J. Gordy, K. Giles, J. Lindenmayer, B. McCornack and D. Kerns. 2017. Sugarcane aphid spatial distribution in grain sorghum fields. *Southwestern Entomologist.* 42:27-35.
17. Giles, K.L., B.P. McCornack, T.A. Royer and N.C. Elliott. 2017. Incorporating biological control into IPM decision making. *Current Opinion in Insect Science.* 20:84-89
18. Graf, N., E. Rebek, T. Royer and N. Walker. 2017. Spatial and temporal distribution of *Phyllophaga* spp. infesting bermudagrass stands in Oklahoma. *International Turfgrass Society Research Journal* (In Press)
19. Knutson, A.E., K.L. Giles, T.A. Royer, N.C. Elliott, and N. Bradford. 2017. Application of pheromone traps for managing Hessian fly (Diptera: Cecidomyiidae) in the Southern Great Plains. *Journal of Economic Entomology* 110: (doi:10.1093/jee/tox088)
20. Konemann, C.E., B.M. Kard, T.A. Royer and M.E. Payton. 2017. Carbon dioxide and methane emissions from different sized groups of Eastern subterranean termites. *Southwestern Entomologist* 42: 321-329.
21. Bowling, R., E. Maxon, M. Brewer, D.L. Kerns, J. Gordy, N. Seiter, N.C. Elliott, M. Way, T. Royer, S. Biles, J. Thomas, D. Buntin. 2016. Sugarcane aphid (Homoptera: Aphididae): a new pest on sorghum in North America. *Journal of Integrated Pest Management.* 7 (1): 12; DOI: 10.1093/jipm/pmw011.

22. Kaiser, S.R. and T.A. Royer. 2015. Presence and seasonal occurrence of *Pseudacteon* spp. (Diptera: Phoridae) in southeastern Oklahoma using modified Puckett trap configurations. *Southwestern Entomologist* 40: 691-701.
23. Backoulou, G.F., N.C. Elliott, T.A. Royer, K.L. Giles, B.P. McCornack, B.P. Pendleton and M. J. Brewer. 2014. A web based decision support system for headworm management in grain sorghum. *Crop Protection*. doi:10.2134/CM-2014-0020-MG
24. Chen, M., S. Wheeler, H. Davis, R. J. Whitworth, A. Knutson, K. L. Giles, T. A. Royer and M. Skinner. 2014. Molecular markers for identification of Hessian fly males caught on pheromone traps. *J. Econ. Entomol.* 107:1110-1117.
25. Dobhal, S., G. Zhang, T. Royer, J. Damicone and L.M. Ma. 2014. Survival and growth of foodborne pathogens in pesticide solutions for produce production. *Journal of Food Protection*. DOI 10.1002/jsfa.6640
26. Elliott, N.C., G.F. Backoulou, K.L. Giles and T.A. Royer. 2014. Aphids and parasitoids in wheat and nearby canola fields in central Oklahoma. *Southwest. Entomol.* 39:23-28.
27. Elliott, N.C., G.F. Backoulou, K.L. Giles, and T.A. Royer. 2014. Parasitism of aphids in canola fields in Central Oklahoma. *J. of Agric. and Urban Entomology* 30: 59-64.
28. Elliott, N.C. M.J. Brewer, K.L. Giles, G. F. Backoulou, B.P. McCornack, B.B. Pendleton and T.A. Royer. 2014. Sequential Sampling for panicle caterpillars (Lepidoptera: Noctuidae) in sorghum. *J. Econ Entomol.* 107:846-853.
29. Michels, G.J. Jr., T.A. Royer, E.N. Jones, R.A. Lange, E.D. Bynum, D.C. Ruthven III, J.L. Tracey and J.B. Bible. 2013. New establishment and county records for *Diorhabda* spp. (Coleoptera: Chrysomelidae) and *Coniatus splendidulus* (Coleoptera: Curculionidae) in the Texas Panhandle and Western Oklahoma. *Southwest. Entomol.* 38:173-181
30. Mullins, C.B., K.L. Giles and T.A. Royer. 2013. Impact of *Lysiphlebus testaceipes* stage of development within greenbug hosts on survival and development of late-stage *Hippodamia convergens* larvae. *Southwest. Entomol* 38:549-560.
31. Franke-Dvorak, T. C., Kelsey, K. D., & Royer, T. A. 2010. Is extension still reaching stakeholders? An assessment of minor crop producers' educational needs and use of Cooperative Extension Services. *Journal of Agricultural Education*, 51(1), 56-64.
32. Chen, M-S, E. Echegaray, R. J. Whitworth, H. Wang, P.S. Sloderbeck, A. Knutson, K.L. Giles and T.A. Royer. 2009. Virulence analysis of Hessian fly populations from Texas, Oklahoma, and Kansas. *J. Econ. Entomol.* 102:774-780.
33. Daskocil, J.P., N.R. Walker, S.M. Marek, G.E. Bell, J.A. Reinert and T.A. Royer. 2008. The species composition and seasonal occurrence of *Phyllophaga* infesting intensely managed bermudagrass in Oklahoma. *J. Econ. Entomol*: 101 1624-1632.
34. Elliott, N. C., M. Mirik, Z. Yang, T. Dvorak, M. Rao, J. Michels, C. Walker, V. Catana, M. Phoofolo, K. Giles, and T. Royer. 2007. Airborne multi-spectral remote sensing of Russian wheat aphid injury to wheat. *Southwest. Entomol.* 32:213-220.
35. Elliott, N.C., M. Mirik, Z. Yang, T. Dvorak, M. Rao, J. Michels, V. Catana, M. Phoofolo, K. Giles, and T. Royer. 2007. Airborne multi-spectral remote sensing for Russian wheat aphid infestations. *Proceedings 20<sup>th</sup> Biennial Workshop on Aerial Photography, Videography, and High Resolution Digital Imagery for Resource Assessment, 2006*.
36. Elliott, N.C., F.L. Tao, K.L. Giles, T.A. Royer, M.H. Greenstone, and K.A. Shufran. 2006. First quantitative study of rove beetles in Oklahoma winter wheat fields. *Biocontrol* 51:79-87.
37. Elliott, N. C., F. L. Tao, R. Fuentes-Granados, K. L. Giles, D. T. Elliott, M. H. Greenstone, K. A. Shufran, and T. A. Royer. 2006. D-vac sampling for predatory arthropods in winter wheat. *Biological Control.* 38:325-330.
38. Payton, M.E., S.J. Richter, K.L. Giles and T.A. Royer. 2006. Transformations of count data for tests of interaction in factorial and split-plot experiments. *J. Econ. Entomol.* 99: 1002-1006.
39. Elliott, N.C., T.A. Royer, K. L. Giles, S. D. Kindler, D. R. Porter, D. T. Elliott, and D. A. Waits. 2004. A web-based management decision support system for greenbugs in winter wheat. Online.

Crop Management. Doi: 10.1094/CM-2004-1006-01-MG.

<http://www.plantmanagementnetwork.org/cm/> Plant Management Network.

40. Kindler, D., L. Hesler, N. Elliott, T. Royer, and K. Giles. 2004. Seasonal abundance of rice root aphid in wheat and effects on forage and grain yields. *Southwest Entomol.* 29: 245-252.
41. Elliott, N.C., K.L. Giles, T.A. Royer, S.D. Kindler, F.L. Tao, D.B. Jones, and G.W. Cuperus. 2003. Fixed precision sequential sampling plans for the greenbug and bird cherry-oat aphid (Homoptera: Aphididae) in winter wheat in Oklahoma. *J. Econ. Entomol.* 96: 1585-1593.
42. Elliott, N.C., K.G. Giles, T.A. Royer, S.D. Kindler, D.B. Jones, and F.L. Tao. 2003. The negative binomial as a probability distribution as a model for describing counts of *Schizaphis graminum* on wheat. *Southwestern Entomol.* 28: 131-136.
43. Giles, K.L., D. B. Jones, T.A. Royer, N.C. Elliott and S.D. Kindler. 2003. Development of a sampling plan in winter wheat that estimates cereal aphid parasitism levels and predicts population suppression. *J. Econ. Entomol.* 96: 975-982
44. Ismal, E., K.L. Giles, L. Coburn, T.A. Royer, R. Hunger, J. Verchot, G.W. Horn, E.G. Krenzer, T.F. Peeper, M.E. Payton, G.J. Michels, and D.A. Owings. 2003. Effects of aphids, barley yellow dwarf, and grassy weeds in grazed winter wheat. *Southwestern Entomol.* 28: 121-130
45. Jones, D.B., K.L. Giles, R.C. Berberet, T.A. Royer, N.C. Elliott and M. Payton. 2003. Functional responses of an introduced parasitoid and an indigenous parasitoid on greenbug at four temperatures. *Environ. Entomol.* 32: 425-432.
46. Kindler, S.D., N.C. Elliott, K.L. Giles and T.A. Royer. 2003. Economic injury level for the greenbug, *Schizaphis graminum* in Oklahoma winter wheat. *Southwestern Entomol.* 28: 163-166.
47. Kindler, S. D., N.C. Elliott, K. L. Giles, T.A. Royer, R. Fuentes-Granados, and F. Tao. 2002. Effect of greenbugs on winter wheat yield. *J. Econ. Entomol.* 95: 89-95.
48. Giles, K.L., T.A. Royer, N.C. Elliott and S.D. Kindler. 2000. Development and validation of a binomial sequential sampling plan for greenbug (Homoptera: Aphididae) infesting winter wheat in the southern plains. *J. Econ. Entomol.* 93: 1522-1530.
49. Giles, K.L., T.A. Royer, N.C. Elliott and S.D. Kindler. 2000. Binomial sequential sampling of *Rhopalosiphum padi* in winter wheat in the southern plains. *Southwestern Entomol.* 25: 191-199.
50. Edelson, J.V., B. Cartwright, and T.A. Royer. 1989. Economics of controlling onion thrips (Thysanoptera: Thripidae) on onions with insecticides in south Texas. *J. Econ. Entomol.* 82: 561-564.
51. Woodson, W.D., J.V. Edelson, and T.A. Royer. 1989. Control of a carrot weevil, *Listeronotus texanus* (Coleoptera: Curculionidae): timing pesticide application and response to selected pesticides. *J. Econ. Entomol.* 82: 209-212.
52. Edelson, J.V., B. Cartwright, and T.A. Royer. 1986. Distribution and impact of *Thrips tabaci* Lindeman (Thysanoptera: Thripidae) on onion. *J. Econ. Entomol.* 79: 502-505.

**BOOK CHAPTERS AUTHORED:** (Articles in **Bold letters** written at OSU)

1. Royer T.A. and K.L. Giles. 2017. The OKANOLA project: challenges in managing insect pests of canola in the southern plains. In: Reddy, G.V.P. *Integrated Management of Insect Pests on Canola and Other Brassica Oilseed Crops.* CAB International, Boston, MA.
2. Robins, P.S. and T. A. Royer. 2012. May and June Beetles. Pp 55-58. In: Freeman, C.A. and R. L. Brandenburg [eds]. *Handbook of turfgrass insect pests.* Entomological Society of America, Landham, MD, and APS Press, St. Paul. MN.
3. Rebek, E.J. S.D. Frank, T.A. Royer and C. E Bogran. 2012. Alternatives to chemical control of insect pests. Chapter 9 pp. 171-195. In: Soloneski, S. and M. Larramendy [eds.] *Insecticides – basic and other applications.* InTech, Rijeka, Croatia.



4. Doskocil, J.P. and T.A. Royer. 2010. White grubs. pp. 136. *In*: Bockus, W.W., R. L. Bowden, R.M. Hunger, W.L. Morrill, T.D. Murray and R.W. Smiley [eds] Compendium of wheat diseases and pests. APS Press, St. Paul, MN.
5. Royer, T.A. 2010. Wireworms. Pp. 137. *In*: Bockus, W.W., R. L. Bowden, R.M. Hunger, W.L. Morrill, T.D. Murray and R.W. Smiley [eds] Compendium of wheat diseases and pests. APS Press, St. Paul, MN.
6. Royer, T.A. 2007. A key to insect and mite pests of small grains, and A key to insect injury to wheat. pp. 27-36. *In*: Buntin, G. D, M. J. Weiss, K. S. Pike, and J. A. Webster [eds.], Handbook of small grains insect pests. Entomological Society of America, Landham, MD, and APS Press, St. Paul, MN.
7. Giles, K, N.C. Elliott, and T. Royer. 2007. Biological control. pp. 18-19. *In*: ESA Handbook of small grain Insects. Entomological Society of America, Landham, MD, and APS Press, St. Paul, MN.
8. Keenan, S., N.C. Elliott, T. A. Royer, and K.L. Giles. 2007. Grower perspectives in Areawide Wheat Integrated pest management in the Southern US Great Plains. pp. 289-314. *In*: Opender, K. and G.W. Cuperus. Ecologically based integrated pest management. CAB International, Cambridge, MA.
9. Royer, Tom A., Phillip E. Sloderbeck, Noel Troxclair, Jr., and Robert J. Wright. 2004. Insect Control, pp 631-667. *In*: C. Wayne Smith [ed.], Corn: Origin, history, technology, and production. John Wiley and Sons Inc., Hoboken, NJ.
10. Royer, T.A., R.L. Leonard, R.D. Bagwell, J.L. Leser, K.L. Steffey, M.E. Gray, and R. Weinzierl. 2000. Insect management, pp. 140-154. *In*: R. Reeder and J.P. Moore [eds.], Conservation tillage systems and management. Midwest Plan Service, Ames, IA.
11. Cuperus, G.W., P.G. Mulder, and T.A. Royer. 1999. Implementation of ecologically-based IPM, pp. 171-204. *In*: J.E. Rechcigl and N.A. Rechcigl. [eds.], Insect pest management: techniques for environmental protection. Lewis Publishers, Boca Raton, FL.
12. Kortier-Davis, M. E. Grafius, and T. Royer. 1995. Celery, pp. 127-138. *In*: Foster, R.E. and B.R. Flood [eds.], Vegetable insect management. Meister, Willoughby, OH.
13. Kortier-Davis, M. E. Grafius, and T. Royer. 1995. Onions, pp.139-146. *In*: Foster, R.E. and B.R. Flood [eds.], Vegetable insect management. Meister, Willoughby, OH.
14. Mahr, S., C. Eastman, and T. Royer. 1995. Root crops, pp. 179-192. *In*: Foster, R.E. and B.R. Flood [eds.], Vegetable insect management. Meister, Willoughby, OH.

#### **ABSTRACTS, PROCEEDINGS, TECHNICAL AND NON-REFEREED PUBLICATIONS**

(Articles in **Bold letters** written at OSU)

1. **Zarrabi, A.A., T.A. Royer, K.L. Giles, S.K. Seuchs, J.P. Lindenmayer and N. Ghousifam. 2016. Standardized evaluation of Carbine for control of sugarcane aphid in early and late-planted sorghum, 2016. Arthropod Management Tests 41 (1): DOI: 10.1093/amt/tsx006.**
2. **Zarrabi, A.A., T.A. Royer, S.K. Seuchs and K.L. Giles. 2016. Laboratory bioassay of insecticide efficacy for soybean aphid (*Aphis glycines* Matsumura). Arthropod Management Tests 41 (1): DOI: 10.1093/amt/tsx005.**
3. **Zarrabi, A.A., T.A. Royer, K.L. Giles, S.K. Seuchs, and N. Ghousifam. 2016. Standardized evaluation of Sivanto Prime for control of sugarcane aphid, 2016. Arthropod Management Tests 41 (1): DOI: 10.1093/amt/tsx007.**
4. **Zarrabi, A.A., T.A. Royer, K.L. Giles, S.K. Seuchs and N. Ghousifam. 2016. Standardized evaluation of Strafer for control of sugarcane aphid, 2016. Arthropod Management Tests 41 (1): DOI: 10.1093/amt/tsx008.**
5. **Zarrabi, A.A., T.A. Royer, S.K. Seuchs and K.L. Giles. 2016. Insecticide evaluations in soybean for control of twospotted spider mite, 2015. Arthropod Management Tests 41 (1) DOI: 10.1093/amt/tsx004.**

6. Zarrabi, A., K. Seuhs, K. Giles and T. A. Royer. 2015. Insecticide evaluations for grasshopper control in bermudagrass pasture, 2014. *Arthropod Management Tests* 40 (1): DOI: <http://dx.doi.org/10.1093/amt/tsv133>.
7. Zarrabi, A. K. Seuhs, K. Giles and T.A. Royer. 2015. Evaluation of insecticides for sugarcane aphid control in grain sorghum, 2014. *Arthropod Management Tests*. 40 (1): DOI: <http://dx.doi.org/10.1093/amt/tsv135>.
8. Zarrabi, A. K. Seuhs, K. Giles and T.A. Royer. 2015. Insecticide evaluations for grasshopper control in bermudagrass pasture, 2013. *Arthropod Management Tests*. 40 (1): DOI: <http://dx.doi.org/10.1093/amt/tsv134>.
9. Royer, T.A. and K. Giles. March April, 2014. Double trouble: two insects worth watching; combating insecticide resistance in winter canola. *U.S. Canola Digest* pp 14-15. [http://issuu.com/uscanoladigest/docs/uscd\\_marapr2014\\_final\\_lowres](http://issuu.com/uscanoladigest/docs/uscd_marapr2014_final_lowres)
10. Giles, K. and T. Royer. 2013. Hessian Fly populations in Oklahoma and evaluation of elite wheat lines. *Partners in Progress: Wheat Research at OSU 2012*. Oklahoma State University. DASNR-OAES-OCES. Stillwater, OK.
11. Giles, K. and T. Royer. 2012. Hessian fly populations in Oklahoma and evaluation of elite wheat lines. *Partners in Progress: Wheat Research at OSU 2011*. Oklahoma State University. DASNR-OAES-OCES. Stillwater, OK.
12. Giles, K. and T. Royer. 2011. Characterization of insect populations and resistance in wheat. *Partners in Progress: Wheat Research at OSU 2010*. Oklahoma State University. DASNR-OAES-OCES. Stillwater, OK.
13. Giles, K. and T. Royer. 2010. Characterization of insect populations and resistance in wheat. *Partners in Progress: Wheat Research at OSU 2009*. Oklahoma State University. DASNR-OAES-OCES. Stillwater, OK.
14. Rebek, E.J. and T.A. Royer. 2009. Down and dirty with white grubs. *Golf Course Industry*. [http://www.golfcourseindustry.com/Article.aspx?article\\_id=71099](http://www.golfcourseindustry.com/Article.aspx?article_id=71099). GIE Media Inc.
15. Rebek, E.J., T.A. Royer, and N.R. Walker 2009. Evaluation of preventative and curative applications of Arena (chlothianidin) for control of white grubs in bermudagrass, 2008. *Arth. Mgt Tests* 34: Electronic Publication <http://www.entsoc.org/> doi: 10.4182/amt.2009.G5.
16. Franke, T. Kelsey, K. D., & Royer, T. (2009). Is extension still reaching stakeholders? An assessment of minor crop producers' education needs. *AAAE-Southern Region Research Conference*, Atlanta, GA, January 31-February 3, 2009. (Research paper presentation).
17. Giles, K.L., T.A. Royer and M.M. Lebusa. 2007. Parasitized greenbug as a food source for Coccinellidae. *Ecology of Aphidophaga* 10. Athens, Greece.
18. Elliott, N.C., M. Mirik, Z. Yang, T. Dvorak, M. Rao, J. Michels, V. Catana, M. Phoofolo, K. Giles, and T. Royer. 2007. Airborne multi-spectral remote sensing for Russian wheat aphid infestations. *Proceedings 20<sup>th</sup> Biennial Workshop on Aerial Photography, Videography, and High Resolution Digital Imagery for Resource Assessment*, 2006.
19. Royer, Tom, Joseph Duskocil, Nathan Walker, Steve Marek, Greg Bell and James Reinert. Turf-infesting May or June beetles in Oklahoma. November 2007. *Golf Course Management*: 104-107.
20. Royer, T.A., K.L. Giles, R. Kochenower, N.C. Elliott, and J.D. Burd. 2005. Research and extension entomology programs in wheat and sorghum at Oklahoma State University. P. 74 In J.A. Dahlberg, B. Bean, S. Goldman, B. Rooney, S. Bean, J. Burd, T. Isakiet, and R. Kochenower (eds.) *Proc. 24<sup>th</sup> Biennial Grain Sorghum Res. And Util Conf.* Feb. 19-22, Reno, NV.
21. Royer, T.A., K.L. Giles and D. Kastl. 2005. Insecticide evaluations for control of fall armyworm and grasshoppers in bermudagrass pasture, 2004. *Arth. Mgt. Tests* 30: Electronic Publication <http://www.entsoc.org/>.

22. Royer, T.A., K.L. Giles and D. Kastl. 2005. Evaluation of insecticide seed treatments for control of chinch bug in sorghum, 2004. Arth. Mgt. Tests 30: Electronic Publication <http://www.entsoc.org/>.
23. Royer, T.A., K.L. Giles and D. Kastl. 2005. Insecticide evaluation for control of army cutworm in winter wheat, 2004. Arth. Mgt. Tests 30: Electronic Publication <http://www.entsoc.org/>.
24. Royer, T.A., and N. Walker. 2005. White grub control in bermudagrass turf, 2004. Arth. Mgt. Tests 30: Electronic Publication <http://www.entsoc.org/>.
25. Royer, T.A., and N. Walker. 2005. White grub control in turfgrass, 2004. Arth. Mgt. Tests 30: Electronic Publication <http://www.entsoc.org/>.
26. Hunger, R., T. Royer, K. Giles and M. Payton. 2005. Effect of bird cherry-oat (BCO) aphids and barley yellow dwarf virus (BYDV) on winter wheat. *Phytopathology* 95: S45.
27. Royer, T.A., K.L. Giles, D. Kastl, R. Kochenower and V.B. Langston. 2004. Evaluation of Intrepid rates for control of southwestern corn borer in corn, 2003. Arth. Mgt. Tests 28: Electronic Publication <http://www.entsoc.org/>.
28. Royer, T.A., K.L. Giles, D. Kastl, R. Kochenower and V.B. Langston. 2004. Evaluation of XR 225 rates for control of southwestern corn borer in corn, 2003. Arth. Mgt. Tests 28: Electronic Publication <http://www.entsoc.org/>.
29. Royer, T.A., K.L. Giles, D. Kastl, and V.B. Langston. 2004. Evaluation of Intrepid and Tracer for control of fall armyworm in bermudagrass pasture, 2003. Arth. Mgt. Tests 29: Electronic Publication <http://www.entsoc.org/>.
30. Royer, T.A., K.L. Giles, D. Kastl, and V.B. Langston. 2004. Evaluation of Karate for control of fall armyworm in bermudagrass pasture, 2003. Arth. Mgt. Tests 29: Electronic Publication <http://www.entsoc.org/>.
31. Royer, T.A., K.L. Giles and D. Kastl. 2004. Evaluation of Insecticides for control of cereal aphids in winter wheat, 2003. Arth. Mgt. Tests 29: Electronic Publication. <http://www.entsoc.org/>.
32. Royer, T.A. 2003. Book Review: Western Grasshoppers. *Am. Entomol.* 49: 176-177.
33. Royer, T.A., K.L. Giles and D. Kastl. 2003. Evaluation of insecticides for control of army cutworms in winter wheat in Oklahoma, 2002. Arth. Mgt. Tests 28: Electronic Publication <http://www.entsoc.org/>.
34. Royer, T.A., K.L. Giles, D. Kastl R. Kochenower and V.B Langston. 2003. Evaluation of a transgenic BT-corn hybrid for control of southwestern corn borer in Oklahoma, 2002. Arth. Mgt. Tests 28: Electronic Publication <http://www.entsoc.org/>.
35. Royer, T.A. and N. Walker. 2003. Efficacy of turf insecticides on mixed species of nymphal grasshoppers in Oklahoma, 2002. Arth. Mgt. Tests 28: Electronic Publication <http://www.entsoc.org/>.
36. Royer, T.A., K.L. Giles, D. Kastl and V.B. Langston. 2002. Evaluation of Tracer insecticide for control of armyworm in wheat, 2001. Arth. Mgt. Tests 27: Electronic Publication <http://www.entsoc.org/>.
37. Royer, T.A., K.L. Giles, D. Kastl and R. Kochenower and V. B. Langston. 2002. Evaluation of insecticides for control of southwestern corn borer in corn, 2001. Arth. Mgt. Tests 27: Electronic Publication <http://www.entsoc.org/>.
38. Royer, T.A., K.L. Giles, D. Kastl and S. Fimple. 2002. Evaluation of insecticides for control of chinch bug in sorghum, 2001. Arth. Mgt. Tests 27: Electronic Publication <http://www.entsoc.org/>.
39. Royer, T.A., K.L. Giles, D. Kastl and S. Fimple. 2002. Evaluation of FO570 for control of chinch bug in sorghum, 2001. Arth. Mgt. Tests 27: Electronic Publication <http://www.entsoc.org/>.
40. Royer, T.A., K.L. Giles, D. Kastl and R. Kochenower. 2002 Evaluation of FO570 for control of southwestern corn borer in corn, 2001. Arth. Mgt. Tests 27: Electronic Publication <http://www.entsoc.org/>.

41. Walker, N. and T.A. Royer. 2002. The effects of insecticides and delayed irrigation on the management of white grubs in Oklahoma, 2001. Arth. Mgt. Tests 27: Electronic Publication <http://www.entsoc.org/>.
42. Royer, T.A. 2001. Book Review: Stinkbugs of economic importance in North America. Am. Entomol. 47: 122-123.
43. Royer, T.A., K.L. Giles and J. Ball. 2001. Evaluation of Sevin insecticide for control of a mixed-species grasshopper infestation using RAAT applications, 2000. Arth. Mgt. Tests 26: G15. Electronic Publication <http://www.entsoc.org/>.
44. Royer, T.A. K.L. Giles and M. Jeffcoat. 2001. Evaluation of Dimilin insecticide for control of a mixed-species grasshopper infestation using RAAT applications, 2000. Arth. Mgt. Tests 26: G54. Electronic Publication <http://www.entsoc.org/>.
45. Royer, T.A. K.L. Giles and D. Williams. 2001. Greenbug control in winter wheat, 1999. Arth. Mgt. Tests 26: F125. Electronic Publication. <http://www.entsoc.org/>.
46. Royer, T.A. K.L. Giles and K. Boevers. 2001. Evaluation of Tracer insecticide for armyworm control in winter wheat, 2000. Arth. Mgt. Tests, 26: F124. Electronic Publication. <http://www.entsoc.org/>.
47. Royer, T.A., K.L. Giles, and R. Kochenower. 2000. Control of southwestern corn borer on irrigated corn, 1999. Arth. Mgt. Tests 25: 230.
48. Royer, T.A., K.L. Giles, and R. Kochenower. 2000. Control of western corn rootworm larvae, 1999. Arth. Mgt. Tests 25: 229.
49. Royer, T.A., K. L. Giles, and E. Krenzer. 1999. Cereal aphid control, 1998. Arth. Mgt. Tests 24: 323-324.
50. Royer, T.A., and K. L. Giles. 1999. Fall armyworm control in sorghum, 1998. Arth. Mgt. Tests 24: 284.
51. Royer, T.A., and K. L. Giles. 1998. Southwestern corn borer control, 1997. Arth. Mgt. Tests 23: 204.
52. Harris, M.K., C. Graham, T.Y. Li, C.S. Chung and T. Royer. 1992. Spray equipment can affect pest, nutrition management. Pecan South 25: 24-28.
53. Royer, T.A., and J.V. Edelson. 1989. Aphid control, 1987. Insecticide and Acaricide Tests 14: 102.
54. Royer, T.A., and J.V. Edelson. 1989. Insect Control in Cantaloupe 1987. Insecticide and Acaricide Tests 14: 109.
55. Cartwright, B, J.V. Edelson, and T.A. Royer. 1988. Insecticide control of Western flower thrips in onions, 1987. Insecticide and Acaricide Tests 13: 123.
56. Royer, T.A., and J.V. Edelson. 1988. Celery, beet armyworm control, Hidalgo Co. Texas, 1986. Insecticide and Acaricide Tests 13: 109.
57. Royer, T.A., and J.V. Edelson. 1988. Cabbage, beet armyworm control, Test 1, Hidalgo Co. Texas, 1986. Insecticide and Acaricide Tests 13: 101-102.
58. Royer, T.A., and J.V. Edelson. 1988. Cabbage, beet armyworm control, Test 2 Hidalgo Co. Texas, 1986. Insecticide and Acaricide Tests 13: 100-101.
59. Royer, T.A., and J.V. Edelson. 1988. Cabbage, beet armyworm control, Test 3, Hidalgo Co. Texas, 1986. Insecticide and Acaricide Tests 13: 101.
60. Royer, T.A., and J.V. Edelson. 1988. Aphid control on cabbage, 1987. Insecticide and Acaricide Tests 13: 99.
61. Royer, T.A., B. Cartwright, J.V. Edelson, and D. Fernandez. 1988. Cabbage root aphid control, 1986. Insecticide and Acaricide Tests 13: 100.
62. Royer, T.A., and J.V. Edelson, and B. Cartwright. 1988. Onion thrips control with reduced insecticide rates and combinations, 1986. Insecticide and Acaricide Tests 13: 128.
63. Royer, T.A., J.V. Edelson, and B. Cartwright. 1988. Onion thrips control, 1987. Insecticide and Acaricide Tests 13: 129.
64. Royer, T.A., and J.V. Edelson. 1988. Spider mite and cotton aphid control, 1987. Insecticide and Acaricide Tests 13: 258.

65. Royer, T.A., and J.V. Edelson. 1988. Bell pepper, beet armyworm control, Hidalgo Co. Texas, 1986. *Insecticide and Acaricide Tests* 13: 133.
66. Teague, T. G., A.W. Scott, T.A. Royer, and J.V. Edelson. 1988. Chemical control of cabbage root aphids, 1987. *Insecticide and Acaricide Tests* 13: 103.
67. Browning, H. W. and T.A. Royer. 1987. Control of spider mites on greenhouse ornamentals. *Insecticide and Acaricide Tests* 12: 328.
68. Browning, H. W. and T.A. Royer. 1987. Evaluation of *Heliothis zea* control on greenhouse geranium, 1985. *Insecticide and Acaricide Tests* 12: 340.
69. Edelson, J.V., T.A. Royer, and B. Cartwright. 1987. Control of arthropod pest on cantaloupe, 1986. *Insecticide and Acaricide Tests* 12: 108.
70. Royer, T.A., and H.W. Browning. 1987. Mite control on citrus in the lower Rio Grande Valley, Texas, 1986. *Insecticide and Acaricide Tests* 12: 87.
71. Royer, T.A., and J.V. Edelson. 1987. Worm control on cabbage-1985. *Insecticide and Acaricide Tests* 12: 103-104.
72. Royer, T.A., J.V. Edelson, and B. Cartwright. 1987. Onion thrips control, 1986. *Insecticide and Acaricide Tests* 12: 126.
73. Royer, T.A., and J.V. Edelson. 1987. Beet armyworm control in cabbage, 1985. *Insecticide and Acaricide Tests* 12: 103.
74. Royer, T.A., and J.V. Edelson. 1987. Spidermite and cotton aphid control, 1986. *Insecticide and Acaricide Tests* 12: 251.
75. Royer, T.A., B. Cartwright, D. Fernandez, and D. East. 1987. Evaluation of spray timing with Lorsban and Asana to control sorghum midge in the lower Rio Grande Valley, Texas. *Insecticide and Acaricide Tests* 12: 271.
76. Royer, T.A. and J.V. Edelson. 1986. Looper control on cabbage, 1984. *Insecticide and Acaricide Tests*. 11: 117.
77. Royer, T.A., J.V. Edelson, and B. Cartwright. 1986. Onion thrips control, 1985. *Insecticide and Acaricide Tests*. 11: 149.
78. Royer, T.A. and J.V. Edelson. 1986. Zectran efficacy against insect pests of squash, 1984. *Insecticide and Acaricide Tests*. 11: 188- 189.
79. Royer, T.A. and J.V. Edelson. 1986. Spider mite and cotton aphid control, 1985. *Insecticide and Acaricide Tests*. 11: 301-302.
80. Royer, T.A., B. Cartwright, and D. Fernandez. 1986. Evaluation of insecticides and spray carrier to control sorghum midge in south Texas. *Insecticide and Acaricide Tests*. 11: 331-332.
81. Royer, T.A., J.V. Edelson and B. Cartwright. 1985. Effect of various soil and foliar applied insecticides on leafminers in bell peppers. *Insecticide and Acaricide Tests*. 10: 127.
82. Royer, T.A. and J.V. Edelson. 1985. Effect of various insecticides on pests and beneficial insects in cotton, 1984. *Insecticide and Acaricide Tests*. 10: 233.
83. Royer, T.A. and J.V. Edelson. 1985. Bollworm and boll weevil control, 1984. *Insecticide and Acaricide Tests*. 10: 232-233.
84. Royer, T.A. and B. Cartwright. 1985. Greenbug control in grain sorghum, 1984. *Insecticide and Acaricide Tests*. 10: 243.
85. Cartwright, B., T.A. Royer and D. Fernandez. 1985. Evaluation of insecticides to control sorghum midge in South Texas - 1984. *Insecticide and Acaricide Tests*. 10: 239-240.

#### **EXTENSION AND EXPERIMENT STATION PUBLICATIONS:**

(Articles in **Bold letters** written at OSU)

1. **Royer, T.A., D. Arnold, B. Hellie. 2016. Common insects of field crops in Oklahoma. E-1043. Oklahoma Cooperative Extension Service.**
2. **Luper, C. and T.A. Royer. 2016. Understanding pesticides and their alternatives. PP 360-372 in: Hillock, D. 2016. Master Gardener's Manual, E-1034. Oklahoma Cooperative Extension Service, Stillwater, OK.**

3. Royer, T.A. 2015. Mites in small grains. EPP-7093. Oklahoma Cooperative Extension Service, Stillwater, OK.
4. Royer, T. A., N.C. Elliott and K. L. Giles. 2015. Sampling for sorghum headworms in Oklahoma using the headworm decision support system. EPP-7087. Oklahoma Cooperative Extension Service, Stillwater, OK
5. Royer, T.A and K.L. Giles. 2015. Common small grain caterpillars in Oklahoma. EPP-7094. Oklahoma Coop Extension Service, Stillwater, OK.
6. Lee, Jackie, Gina Peek, Brad Kard, Tom Royer and Kevin Shelton. 2014. Choosing a pest management professional for bed bug control. EPP-7332. Oklahoma Cooperative Extension Service, Stillwater, OK.
7. Peek, Gina, Jackie Lee and Tom A. Royer. 2014. Preventing bed bugs. T-4420. Oklahoma Cooperative Extension Service, Stillwater, OK.
8. Hunger, B, R. Kochenower, Tom Royer, Jen Olson and Jeff Edwards. 2013. Wheat streak mosaic, high plains disease and Triticum mosaic: three virus diseases of wheat in Oklahoma
9. Royer, T.A. 2013. Insect management: pp. 53-58 in: No-till cropping systems in Oklahoma. E996. Oklahoma Cooperative Extension Service, Stillwater, OK.
10. Royer, T.A. 2014-(annually revised). Management of insect and mite pests in soybean. CR-7167. Oklahoma Cooperative Extension Service, Stillwater, OK.
11. Royer, Tom and Eric Rebek. 2013. Plant galls caused by insects and mites. EPP-7168. Oklahoma Cooperative Extension Service, Stillwater, OK.
12. Warren, J, S. Alspach, B. Arnall, F. Vitale, R. Taylor, M. Schrock, R.E. Wolf, F. Epplin, H. Zhang, A. Post, R. Hunger, J. Damicone, T. Royer, J. Edwards, R. Boman, R. Kochenower, J. Bushong, S. Osborne. 2013, No-till cropping systems in Oklahoma. E-996. Oklahoma Cooperative Extension Service, Stillwater, OK.
13. Peek, Tina, Jackie Lee and Tom A. Royer Help! I think I have bed bugs. 2012. T-4419. Oklahoma Cooperative Extension Service, Stillwater, OK.
14. Royer, T.A. and K.L. Giles. 2011 (Revised 2015). Caterpillars in canola. EPP-7089. Oklahoma Cooperative Extension Service, Stillwater, OK.
15. Hunger, B., T.A. Royer, J. Edwards and K. Giles. 2011. Effect of planting date and seed treatment on diseases and insect pests of wheat. CR-7088. Oklahoma Cooperative Extension Service, Stillwater, OK.
16. Edwards, Jeff, B. Hunger, B. Carver and T. Royer. (Annually revised). Wheat variety comparison. PSS-2142. Oklahoma Cooperative Extension Service, Stillwater, OK.
17. Royer, T. 2010 (Revised 2015). Worksheet for estimating economic injury levels for sorghum headworms in Oklahoma. EPP-7087. Cooperative Extension Service, Stillwater, OK
18. Arnold, D., E. Rebek, T.A. Royer P. Mulder, and B. Kard. 2009 (rev). Common horticultural and household insects of Oklahoma. E-918. Oklahoma Cooperative Extension Service, Stillwater, OK.
19. Franke, Tanya, Kathleen Kelsey and Tom A. Royer. 2009. Pest management needs assessment for Oklahoma peanut producers. EPP-7083. Cooperative Extension Service, Stillwater, OK.
20. Franke, Tanya, Kathleen Kelsey and Tom A. Royer. 2009. Pest management needs assessment for Oklahoma canola producers. EPP-7085. Cooperative Extension Service, Stillwater, OK.
21. Franke, Tanya, Kathleen Kelsey and Tom A. Royer. 2009. Pest management needs assessment for Oklahoma soybean producers. EPP-7084. Cooperative Extension Service, Stillwater, OK.
22. Franke, Tanya, Kathleen Kelsey and Tom A. Royer. 2009. Pest management needs assessment for Oklahoma grain sorghum producers. EPP-7082. Cooperative Extension Service, Stillwater, OK
23. Franke, Tanya, Kathleen Kelsey and Tom A. Royer. 2009. Pest management needs assessment for Oklahoma cotton producers. EPP-7081. Cooperative Extension Service, Stillwater, OK
24. Franke, Tanya, Kathleen Kelsey and Tom A. Royer. 2009. Pest management needs assessment for Oklahoma corn producers. EPP-7080. Cooperative Extension Service, Stillwater, OK

25. Royer, T. A., J. Edwards and K. L. Giles. 2009 (Revised 2015). Hessian fly management in Oklahoma winter wheat. EPP 7086. Oklahoma Cooperative Extension Service, Stillwater, OK.
26. Royer, T.A. (Annually revised). Management of insect pests in sunflower. CR-7197. Oklahoma Cooperative Extension Service, Stillwater, OK.
27. Royer, T.A. 2007. Insect Management. Chapter 10 *in*: Godsey, C. [ed.]; No-till cropping systems in Oklahoma. E-996. Oklahoma Cooperative Extension Service, Stillwater, OK.
28. Royer, T.A., P. Sloderbeck and K.L. Giles. 2007. Insect Pests. Pp 11-13 *in*: Boyles, M., T. Peeper and M. Stamm [ed.]. Great Plains Canola Production Handbook. MF-2734. Kansas State University, Manhattan.
29. Jones, C, E. Bonjour, T. Royer, D. Lalman, J. Edwards. 2007. Storage and use of low test weight and sprouted wheat. CR-1109. Oklahoma Cooperative Extension Service, Stillwater, OK.
30. Royer, T.A., S. Story, N.C. Elliott and K. Rank. 2007 (Revised 2015). Cereal Aphid Expert System and Glance ‘n Go sampling: training packet and resource materials. E-991. Oklahoma Cooperative Extension Service, Stillwater, OK.
31. Royer, T.A. and K.L. Giles. (Annually revised). Management of insect and mite pests in canola. CR-7667.
32. Royer, T.A. and K.L. Giles. (Annually revised). Management of insect and mite pests in corn. CR-7192.
33. Royer, T.A. (Annually revised). Management of insect and mite pests in sorghum. CR-7170. Oklahoma Cooperative Extension Service, Stillwater, OK.
34. Royer, T.A. and K. Giles. (Annually revised). Management of insect and mite pests in small grains. CR-7194. Oklahoma Cooperative Extension Service, Stillwater, OK.
35. Royer, T.A. (Annually revised). Management of insect pests in rangeland and pasture. CR-7193. Oklahoma Cooperative Extension Service, Stillwater, OK.
36. Royer, T.A., K.L. Giles, S.D. Kindler, and N.C. Elliott. 2004. Cereal aphid expert system and Glance ‘n Go sampling for greenbugs: Questions and Answers. CR- 7191. Oklahoma Cooperative Extension Service, Stillwater. OK.
37. Royer, T.A., K. L. Giles and N. C. Elliott. (Annually revised). Insect pests of small grains and their control, FS 7176. Oklahoma State University Cooperative Extension Service, Stillwater, OK.
38. Royer, T.A. and P. G. Mulder. 2004. Grasshopper Management in Rangeland, Pastures and Crops. F-7196. Oklahoma Cooperative Extension Service, Stillwater, OK.
39. Royer, T.A. and J.V. Edelson. 2004. Grasshopper Control in Gardens and Landscapes. F-7322. Oklahoma Cooperative Extension Service, Stillwater, OK.
40. Von Brombsen, S, B. Olson and T. Royer. 2004 (rev). Dutch Elm Disease and its Control. FS-7602. Oklahoma Cooperative Extension Service, Stillwater, OK.
41. Arnold, D, and T. Royer. 2004 (rev). Nantucket pine tip moth. F-7645. Oklahoma Cooperative Extension Service, Stillwater, OK.
42. Story, S. and T. A. Royer. 2003. Training packet and resource materials for the Cereal Aphid Expert System and Glance n’ Go Sampling. Oklahoma Cooperative Extension Service, Stillwater, OK.
43. Criswell, J.T., P. Bolin, B. Olsen, T. Royer, M. Schnelle. 2003. Interiorscape pesticide certification manual. Oklahoma Cooperative Extension Service, Stillwater, OK.
44. Friend, E.J., J.P. Kelly, C.W. Friend, T.F. Peeper, K.L. Giles, and T.A. Royer. 2002. Biological control of field bindweed in Oklahoma. PT 2002-22. Department of Plant and Soil Sciences, Oklahoma State University, Stillwater, OK.
45. Royer, T.A., K.L. Giles and N.C. Elliott. 2002. Glance ‘n Go sampling for greenbugs in winter wheat, Spring Edition. L-306. Oklahoma Cooperative Extension Service, Stillwater, OK.
46. Royer, T.A., K.L. Giles and N.C. Elliott. 2002. Glance ‘n Go sampling for greenbugs in winter wheat, Fall Edition. L-307. Oklahoma Cooperative Extension Service, Stillwater, OK.



47. Royer, T.A. and M. Schnelle. 2002. Ornamental and lawn pest control (for homeowners). F-7306.
48. Cuperus, G., K. Giles, T. Royer, N. Elliott, D. Kindler, and D. Waits. 2001. Greenbug IPM Research. Pp 11-12 in Oklahoma Panhandle Research and Extension Center 2000 Research Highlights.
49. Royer, T.A., E. Krenzer, and J. Miller, Eds. 2001. Wheat management in Oklahoma. E-831. Oklahoma Cooperative Extension Service, Stillwater, OK, 68 pp.
50. Royer, T.A. 2001-2002. Commercial insect and mite control suggestions for ornamentals and Christmas trees. *In* Extension Agent's Handbook of Insect, Plant Disease, and Weed Control. E-832. Oklahoma Cooperative Extension Service, Stillwater.
51. Royer, T.A. 2001-2002. Insect control suggestions for turfgrass. *In* Extension Agent's Handbook of Insect, Plant Disease, and Weed Control. E-832. Oklahoma Cooperative Extension Service, Stillwater.
52. Royer, T.A., K.L. Giles, R. Kochenower. 2000. Management of southwestern corn borer and banks grass mite using Bt corn and IPM-based insecticide use. Pp 7-8 in Oklahoma Panhandle Research and Extension Center 1999 Research Highlights.
53. Royer, T.A., K.L. Giles, R. Kochenower. 2000. Control of western corn rootworm larvae. P 9 in Oklahoma Panhandle Research and Extension Center 1999 Research Highlights.
54. Royer, T.A. (Annually revised). Corn insect control suggestions. *In* Extension Agent's Handbook of Insect, Plant Disease, and Weed Control. E-832. Oklahoma Cooperative Extension Service, Stillwater.
55. Royer, T.A. (Annually revised). Pasture and range insect control suggestions. *In* Extension Agent's Handbook of Insect, Plant Disease, and Weed Control. E-832. Oklahoma Cooperative Extension Service, Stillwater.
56. Royer, T.A. (Annually revised). Small grains insect control suggestions. *In* Extension Agent's Handbook of Insect, Plant Disease, and Weed Control. E-832. Oklahoma Cooperative Extension Service, Stillwater.
57. Royer, T.A. (Annually revised). Sorghum insect control suggestions. *In* Extension Agent's Handbook of Insect, Plant Disease, and Weed Control. E-832. Oklahoma Cooperative Extension Service, Stillwater.
58. Royer, T.A., P.G. Mulder, and J. Stiegler. Editors, Crop STATEment Newsletter. 1998-1999. 53 issues, over 330 pages.
59. Royer, T.A., K. L. Giles and N. C. Elliott. 1997. Small grain aphids in Oklahoma, FS 7183. Oklahoma State University Cooperative Extension Service, Stillwater, OK. 6 pp
60. Gray, M.E., S.M. Bissonnette, G.F. Czapar, D.C. Feltes, T.A. Royer, J. Toman, Jr., N. Troxclair, Jr., A. Hagar, D.I. Edwards, H.W. Kirby, N.R. Pataky. 1994. Field Crop Scouting Manual. U. of Illinois Coop. Ext. Service. 205 pp.
61. Royer, T.A., and M.E. Gray. 1994. Effects of the flood on pests and pesticides: insects and insecticides. Proc. Illinois Agricultural Pesticides Conference, 1994. pp. 23-24.
62. Royer, T.A. 1993. Wireworm and white grub management: What's old, what's new, what's tried, what's true? Proc. Illinois Agricultural Pesticides Conference, 1993. pp. 111-113.
63. Weinzierl, R., and T. Royer. 1993, 94. Insect pest management for commercial vegetable crops. Chapter 10 *In* 1993 Illinois Pest Control Handbook, Illinois Cooperative Extension Service.
64. Royer, T.A. 1992. Degradation of foliar applied insecticides: how long will this insecticide last? Proc. Illinois Agricultural Pesticides Conference 1992. pp. 164-171
65. Royer, T.A., K. Steffey, R. Weinzierl, P. Nixon, and M. Gray. 1992. Insecticide formulations and toxicities. Chapter 27 *In* 1992 Illinois Pest Control Handbook, Illinois Cooperative Extension Service.
66. Steffey, K., M. Gray, and T. Royer. 1992. Insect pest management for field and forage crops. Chapter 1 *In* 1992 Illinois Pest Control Handbook, Illinois Cooperative Extension Service.
67. Oloumi-Sadeghi, H., T.A. Royer and R. Randell. 1991. Efficacy of *Bacillus thuringiensis* and selected conventional insecticides against the European corn borer and corn earworm in sweet corn.



- pp. 139-142 In H. Oloumi-Sadeghi, M.E. Gray, K.L. Steffey, and C.E. Eastman [eds.] Insect management & insecticide evaluations, Illinois 1991. Center for Economic Entomology, Tech. Rep #6, Illinois Natural History Survey, Champaign.
68. Edelson, J.V., J. J. Magaro and T.A. Royer. 1990. Onion cultivar response to onion thrips infestations. TAES Progress Report No. 4815. 3 pp
  69. Royer, T.A., T. Teague, J.V. Edelson, and B. Cartwright. 1988. Bionomics and control of *Pemphigus populitransversus* Riley in *Brassica oleracea* in south Texas. TAES Prog. Rept. No. 4556. 14 pp.
  70. Royer, T.A., J.V. Edelson, and B. Cartwright. 1986. Insecticide evaluation for onion thrips control. TAES Progress Report No. 4345. 6 pp.
  71. Royer, T.A. and J.V. Edelson. 1985. Cotton pesticide evaluations in the Lower Rio Grande Valley of Texas, 1984. TAES Progress Report No. 4265. 6 pp.
  72. Royer, T.A. J.V. Edelson and B. Cartwright. 1985. Insecticide evaluation for larval leafminer control in bell peppers - 1984. TAES Progress Report No. 4292. 6 pp.
  73. Royer, T.A. and B. Cartwright. 1984. Greenbug control on grain sorghum. pp. 50-51 in: Lower Rio Grande Valley Pest Management Program, 1984. TAEX Annual Report.

### **EXTENSION AND EXPERIMENT STATION MULTI-MEDIA PRODUCTS**

(Products in **Bold letters** developed at OSU)

1. **Self-Directed Power Point Extension Presentations on wheat 2014: (2233 views on You Tube)**
  - **Armyworm identification and control in winter wheat (420 views on You Tube)**
  - **Hessian fly identification and control in winter wheat (442 views on You Tube)**
  - **Aphid identification and control in winter wheat (718 views on You Tube)**
  - **Mite identification and control in winter wheat. (667 views on You Tube)**
2. **Bed Bug Videos on YouTube, 2014:**
  - **Bed Bug Basics: Identification (153 views)**
  - **Bed Bug Basics: Tips for Traveling (145 views)**
  - **Bed Bug Basics: Tips for Workers (25 views)**
  - **Bed Bug Basics: Low Budget Control (44 views)**
  - **Bed Bug Basics: Working with Pesticide Applicators (39 views).**
3. **Backoulou, G.F., N.C. Elliott, T.A. Royer, K.L. Giles, B.P. McCornack, B.P. Pendleton and M. J. Brewer. 2013. Headworm Sequential Sampling and Decision Support System.**  
<http://entopl.okstate.edu/shwweb/>
4. **Royer, T.A. and K. Rank. 2009. IPM Oklahoma!** <http://www.ento.okstate.edu/ipm/>
5. **Elliott, N. C, D. Elliott, T. R. Royer, K. L. Giles, S. D. Kindler, and D. A. Waits. 2002. Greenbug Pest Management Decision Support System. Pest Management Software, USDA-ARS.**  
<http://entopl.okstate.edu/greenbug/index.htm>
6. **Royer, T.A., E. Krenzer, K. Graag, V. Giannoti, Eds. 2001. Wheat Management in Oklahoma, Cd-ROM Oklahoma Cooperative Extension Service.**

**PRESENTATIONS** (Presentations in **Bold letters** were made while at OSU)

#### **Symposia Organized:**

1. **Brewer, M and T.A. Royer, 2015. Brewer, M and T. Royer 2015. Symposium: An integrated regional response to an invasive aphid pest of sorghum. Proc. SW Branch, Entomological Society of America, Tulsa, OK.**

2. Royer, T.A. and P.M. Mulder Jr. 2000. Designing an ecologically-grounded IPM game plan: development, adoption, and implementation. Section E Symposium, Joint Annual Meeting, Society d' entomologie du Quebec, Entomological Society of Canada, and Entomological Society of America, Montreal, Quebec.

(Invited) and Submitted Presentations at Scientific Meetings:

1. Elliott, N.C., T. Royer, M. Brewer, N. Seiter, K. Giles, A. Knutson, B. McCornack and G. Backoulou. Towards efficient multi-scale methods for monitoring sugarcane aphids in sorghum. 2016. XXV International Congress of Entomology, Orlando, FL.
2. (Invited) Royer, T., N. Elliott, N. Seiter, M. Brewer, S. Brown, R. Bowling, A. Knutson, and B. McCornack. 2016. Towards efficient sampling and monitoring of sugarcane aphid in sorghum. The Sugarcane Aphid on Sorghum: Management and Ecology, Symposium) 64<sup>th</sup>. Annual Meeting, Southwestern Branch, Entomological Society of America, Tyler Texas.
3. Lyons, B., J. Talley, T. Royer, A. Wayadande, and J. Payne. 2015. *Enterococcus cecorum* vector competency of *Alphitobius diaperinus* (Panzer). Annual Meeting, Entomological Society of America, Minneapolis, MN.
4. (Invited) Royer, T.A., S. Evans and A. Berro. September, 2015. Introduction and Establishment of *Diorhabda* Beetles in Oklahoma as a Biological Control Agent of *Tamarix*: A Saltatory Process. 13<sup>th</sup> International Conference, Ecology and Management of Alien Plant Invasions, Hilo, HI.
5. Evans, J. S., T. A. Royer. 2014. Distribution of the larger tamarisk beetle, *Diorhabda carinata*, in Oklahoma and potential impacts on arthropod predator food webs. Symposium: 62<sup>nd</sup> Annual Meeting, Southwestern Branch, Entomological Society of America, San Antonio, TX.
6. (Invited) Royer, T.A. and K.L. Giles. November, 2013. The OKANOLA project: challenges in managing insect pests of canola in the southern plains. Member Symposium: Insect Pests of Canola (*Brassica spp.*) and their Management. 61<sup>st</sup> Annual Meeting, Entomological Society of America, Austin, TX.
7. (Peer Selected). Peek, G., Atilas, J., Royer, T., Taylor, L., & Blocker, M. (October 27-30, 2013). Sleep tight: Bed bugs Extension education in a rural state. 46th Annual Conference of the Housing Education and Research Association. Tulsa, OK.
8. Elliott, N.C. K.L. Giles, T.A. Royer, M.J. Brewer, B.B. Pendleton, B. R. McCornack, and G. Backoulou. 2012. Sequential sampling for headworm in grain sorghum. 60<sup>th</sup> Annual Meeting, Entomological Society of America, Knoxville, TN.
9. (Invited) Berro, A. and T. Royer. 2011. Biological control of weeds in Oklahoma: Challenges and opportunities. S1034 Symposium: Weed Biological Control Projects in the Region. San Juan, PR.
10. Royer, T.A., J. Doskocil. 2008. What's in a Name? May/June Beetle Grubs and Intensively Managed Turfgrass in Oklahoma. Southwestern Branch, Entomological Society of America, Ft. Worth, TX.
11. (Invited) Royer, T.A. 2007. Oklahoma's Wheat IPM Team: The Development of Insect Management Programs in Winter Wheat in Oklahoma. (Plant Science/NCARL Seminar Series, South Dakota State University, Brookings, SD.
12. Doskocil, J.P., T.A. Royer, S.M. Marek, G.E. Bell, H.E. Bruce and N.R. Walker. 2006. Molecular identification of *Phyllophaga* larvae inhabiting turfgrass using cytochrome C oxidase I sequences. Entomological Society of America, Indianapolis, IN.
13. (Invited) Royer, T.A., K.L. Giles and N.C. Elliott. 2005. New approaches to sampling and decision-making for aphids and parasitoids in wheat. Section E Symposium: *Areawide Pest Management for Rain-fed Cropping Systems On the Western Great Plains* Entomological Society of America, Ft. Lauderdale, FL.

14. (Invited) Elliott, N.C., M. Mirik, G.J. Michels, Z. Yang, M. rao, K.L. Giles, T.A. Royer, V. Catana and M.W. Phoofolo. 2005. Airborne remote sensing to Detect Russian wheat aphid infestations. Section E Symposium: Areawide Pest Management for Rain-fed Cropping Systems on The Western Great Plains). Entomological Society of America, Ft. Lauderdale, FL
15. (Invited) Royer, T.A., K.L. Giles, N.C. Elliott. 2004. The greenbug expert system and Glance 'n Go sampling for management of greenbug, *Schizaphis graminum* Rondani, in winter wheat. XXII International Congress of Entomology, Brisbane, AU Section 1 Symposium, August 16, 2004.
16. Elliott, N.D., T.A. Royer, K.L. Giles and S.D. Kindler. 2004. Greenbug decision support system. 75<sup>th</sup> Meeting of the Rocky Mountain Conference of Entomologists. Woodland Park, CO.
17. (Invited) Lebusa, M., T.A. Royer and K.L. Giles. 2004. Suitability of parasitized greenbugs, *Schizaphis graminum* (Rondani) as a food source for predatory coccinellidae. XXII International Congress of Entomology, Brisbane, AU. Section 1 Symposium, August 16, 2004.
18. Lebusa, M., T.A. Royer and K.L. Giles. 2004. Suitability of parasitized greenbugs, *Schizaphis graminum* (Rondani) as a food source for predatory coccinellidae. Southwestern Branch, Entomological Society of America, Lubbock. TX.
19. Royer, T.A., N.C. Elliott, K.L. Giles. 2003. The greenbug pest management decision support system. Southwestern Branch, Entomological Society of America, Oklahoma City. (Symposium 4)
20. Royer, T.A., K. L. Giles, N. C. Elliott, and S. D. Kindler. 2000. Comparison of development rates of geographic isolates of *Lysiphlebus testaceipes* on greenbug. Southwestern Branch, Entomological Society of America, Dallas, TX. (10 min presentation).
21. Royer, T.A., K. L. Giles and E. Krenzer. 1998. Effects of planting date on aphid control with imidacloprid seed treatments in winter wheat. Rocky Mountain Entomology Conference, Colorado Springs.
22. Royer, T.A., J.V. Edelson, and M. K. Harris. 1990. Development and fecundity of cabbage-reared poplar petiolegall aphid as a function of temperature. National meeting, Entomological Society of America, New Orleans, LA. (10 min. presentation).
23. Royer, T.A., J.V. Edelson, and C. Bogle. 1987. Insect control in vegetables using insecticides delivered through a drip irrigation system. 35<sup>th</sup> Annual Meeting, Southwestern Branch, Entomological Society of America, Austin, TX. (10 min presentation).
24. Royer T.A., J.V. Edelson, and B. Cartwright. 1986. Relationship of onion thrips, *Thrips tabaci* Lindeman and yield of bulb onions in South Texas. National meeting, Entomological Society of America, Reno, Nevada. (10 min. presentation).
25. Royer, T.A., J.V. Edelson, and B. Cartwright. 1985. Yield impact and control of onion thrips on onions. National meeting, Entomological Society of America, Hollywood, Florida. (10 min. presentation).
26. Royer, T.A., J.V. Edelson, and B. Cartwright. 1984. Comparison of sampling techniques to monitor populations of *Liriomyza* spp. in bell peppers. National meeting, Entomological Society of America, San Antonio, Texas. (10 min. presentation).
27. Johnson, K. J. R., R. Arriaga\*, and T.A. Royer. 1984. Methods of assessing efficacy of insecticides for control of *Eoreuma loftini*, a Pyralid stalk borer. National Entomological Society of America, San Antonio, Texas. (10 min. presentation). \*=presenting author.
28. Royer, T.A., and D. D. Walgenbach. 1983. Sunflower moth artificial infestation studies. N. Central Branch meeting, Entomological Society of America, St. Louis Missouri. (10 min. presentation).
29. Royer, T.A., and D. D. Walgenbach. 1982. Preliminary sunflower moth artificial infestation studies in South Dakota. N. Central Branch meeting, Entomological Society of America, Sioux Falls, South Dakota. (10 min. presentation).

Poster Presentations at Scientific Meetings

1. Royer, T.A., J.C. Lindenmayer, K.L. Giles, A.A. Zarrabi, N.C. Elliott, R. Bowling, A.E. Knutson, N. Seiter, S. Brown and B. McCornack. 2017. Evaluation of spatial, temporal and geographic variation of within-field distribution of the sugarcane aphid, *Melanaphis sacchari* (Zehntner) in grain sorghum. Hemipteran-Plant Interactions Symposium, Madrid, Spain.
2. Pavlu, J. K. Giles, A. Zarrabi, N. Elliott, and T. Royer. 2016. Developing a research based sampling protocol for sugarcane aphid, *Melanaphis sacchari* in sorghum. XXV International Congress of Entomology, Orlando, FL.
3. Knutson, A., K. Giles, T. Royer, N. Bradford and C. Campos. 2016. Monitoring Hessian fly, *Mayetiola destructor*, flight: Management applications and limitations of pheromone traps. XXV International Congress of Entomology, Orlando, FL.
4. Jessie, W., K. Giles, T. Royer, N.C. Elliott, JP, Michaud and M. Payton. 2016. Interactions between *Diaeretiella rapae* and *Lysiphlebus testaceipes* in winter canola. 13th International Symposium, Ecology of Aphidophaga. Freising, Germany.
5. Evans, J.S., A. Bussell, T. Royer and F.M. Ochoa Corona. 2015. Measuring difference in prey detectability for predator molecular gut content analysis using half-life detectability.
6. Zarrabi, A., K. L. Giles, T. A. Royer, N.C. Elliott and K. Seuhs. 2015. Sugarcane aphid *Melanaphis sacchari* (Zehntner) on sorghum: is there a comprehensive solution? 63rd Annual meeting, SW Branch of the Entomological Society of America, Tulsa, OK.
7. Zarrabi, A, S.K. Seuhs, T.A. Royer and K. L. Giles. 2015. Insecticide evaluations for grasshopper control in bermudagrass (pasture) *Cynodon dactylon* (L.) in Oklahoma. 63rd Annual meeting, SW Branch of the Entomological Society of America, Tulsa, OK.
8. Zarrabi, A.A., K. L, Giles, S. K. Seuhs, N.C. Elliott and T.A. Royer. 2015. Sugarcane aphid (*Melanaphis sacchari* (Cehntner)) in Oklahoma: Responding to a new pest. Proc. Sorghum Improvement Conference of North America. Manhattan, KS.
9. Royer, T.A., K.L. Giles, A.A. Zarrabi, J. Damicone and J. Bushong. 2015. Winter Canola as a Rotational Crop for Winter Wheat in Oklahoma: Pest Management Challenges and Solutions. 8th International IPM Symposium, Salt Lake City, UT.
10. Ferguson, B., Ferguson, B., T.A. Royer, K. Giles and N. Elliott. 2014. Parasitism rate of bird cherry-oat aphid and cabbage aphid (Hemiptera; Aphididaw) by *Diaeretiella rapae* (Hymenoptera: Braconidae) in an experienced versus a novel environment. Annual Meeting, Entomological Society of America, Portland, OR.
11. Ferguson, B., T.A. Royer, K. Giles and N. Elliott. 2014. Behavior of experienced and inexperienced *Diaeretiella rapae* (Hymenoptera: Braconidae) exposed to winter wheat and canola. 62<sup>nd</sup> Annual Meeting, Southwestern Branch, Entomological Society of America, San Antonio, TX.
12. Royer, T.A., G.F. Backoulou, N.C. Elliott, K.L. Giles, B.P. McCornack, B.B. Pendleton, and M.J. Brewer. 2013. The sorghum headworm calculator: a speedy tool for headworm management. Proc. 2013 Sorghum Improvement Conference of North America, Lubbock. TX.
13. Bradford, N, K.L. Giles and T.A. Royer. 2012. Adult Hessian fly (*Mayetiola destructor*) flight in Oklahoma. Poster. 60<sup>th</sup> Annual Meeting, Entomological Society of America, Knoxville, TN.
14. Brown, N.R., M. Baker, K.D. Kelsey, and T.Royer. 2012. Q-Sorts, Observations, and Conversations: Evaluating School Integrated Pest Management Programs Using Novel Methods. 26<sup>th</sup> Annual Conference of the American Evaluation Association, Minneapolis, MN.
15. Royer, T.A. 2012. Five PEAs in a pod: Program emphasis areas for IPM Oklahoma! 7<sup>th</sup> International Integrated Pest Management Symposium, Memphis, TN.
16. Royer, T.A., K.L. Giles, N.C. Elliott, R.M. Hunger, B.F. Carver, J.T. Edwards, J. Armstrong. 2011. IPM programs for winter wheat in Oklahoma: A team approach to manage insects, diseases, and weeds. APS-IPPC Joint Meeting, Honolulu, HI.

17. Berro, A.M., T.A. Royer and K.L. Giles. 2010. The suitability of *Diorhabda elongata* (Coleoptera: Chrysomelidae) as a food source for *Coccinella septempunctata* (Coleoptera: Coccinellidae). Entomological Society of America, San Diego, CA.
18. Royer, T.A. 2009. IPM Oklahoma! Fulfilling the needs of Oklahoma's rural and urban stakeholders. 6<sup>th</sup> International Integrated Pest Management Symposium, Portland OR.
19. Phoofolo, Mpho, K. Giles, T. Royer, A. Knutson, G.J. Michels, P. Sloderbeck, and N.C. Elliott. 2008. Evaluation of the "Glance 'n Go" greenbug and parasitism sampling and management plant in winter wheat. Entomological Society of America, Reno, NV.
20. Alvey, D., K. Giles, B. Carver, and T.A. Royer. 2008. Evaluation of resistant wheat for Hessian fly (*Mayetiola destructor*). Entomological Society of America, Reno, NV.
21. Alvey, D., K. Giles, T. Royer and J. Edwards. 2007. Hessian fly (*Mayetiola destructor*) in Oklahoma. Entomological Society of America, San Diego, CA.
22. Royer, T.A., J.A. Doskocil, 2006. A survey of *Phyllophaga* species of Oklahoma Associated with golf courses. Entomological Society of America, Indianapolis, IN.
23. Royer, T.A., K.L. Giles, R. Kochenower, N.C. Elliott, and J.D. Burd. 2005. Research and extension entomology programs in wheat and sorghum at Oklahoma State University. North American Grain Congress, Reno, NV.
24. Ismail, E.A., K.L. Giles, T.A. Royer, E.G. Krenzer and G.W. Horne. 2005. Effects of delaying grazing initiation date in dual-purpose wheat on arthropod abundance and grain yield. S.W. Branch, Entomological Society of America, Albuquerque, NM.
25. Giles, K.L., R.M. Hunger, T.A. Royer, C. Krehbiel, F. Epplin, M. Payton, N.C. Elliott and S.D. Kindler. 2004. Potential economic losses associated with aphids infesting dual-purpose winter wheat. Entomological Society of America, Salt Lake City, UT.
26. Kindler, S.D., L. Hesler, N.C. Elliott and T.A. Royer. 2003. Effects of rice root aphid on forage oat grain yields of wheat. Entomological Society of America, Cincinnati, OH.
27. Kastl, D., K. Giles, T. Royer, N. Elliott, C. Krehbiel. 2003. Effects of greenbug infestations on winter wheat forage. S.W. Branch, Entomological Society of America, Oklahoma City.
28. Keenan, S., P. Bolin, K. Giles and T. Royer. 2003. Area-wide Pest Management for Wheat: Management of greenbug and Russian wheat aphid. 4<sup>th</sup> National IPM Symposium, Indianapolis.
29. Kindler, S.D., L. Hesler, N.C. Elliott and T.A. Royer. 2003. Effects of rice root aphid on forage oat grain yields of wheat. S.W. Branch, Entomological Society of America, Oklahoma City.
30. Royer, T.A, K.L. Giles, N.C. Elliott, and D.L. Waits. 2003. The greenbug expert system and Glance n' Go<sup>TM</sup> sampling for cereal aphid management in winter wheat. Entomological Society of America, Cincinnati, OH.
31. Royer, T.A. and N. Walker. 2003. Predation of black cutworm larvae *Agrotis ipsilon* by thief ants *Solenopsis molesta* in a turfgrass ecosystem. S.W. Branch, Entomological Society of America, Oklahoma City.
32. Giles, K., E. Ismail, D. Kastl, R.M. Hunger, C. Krehbiel, T.A. Royer and N.C. Elliott. 2002. The effects of *Rhopalosiphum padi* L. on winter wheat forage yields and quality. National Meeting, Entomological Society of America, Ft. Lauderdale.
33. Elliott, N. C, K. L. Constein, T.A. Royer, K.L. Giles, S.D. Kindler, and D.A. Waits. 2001. An expert system for greenbug management in wheat. Proc. 71<sup>st</sup> Rocky Mountain Conference of Entomologists. Woodland Parks, CO.
34. Royer, T.A, K.L. Giles, and E. Krenzer. February 2001. Effects of planting date on control of cereal aphids using Gaucho-treated seed. SW Branch, Entomological Society of America, San Antonio.
35. Royer, T.A., K.L. Giles, E. Krenzer. February, 2001. Effects of planting date on control of cereal aphids using Gaucho-treated seed. Wheat Industry Research Forum, National Wheat Growers Association Annual Meeting, New Orleans, LA.

36. Hollen, K.A., T.F. Peeper, K.L. Giles and T.A. Royer. 2000. Biological bindweed control introduction. Annual meeting, Western Society of Weed Science, Tuson, AZ.
37. Giles, K.L. and T.A. Royer. 1999. IPM of *Schizaphis graminum* in Oklahoma: Development of sampling methods. National meeting, Entomological Society of America, Atlanta, GA.
38. Royer, T.A., and K. L. Giles. 1998. Effects of plating date on aphid control with imidacloprid seed treatments in winter wheat. National meeting, Entomological Society of America, Nov 8-12, Las Vegas, NV.
39. Royer, T.A., J.V. Edelson, and M. K. Harris. 1998. Effects of poplar petiolegall aphid on growth of cabbage and broccoli. Southwestern Branch ESA Annual Meeting, Feb 9-12, Corpus Christi, TX.
40. Radcliff, S. T., R. A. Weinzierl and T.A. Royer. 1995. Preliminary evaluations of mating disruption for codling moth control in Illinois apple orchards. North Central Branch meeting, Entomological Society of America, Lexington, KY.
41. Royer, T.A., M. K. Harris and J.V. Edelson. 1990. Rearing methods for studying the biology of subterranean aphids on herbaceous hosts, using the poplar petiolegall aphid as a model system. International Aphid Symposium, Stillwater, OK.
42. Royer, T.A., M. K. Harris and J.V. Edelson. 1989. Interactions between *Pemphigus populitransversus* Riley and domestic *Brassica*. National meeting, Entomological Society of America Meeting, San Antonio TX.

**EXTENSION** (Listings in **Bold letters** were conducted at OSU)

#### **Seminars, Professional Conferences Workshops: Organizer**

1. **Co-Organizer, Oklahoma Invasive Species Workshop, 2014, Oklahoma City, OK,**
2. **Co-Organizer. School IPM Workshop, 2009, Oklahoma City, OK.**
3. **Co-Organizer, Oklahoma Cooperative Extension Conference, 2005, 2007, Stillwater, OK**
4. **Co-Organizer and/or Local Arrangements Coordinator, Greenbug Workers Consortium, 1997-2002. Stillwater, OK.**
5. Co-Organizer, Southern Illinois Field Crops Scout School. 1994-1996.
6. Co-Organizer, Bird Management Workshop. 1995. Mt. Vernon, IL
7. Co-Organizer, Mosquito Management Workshop. 1994. Collinsville, IL.

#### **Professional Conferences, Workshops, In-service: Invited Presenter**

1. **Zarrabi, A., and T. A. Royer 2016.**
2. **Royer, T.A., and A. Zarrabi.**
3. **Royer, Tom A. December 2015. *Fall armyworm: biology and management in wheat and sorghum.* Oklahoma Winter Crops School, Stillwater.**
4. **Royer, T.A. Nov 2015. *Sugarcane aphid management.* Crop Quest Informational Quest. Midwest City, OK.**
5. **Royer, T.A. January, 2015. *Aphids and insecticides.* Oklahoma Agricultural Aviation Association, Midwest City, OK.**
6. **Royer, T.A. January 2015. IPM-What's True, What's New? Turf & Landscape Workshop, Ardmore, OK.**
7. **Royer, T.A. 2014. *Aphid control in sorghum and canola: Regulatory issues regarding new aphicides and their use.* Oklahoma Ag Expo, Oklahoma City, OK 11/05/2014.**
8. **Papes, M. And T. Royer. 2014. *Bagrada bug, a cole crop pest from Africa, in United States: Introduction and potential spread.* Oklahoma Invasive Species Conference, Oklahoma City. 03/25/2014**

9. Royer, T.A. 2014. *Sugarcane aphid in Oklahoma*. Pioneer/Dupont Seminar Oklahoma City. 10/02/2014
10. Royer, T.A. 2014 *Canola insect and grasshopper management*. Oklahoma Aerial Applicators Association, Midwest City, OK. 01/21/2014
11. Peek, et al. 2014. *Sleep tight: Bed bugs information and education efforts*. Oklahoma Annual Cooperative Extension Conference, Stillwater, OK. 01/22/2014
12. Royer, T.A. 2013. *Canola insect management*. Oklahoma Ag Expo, Midwest City, OK. 12/04/2013
13. Royer, T.A. 2013. *Canola insect update: pest status and new insecticide tools*. Oklahoma Winter Crops School, Stillwater, OK. 12/10/2013
14. Royer, T.A. *Here's to the Pollinators!* Blue Thumb Master Naturalist Conference, Stillwater. OK 11/03/12.
15. Royer, T.A. and R. Hunger. *Management strategies to limit losses from the aphid/barley yellow dwarf complex*. Oklahoma Ag Expo, Oklahoma City, OK. 11/01/12.
16. Royer, T.A. *Insects and Diseases on Trees and Ornamentals*. Target Specialty Products Seminar. Tulsa. OK. 10/11/12
17. Peek, G and T. A. Royer. *Round table for best practices for a healthy home*. National Association of Housing and Redevelopment Officials, Annual Meeting, Norman, OK. 09/12/12.
18. Royer, T.A. *IPM Programs for small market producers*. Oklahoma Chapter of the Soil and Water Conservation Society, Stillwater, OK. 06/06/12
19. Peek, G. and T. A. Royer. *Bed bugs*. Oklahoma Chapter, National Association of Housing and Redevelopment Officials, Tulsa, OK. 09/16/12.
20. Royer, T.A. *IPM in the home garden: Sensible tools you can get right of the shelf!* Oklahoma Horticulture Industry Show. Tulsa, OK. 01/07/12
21. Royer, T.A. *Entomology as a Career*. Cameron University's Upward Bound and Open Doors, Program, Lawton, OK. 04/16/11.
22. Royer, T.A. White grub management. Oklahoma Turfgrass Research Foundation, Stillwater, OK.
23. Royer, T.A. and G. Peek. *Bed bug Management*. Oklahoma Housing Finance Agency, Oklahoma City, OK. 11/02/11.
24. Royer, T.A. and G. Peek. *Bed bug Management*. National Association of Housing and Redevelopment Officials, Annual Meeting, Norman, OK. 09/16/10.
25. Royer, T.A. *School IPM in Oklahoma: an Update*. Oklahoma Pest Control Association, Oklahoma City, OK. 09/09/10.
26. Royer, T.A. *School IPM in Oklahoma*. Oklahoma Pest Control Association, Oklahoma City, OK. 09/24/09.
27. Royer, T.A. *Building a Master Gardener "IPM Master Plan" for the Lawn and Garden*. Oklahoma Master Gardener State Conference, Bartlesville, OK. June 2009.
28. Royer, T.A. *Oklahoma's Most Wanted (Arthropod Pests)*. IPM and Sustainable Pest Control Workshop, Stillwater (07/16/09, Tulsa (07/20/09) and Oklahoma City 07/27/09).
29. Royer, T.A. *IPM Update*. Eastern OK Extension Entomology/Plant Pathology Workshop. May, 2008.
30. Royer, T.A. *Wheat Entomology*. Eastern OK Extension Entomology/Plant Pathology Workshop. May, 2008.
31. Royer, T.A. *IPM: A Sustainable (& Sensible) Approach to Pest Management in Oklahoma*. The Landscape IPM Workshop, Stillwater, OK. May, 2008.
32. Royer, T.A. *Insect Damage that Could be Mistaken for Herbicide Drift Injury*. Oklahoma Department of Agriculture, Food and Forestry Inspectors Workshop. April, 2008.
33. Royer, T.A. *Sustainable (& Sensible) Approach to Pest Management in Oklahoma*. Oklahoma Sustainability Network, Norman, OK. March, 2008.

34. Royer, T.A. *IPM: An Alphabet for Pest Management in Oklahoma Schools*. Oklahoma Pest Control Association. Feb., 2008.
35. Royer, T.A. *Entomology, the REAL Oldest Profession*. Osher Lifelong Learning Institute. Stillwater, OK. Feb., 2008.
36. Royer, T.A. *School IPM in Oklahoma: Encouraging Volunteer School IPM Programs through Extension Demonstration; an Update*. Region 6 EPA Quality Control Workshop, Dallas, TX. Oct., 2007.
37. Royer, T.A. *Brown Recluse Spiders: an Opportunity for School IPM Programs in Oklahoma?* 58<sup>th</sup> Annual OPCA Pest Control Conference. Oklahoma City. Sept., 2007.
38. Royer, T.A. *Oklahoma's Wheat IPM Team: The development of insect management programs in winter wheat in Oklahoma*. Plant Science / NCARL Seminar, South Dakota State University, Brookings, SD. Apr 2007.
39. Royer, T.A. *Seed Treatments as an Option for Insect Management*. Oklahoma Farmer/Rancher Drift Management Seminar, Ponca City. Apr, 2007.
40. Royer, T.A. *IPM for Right-of Way Vegetation Management*. Oklahoma Vegetation Management Association Conference and Trade Show. Oklahoma City, Mar., 2007.
41. Royer, T.A. *Insect Pests*. Oklahoma Agricultural Aviation Association, Oklahoma City, Jan., 2007.
42. Royer, T.A. *Tree Pests*. Oklahoma Tree Care Workshop, Stillwater, OK. Nov., 2006
43. Royer, T.A. *Update on Turf Research*. Oklahoma Turfgrass Research Foundation Turf Conference and Trade Show, Stillwater, OK. Nov., 2006.
44. Royer, T.A. *The Dung Beetle; Its role in a year-round grazing system*. Oklahoma Grazing Lands Conference, Oklahoma City, OK. Aug., 2006.
45. Royer, T.A. *Sunflower and Grain Sorghum Insects*. National Crop Insurance Services, MPC I & Crop-Hail Sunflower, Soybean, Cotton & Grain Sorghum School, Stillwater OK. Aug., 2006.
46. Royer, T.A. *Hessian Fly and Aphids*. Bayer Seed Treatment Workshop, Enid, OK. Aug., 2006.
47. Royer, T.A. *University Update*. National Turfgrass Entomology Workshop. Clayton, NC. Feb., 2006.
48. Royer, T.A. *Critical Pests*. Conservation Tillage 101 Workshop. Enid, OK. Feb., 2006.
49. Royer, T.A. *Entomology*. Oklahoma Arkansas Turfgrass Shortcourse, Stillwater, OK. Jan., 2002, 2003 2004, 2005, 2006.
50. Royer, T.A. *Insect Management*. Oklahoma Turfgrass Research Foundation Turf Conference and Trade Show, Nov., 2005.
51. Royer, T.A. *Cereal Aphid and Armyworm Management*. Bayer Seed Treatment Workshop, Enid, OK. Aug., 2005
52. Royer, T.A. *Wheat Insect Management*. CCA Wheat Workshop, Lahoma, OK. May, 2004.
53. Royer, T.A. *Tree Borer Control*. International Society of Aboriculture. Tulsa. Feb., 2004.
54. *Electronic Publications in Wheat Entomology*, Oklahoma Certified Crop Advisors, Oklahoma State University, Stillwater, OK. Jan., 2004.
55. Royer, T.A. *Turf Entomology*. Estes Golf Course Superintendents Professional Training. Jan., 2004.
56. Royer, T.A. *Turf Entomology*. Oklahoma Turfgrass Conference and Trade Show, Tulsa, OK. Nov., 2003.
57. Royer, T.A. *Sampling for greenbugs in small grains*. Oklahoma Certified Crop Advisors, Oklahoma State University, Stillwater, OK. Jan., 2003.
58. Royer, T.A. *Insect Pest Problems in 2002*. Oklahoma Ag Expo, Oklahoma City. Nov., 2002.
59. Royer, T.A. *OSU Turf Entomology*. Oklahoma Turfgrass Conference and Trade Show, Grove, OK. Nov., 2002.
60. Royer, T.A. *Grasshopper Management in the Landscape*. OSU Turfgrass & Nursery/Landscape Field Day, Oklahoma State University, Stillwater. May, 2002.



61. Royer, T.A. *Insect Identification and Management of Ornamental Insects*. IPM for the Landscape Professional. Oklahoma State University, Stillwater. May, 2002.
62. Royer, T.A. *Wheat Insect Management*. CCA Wheat Workshop, Lahoma, OK. May, 2002.
63. Royer, T.A. *Glance n' Go Aphid Scouting*. Oklahoma Certified Crop Advisors, Oklahoma State University, Stillwater. Jan., 2002.
64. Royer, T.A. *Managing Insect Pests of Turf*. Oklahoma Turfgrass Conference and Trade Show, Grove, OK. Nov., 2001.
65. Royer, T.A. *Insecticide Mode of Action*. Oklahoma Ag. Expo. Oct., 2001
66. Royer, T.A. *Insect Pests of Sorghum*. CCA Summer Row Crops Workshop, Chickasha, OK. July 2001.
67. Royer, T.A. *Wheat pest management in Oklahoma: extending the progress*. May 2001. Department of Entomology and Plant Pathology, Oklahoma State University, Stillwater.
68. Royer, T.A. *Wheat and corn insect control*. Oklahoma Agricultural Aerial Applicators Association, Oklahoma City. Jan., 2001.
69. Royer, T.A. *Insect management using Bt corn*. Oklahoma Agricultural Aerial Applicators Association, Oklahoma City. Jan., 2001.
70. Royer, T.A. *Wheat insect management*. Oklahoma Certified Crop Advisors, Oklahoma State University, Stillwater. Jan., 2001.
71. Royer, T.A. *Wheat Insect Management*. May 2000. CCA Wheat Workshop, Lahoma, OK.
72. Royer, T.A. *Designing an IPM playbook for the next millennium*. Oklahoma Certified Crop Advisors Workshop, Stillwater. OK. Jan., 2000.
73. Royer, T.A. *Wheat Insect management update*. Oklahoma Certified Crop Advisors Workshop, Stillwater, OK. Jan. 2000.
74. Royer, T.A and K.L. Giles. Nov. 1999. *Southwestern corn borer insecticide efficacy*. Entomology Science Conference, College Station, TX.
75. Royer, T.A., K.L. Giles. 1999. *YieldGard benefits vs. Capture*. Monsanto YieldGard Academic Data Review. St. Louis, MO. Oct., 1999.
76. Royer, T.A. *Introduction to IPM*. Jan., 1999. Oklahoma Certified Crop Advisors Workshop, Stillwater, OK.
77. Royer, T.A. *Are Insects Bugging You, or, Here Today, Eaten Tomorrow: A Workshop for Insect Management in Museums*. Oklahoma Museums Association. Ardmore, OK. Sept., 1998
78. Royer, T.A. *Wheat insect management: Update*. Oklahoma Ag Expo, Oklahoma City. Jan., 1998.
79. Royer, T.A. *Bionomics of poplar petiolegall aphid in crucifer*. Department of Entomology, Oklahoma State University, Stillwater. Fall, 1997.
80. Barrett, B., J. Lloyd, P. Nixon and T. Royer. 1995. Insect Troubleshooting on Woody Ornamentals. 1st Annual Plant Health Care Workshop, St. Louis, MO.
81. Casey, L, T.A. Royer and N. Troxclair. 1995. Troubleshooting Field Crops. 21st Annual Illinois Crop Protection Workshop, Champaign.
82. Royer, T.A. 1995. New technologies for monitoring insect pests in landscapes. Southern Illinois Grounds Maintenance School, Collinsville, IL.
83. Royer, T.A. 1995. Insect Management Using Cover Crops. Illinois Specialty Growers Association, Decatur, IL.
84. Royer, T.A. 1995. Wheat insect pests. Illinois Wheat Association, Mt. Vernon IL.
85. Royer, T.A. 1994. Wireworms, white grubs and cutworm management. 20th Annual Illinois Crop Protection Workshop, Champaign, IL.
86. Royer, T.A. 1994. Effects of the flood on pests and pesticides: insects and insecticides. Illinois Specialty Growers Association, St. Charles, IL.
87. Royer, T.A. and M. E. Gray. 1994. Effects of the flood on pests and pesticides: insects and insecticides. 1994 Illinois Agricultural Pesticides Conference, Champaign, IL.
88. Royer, T.A. 1993. Wireworm and white grub management: what's old, what's new, what's tried, and what's true? 1992 Illinois Agricultural Pesticides Conference, Champaign, IL.

89. Weinzierl, R. and T. Royer. 1993. Grape Insect Pests. Southern Illinois Small Fruit and Strawberry School, Mt. Vernon. IL.
90. Royer, T.A. 1993. Early season insect pests: Biology and Management. 19<sup>th</sup> Annual Crop Protection Workshop, Champaign, IL.
91. Royer, T.A. 1992. Characteristics of insecticides: making better economic and environmental decisions when using these tools. 18th Annual Illinois Crop Protection Workshop, Champaign, IL.
92. Royer, T.A. 1992. Degradation of foliar-applied insecticides: how long will this insecticide last? 1991 Illinois Agricultural Pesticides Conference, Champaign, IL
93. Royer, T.A. Bionomics of poplar petiolegall aphid on crucifer. Presented: Department of Biology, Southern Illinois University, Edwardsville, 1992 and Department of Entomology, Texas A&M University, College Station, TX. 1990.

### **Extension Field Days, Producer Meetings and County Programs.**

**Participated in 500+ area/county extension meetings/field days in Oklahoma since arriving Jan. 1997.**

**Written 130+ news releases and newsletter contributions since arriving in 1997.**

Participated in 265+ county and area extension meetings from 1991-1996 in Illinois.

### **Citations in Media (Quotations):**

#### **Agricultural Aviation Magazine (Circulation 5,700)**

1. 06-07/2012 Bugging Out! Will this year's warm, mild winter lead to big bug runs this summer?

#### **AgFAX**

2. Oklahoma Wheat: Taking Technology to the Wheat Fields (Sean Hubbard author).
3. 09/06/2014 Oklahoma Wheat: Check now for fall armyworms.
4. 08/12/2015 Oklahoma Sorghum: Pest mangment-how to make a decision for this "Horse Race"?

#### **Bristow News and Record Citizen (Circulation 3,300).**

5. 09/10/2015 Fall webworms

#### **Daily Oklahoman: (circulation 151,000)**

6. 06/07/2014 Oklahoma could see grasshopper influx.
7. 08/14/2011 Oklahoma drought may drive grasshoppers into cities.
8. 09/13/2010 Spiders can be a problem in central Oklahoma.
9. 07/06/2010 Grasshoppers impact this year in Oklahoma uncertain.
10. 06/26/2010 Healthy population of fireflies lights up Oklahoma skies this season.
11. 02/17/2009 Oklahoma City schools bottle up pesticide use
12. 06/14/2007 Do you know what's bugging you
13. 10/04/2005 On a mission to seek and destroy: Armyworms take a toll on state's wheat crop.
14. 07/08/2003 Tangled webs: Infestation weaves bags of blight for trees in state
15. 06/08/2003 Hungry grasshoppers degrading pasture land
16. 07/14/2002 Cricket swarms give football fans common enemy
17. 07/25/2002 Bumper Crop of Pests: Grasshoppers plague all parts of Oklahoma
18. 10/26/2001 Creepy crawlers swarm area homes, yards: Box elder bugs stage Halloween infestation
19. 07/29/2001 Week in Review:

- 20. 07/26/2001 INSECT INFESTATION: Grasshoppers plague state's dry counties  
Pests, heat strain southern pastures.
- 21. 06/26/2001 Not so bad (Armyworms)
- 22. 06/17/2000 SUMMER PLAGUE: Warm winter brings hungry grasshoppers.
- 23. 10/03/1998 State Allowed Insecticide Use

The Eagle (Bryan/College Station TX) (average circulation 20,000)

- 24. 12/31/2012 Hop to it! Control grasshoppers before they starve out your herd.

Enid News and Eagle (average circulation 45,000)

- 25. 05/23/2015 Armyworms could pose problem for wheat crop.
- 26. 08/14/2014 Royer discusses sugarcane aphid
- 27. 11/12/2011 Leafhoppers going after winter wheat in canola
- 28. 09/11/11 False chinch bugs may target sorghum, soybean fields.
- 29. 09/18/10 Producers should scout for fall armyworms.
- 30. 09/04/09 Farmers need to look at Hessian fly in wheat.

High Plains/Midwest Ag Journal (average circulation 53,000)

- 31. 06/23/3014 Producers should check grasshopper populations now
- 32. 11/18/13 Beetles enjoying a buffet of saltcedar in Oklahoma.
- 33. 09/09/13 AgriLife Reseach-let team to tackle mite-vectored disease management.
- 34. 06/03/2013 Taking technology to the wheat fields.
- 35. 12/03/2012 Keep watch on wheat, canola for mites and moths.
- 36. 10/15/2012 Controlling grasshoppers in winter wheat, canola.
- 37. 11/21/11 Plant vampires attack winter wheat and canola
- 38. 10/11/2011 Diamondback moths reported in canola.
- 39. 10/07/2011 Check for armyworms in wheat, canola.
- 40. 09/19/2011 Check canola for effectiveness of seed treatments on aphids.
- 41. 09/11/11 False chinch bugs may target sorghum, soybean fields.
- 42. 07/06/11 Japanese beetles reported in soybeans.
- 43. 09/18/2010 Wheat, soybean producers should scout for fall armyworms.
- 44. 05/01/2010 Brown wheat mites showing up in wheat.
- 45. 04/14/2009 Greenbug scouting quick, easy and important for wheat producers.
- 46. 04/16/2008 Wasps help producers as "greenbug exterminators."
- 47. 07/30/07 Bin insect management not unique for low quality grain
- 48. 11/28/2005 Developments to wheat scouting system account for natural enemy.
- 49. 08/22/2002 Time to eliminate white grubs in yards, gardens.
- 50. 08/15/2001 Time to shake down grain sorghum for false chinch bugs.

Hollis News, (changed to the Red River Sun) (average circulation 1800).

- 51. 06/13/2013 Taking technology to the wheat field.
- 52. 08/15/2013 OSU researchers eradicate Hessian fly.
- 53. 09/19/2013 Salt cedars meet match with tiny beetle.
- 54. 10/17/2013 Armyworms discovered near Harmon County
- 55. 08/06/2014 Sorghum pest invades Oklahoma, Texas
- 56. 10/15/2014 Fall armyworms spotted in Harmon County
- 57. 07/01/2015 Sorghum growers should watch for sugarcane aphids

Kingfisher Times and Free Press (average circulation 3800)

- 58. 05/15/2016 Waving wheat, 2016 harvest looks sweet

**Land and Livestock Post (circulation 20,000, reaching 50,000 readers)**

- 59. 01/01/2013 Grasshoppers steal forage from livestock.
- 60. 05/20.2015 Grasshoppers and forage

**Lawton Constitution (average circulation 21,000)**

- 61. 06/15/2015 State expecting a 'Biblical' grasshopper infestation

**National Agricultural Aviation Association (May/June 2012)**

- 62. 05/07/2012 Bugging Out! PP 14-22  
<http://www.agaviation.org/sites/default/files/2012-may-june-cover-story.pdf>

**Newkirk Herald Journal, Shawnee News-Star, Ponca City News, Examiner Enterprise (Bartlesville), Ardmoreite (Ardmore)****Oklahoma Farm Report**

- 63. 09/14/2016 Multi-state Team of Experts Collaborating to Research Crop-Jumping Pests after Sorghum Infestation.
- 64. 05/18/2016 OSU's Dr. Tom Royer Talks Aphids of All Kinds and How They're Impacting Oklahoma's Crops
- 65. 05/26/2015 Dr. Royer Recommends Farmers Watch for Armyworms in Wheat
- 66. 10/07/2014 Armyworms Invading Oklahoma Wheat Fields-Tom Royer Says Time to Scout and Attack is Now.
- 67. 08/15/2014 Watch for Sorghum Midge in Late-Blooming Sorghum
- 68. 06/06/2014 Warning! Grasshopper Numbers Could Be Crazy This Summer- Tom Royer Says Treat Now
- 69. 02/20/2014 Canola Producers, Researchers Getting a Handle on Pest Management, Royer Says
- 70. 11/21/2013 Beetles enjoying a buffet of saltcedar in Oklahoma.
- 71. 11/19/2012 Armyworm video helps wheat producers identify, solve problems.
- 72. 11/02/2012 Mites and Moths: A fall for keeping a vigilant watch on wheat and canola.
- 73. 09/28/2012 OSU entomologist offers tips on controlling grasshoppers in wheat and canola
- 74. 04/22/2012 Scout for Cutworms/Armyworms and spray when you find them in your canola
- 75. 04/17/2012 Watch for armyworms
- 76. 02/02/2012 Start looking form army cutworms in alfalfa, canola, and wheat.
- 77. 10/12/2011 Producers need to watch out for diamondback moths in seedling canola
- 78. 10/21/2011 Producers need to check canola for effectiveness of seed treatments on aphids
- 79. 10/25/2011 A dry fall means "Plant Vampires" in wheat and canola
- 80. 07/05/2011 Northeastern Oklahoma soybean fields spotted with Japanese beetles
- 81. 07/05/2011 False chinch bugs threat moving to Oklahoma sorghum and soybean
- 82. 09/23/2010 Scouting for armyworms-here are pictures to know what to look for
- 83. 10/31/2008 OSU Extension Officials-especially Dr. Tom Royer has been left with an empty bag as the 2008 farm law has locked up ALL the treats.

**Plant Management Network: Crop News**

- 84. 08/15/2014 Watch for sorghum midges in late-blooming sorghum.
- 85. 07/25/2011 Japanese beetles seen in northeastern Oklahoma soybean fields.
- 86. 09/01/2010 Oklahoma producers should scout for fall armyworms
- 87. 05/01/2010 Check for brown wheat mites in winter wheat.

**Southwest Farm Press (circulation 29,400)**

- 88. 08/07/2014 Sugarcane aphid expanding rante across southwest grain sorghum

- 89. 09/28/2012 Grasshopper control in winter wheat and canola
- 90. 07/05/2011 False chinch bugs in soybeans
- 91. 04/14/2009 Greenbug scouting easy
- 92. 11/18/2004 New tool for managing greenbugs, Glance 'n Go

**Tulsa World: (circulation 101,000)**

- 93. 05/30/2007 Armyworms could damage wheat, hay pastures across much of state
- 94. 07/08/2003 Oklahoma climate has caused webworm infestation
- 95. 06/12/2003 State grasshopper population expected to jump
- 96. 07/26/2001 Grasshopper's invade Oklahoma's driest counties
- 97. 05/30/2001 Worm invasion a tossup
- 98. 05/23/2001 Moths invade! Worms on way?
- 99. 05/16/2001 Briefs: Armyworms prepare march through Tulsa area
- 100. 06/26/2001 Not so bad (Armyworms)
- 101. 07/13/1999 They're back
- 102. 10/03/1998 Under siege

**Samuel Roberts Noble Foundation Newsletter**

- 103. 11/01/2007 Glance 'n Go: A simple scouting methods for greenbugs.

**KFOR News Channel 4, Oklahoma City**

- 104. 09/06/11 Black widow spiders

**KWTV Channel 9 Oklahoma City**

- 105. 07/25/2002 Grasshopper problems.
- 106. 09/14/2002 Cricket invasion

**KTUL, Channel 8, Tulsa**

- 107. 09/15/2002: Cricket invasion

**KOSU 91.7 FM Public Radio**

- 108. 11/05/10 Everything you need to know about bed bugs.
- 109. 05/01/01 Fall armyworms in lawns.

**Oklahoma Horizon (Channel 3) Rural Media Group**

- 110. 12/12/10. Bed bugs. (220 views on You Tube)

**Fox News 25.**

- 111. 07/13/2016. Oklahoma's fall webworm infestation "worst in 20 years".
- 112. 06/30/09. False Chinch bug invasion.

**Oklahoma Gardening (OSU weekly program, 60-90,000 viewers, 68,613 views on YouTube)**

- 113. 10/19/13 Yucca bug control (381 views on You Tube)
- 114. 9/28/13 Hackberry Emperor Butterfly (168 views on You Tube)
- 115. 07/06/12 IPM (44 views on You Tube)
- 116. 07/06/12 IPM Scouting (215 views on You Tube)
- 117. 07/06/12 IPM Trapping and monitoring (188 views on You Tube)
- 118. 07/21/2012 IPM: Managing fleas and ticks in the landscape (167 views on You Tube)
- 119. 07/01/10 Preventive grub control (59,146 views on You Tube)
- 120. 06/02/10 Tick control in the landscape (7,399views on You Tube)
- 121. 06/27/2009 IPM: Corrective measures (43 views on You Tube)

122. 06/08/09 IPM Tools: Physical and Mechanical (131 views on You Tube)

123. 06/18/08 Salt Cedar Biological Control (730 views on You Tube)

Sunup (OSU weekly Agriculture Program, 20,000-25,000 viewers, 12,703 views on YouTube)

124. 06/03/2017 Insects in the winter crops.

125. 04/01/2017 Fire ants: are they as bad as you think? (41 views)

126. 03/12/2017 Pest in crops update (32 views)

127. 09/17/2016 Count the legs before you spray (105 views)

128. 07/23/2016 Sugarcane aphids in Oklahoma, Again. (207 views)

129. 04/30/2016 Insect update (43 views).

130. 10/03/2015 Armyworms: Wheat and canola's biggest enemy? (89 views)

131. 08/01/2015 Sugarcane aphids (650 views)

132. 03/21/2015 Army cutworms (83 views)

133. 10/11/2014 Fall armyworms (207 views)

134. 08/02/2014 Sugarcane aphids (152 views)

135. 06/07/2014 Grasshopper management in rangeland/pastures (130 views)

136. 01/17/14 Wheat and canola insect update (89 views).

137. 10/26/13 Salt Cedar Beetles (201)

138. 07/06/13 Grasshopper options (81 views)

139. 05/11/13 Wheat and greenbugs iWheat (43 views)

140. 09/08/12 Grasshoppers and wheat (171 views)

141. 04/20/12 How to identify and scout for armyworms (1,111 views)

142. 07/23/11 Grasshoppers in soybeans (213 views)

143. 09/24/10 Scouting for fall armyworms (1,763 views)

144. 08/20/10 Insect sampling techniques (5,093 views)

145. 04/16/10 Aphid sampling techniques (931 views)

146. 03/18/09 Greenbug and Glance 'n Go (55 views)

147. 05/05/09 Musk thistle weevil roundups (462 views)

148. 08/26/09 Pest Management for producers about to plant wheat (792 views)

The Division Triangle (Oklahoma State DASNRR Publication)

149. 11/10 Biological Control of Saltcedar in Oklahoma (Shawn Hubbard author)  
pp 32-33

**TEACHING/INSTRUCTION** (Listings in **Bold letters** were conducted at OSU)

**Graduate Students (Chair):**

**Jess Lindenmayer (Ph.D.)**

**Xandra Robideau M.S. (Dec 2014)**

**Beth Ferguson M.S. (Dec 2014)**

**Alissa Berro, M.S. (Dec, 2011)**

**Jake Dorskocil, M.S. (May, 2007)**

**Makuena Lebusa, M.S. (December, 2004)**

**Graduate Student (Committee member/CoChair):**

**Haley Butler (M.S. 2017)**

**Will Jessie (Ph.D. Candidate)**

**Charles Koneman (M.S. 2017)**

**Trisha Dubie (Ph.D., 2014)**

**Nate Bradford (M.S. 2014)**

**Casi Jessie, M.S. (2012)**

**Kody Mullins M.S. (2010)**  
**Warren Hanson M.S. (Environmental Science, 2011)**  
**Dayna Alvey M.S. (2009)**  
**Tanya Franke Ph.D. (Ag Education, 2009)**  
**Carmen Russell, M.S. (Ag Education, 2009)**  
**Mutki Ghimire M.S. (2008) PhD**  
**Kaushalya Amarasakare M.S. (2004)**  
**Kenny Brown M.S. (2002)**  
**Onesimus Otieno Ph.D. (2002)**  
**Tereria Nyamanzi M.S. (Plant Pathology, 2002)**  
**Andy Hollen M.S. (Weed Science, 2001)**  
**Doug Jones M.S. (2001)**  
**Brian Olson, M.S. (Plant Pathology, 2001)**

**Lab Supervisor:**

**Ryan Blake (Undergraduate)**  
**Shayla Burnett (Undergraduate Work Study)**  
**Sunny Evans (Undergraduate Work Study)**  
**Ben Hellie (Undergraduate student)**  
**Doug Jones (Lab Research Assistant)**  
**Samantha Kaiser (Undergraduate)**  
**Shane McMurray (Horticulture Intern)**  
**Anndrea Navesky (Lab Research Assistant)**  
**Kishan Sambaraju (CAPS survey)**  
**Sean Stebler (CAPS survey)**  
**Kylie Volk (Undergraduate Work Study)**

**Instructor:** (Listings in **Bold letters** conducted at OSU):

1. **Entomology 3331. Agronomic Insects, Spring Co-instructor (2006), Instructor (2007, 2008, 2009, 2011, 2013, 2017).**
2. Biology 111: Introductory Biology. Department of Biology, Southern Illinois University-Edwardsville, Spring 1994

**Guest Lecturer** (Listings in **Bold letters** conducted at OSU):

1. **PSS 3883 *Sustainable Agriculture*. Spring, 2010, 2011 (1 lecture).**
2. **ENTO/PLP 3343 *Principles of Plant Pathology*. Fall 2007, 2009, 2011, 2012, 2013, 2014, 2015, 2016 (1 Lecture)**
3. **Environmental Science IPM Fall 2006, 2007, 2008 (1 Lecture)**
4. **ENTO/PLP 3421. *Horticultural Insects*. Spring 2003, 2008. (1 lecture)**
5. **ENTO/PLP 3663. *Turfgrass IPM*. Fall 2002, Spring 2003, 2005, 2007, 2009, 2011 (4 lectures, 2 labs)**
6. **ENTO/PLP 4922: *Applications of Biotechnology in Pest Management* Spring 2002, 2004 2011. (1 lecture)**
7. **Horticulture 2117: *Indoor Plants & Interior Landscaping*. Spring 2001, 2002. (1 lecture)**
8. **ENTO/PLP 4223, *Ecological Methodology*. (1 lecture)**
9. **ENTO/PLP 5513, *Biological Control*. Fall 1999, 2001, 2003, 2005, 2007, 2009, 2011, 2013 (1 lecture).**
10. **ENTO/PLP 5560, *Careers and Professionalism*. Fall 1997 (1 lecture).**
11. **ENTO/PLP 5613, *Host Plant Resistance* Fall 2010, 2012, 2014, 2016 (1 lecture)**

12. Entomology 319: *Fundamentals of Insect Pest Management*, University of Illinois. Cotton IPM 1992.

**SERVICE:** (Listings in **Bold letters** conducted at OSU)

DEPARTMENT

**Co-Chair, Extension Program Committee 2009-  
Reappointment, Promotion and Tenure Committee, 2008-2013**

**Search Committees:**

**Assistant Professor, Entomology, 2014.**

**Assistant Professor, Pesticide Education and Extension Entomologist, 2012**

**(Chair) Assistant Professor, Extension Entomology, Fruits, Nuts and Vegetables. 2009**

**Assistant Professor, Stored Grains Entomology, 2007**

**(Chair) Assistant Professor, Extension Entomology, Turf and Ornamentals 2006**

**Assistant Professor, Entomology, 2006**

**Assistant Professor, Livestock Entomology, 2005**

**Endowed Professorship, Structural and Urban Entomology, 2000**

**Seminar Co-coordinator, Fall 2002**

**Department of Entomology Insect Zoo participant, 1997-2000**

**Secretary, Departmental Retreat, 1997**

**Caring for Planet Earth, participant, Tulsa State Fair, 1997-2000**

**Ad-hoc committee to develop non-thesis M.S. degree**

DIVISION/UNIVERSITY

**Division of Agricultural and Natural Resources:**

**Search Committee: Dean and VP, DASNR, 2012**

**Presenter: Future Ag Leaders Conference, Professor Luncheon 11/03/12.**

**Search Committee, Weed Science Assistant Professor, 2008**

**Search and Screen Committee: Plant and Soil Science Department Head, 2007**

**Deans Water Task Force, 2007**

**CASNR Scholarship Committee, 2007**

**Agricultural Faculty Council, 2001-2003, 2008-2010 (Chair, 2009-2010)**

**Oklahoma Cooperative Extension Service**

**Co-Chair, Oklahoma Cooperative Extension Conference, 2005-2007.**

**IPM Initiative Team: Chair 2008-**

**Sustainable Agriculture Advisory Committee: 2008-**

**Search Committee: Area Pest Management Specialist 2004, 2007(Co-Chair).**

**Government Performance and Results Act (GPRA) Team, 1997**

**Performance Appraisal Committee, 2001-02.**

**Professional Development Committee, 2001-2004**

**Oklahoma State University**

**Athletics Council 2015-17**

**Faculty Council, 2014-2017**

**Chair, FC Athletics Committee, 2014-2017**

**Strategic Plan Evaluation Task Force, 2004**

**Student Mentor, 1997-1999**

**Faculty Associate, 1999-present**

**Graduate Faculty, 1998-present**

**Oklahoma State University, Oklahoma City**

**Advisory Board, Agricultural and Horticultural Programs, 2007-**

**Payne County Horticultural Advisory Board, 2007.**



Purdue University, Purdue Pest Control Conference Planning Committee, 1996-97  
 Computer Coordinator, Edwardsville Extension Center. 1992-1994  
 Chair, Credentials Review Team; Horticulture Educator, 1994; Clinton County Unit Leader, 1992  
 U. of Illinois CES State Program Planning Committee, 1992  
 U. of Illinois CES State Ad Hoc Technical Advisory Committee, 1992  
 U. of Illinois IPM Advisory Panel; Member, 1991-1997  
 U. of Illinois, Illinois Crop Protection Workshop, Program Planning Committee, 1996  
 U. of Illinois, Illinois Field Crop Pest Management Short course, Program Planning Committee, 1992-1996  
 Texas A&M University, Graduate Student Council, 1988-1989

PROFESSIONAL (Listings in **Bold letters** conducted at OSU)

**Entomological Society of America (member since 1981)**

**Presidential Committee on a Grand Challenge Agenda for Entomology, 2014**

**Editor-in-Chief, Arthropod Management Tests, 2008-2012**

**Subject Editor, Journal of Integrated Pest Management, 2010-  
 Program Committee, 2003-2007.**

**Co-chair: Student Competition 2005**

**Co-chair: Program 2006**

**Co-Chair: Posters 2007**

**Chair, Section E 2003, Chair-elect, 2002, Secretary, 2001**

**Chair, Section Ea 2000, Chair-elect, 1999 Secretary, 1998**

**ESA Award Committee, 2004-2006, 2008, 2009 (Chair).**

**Membership Committee, 2004-2006**

**Panel Judge:**

**Distinguished Achievement Award in Extension Entomology 2009-**

**Entomological Foundation Awards, Excellence in Integrated Pest Management  
 Poster Competition, 1998**

**10-minute Student Presentations, Section F, 2002**

**10-Minute Student Presentations, 2001**

Resolution Committee, 1994, **2008**

Student Affairs Committee, 1988-1990, *Chair* 1989

NC Branch:

Poster Planning Committee, 1994

Judge, Student Paper Competition, 1992

**SW Branch:**

**President, 2010-11**

**Vice President, 2009-10**

**Secretary/Treasurer, 2008-09**

**Local Arrangements, 2003, 2014**

**Membership Committee, 1997; Chair, 2004-05**

Student Affairs Committee, 1988-1990

**International Association for the Plant Protection Sciences**

**Oklahoma Association of Extension Agricultural Agents**

**Director, State Specialists 2001-2002**

**Oklahoma Crop Improvement Association,**

**Small Grains and Specialty Crops Committees, 1997-**

**Regional Cooperative Agricultural Pest Survey (CAPS) Action Team, 1997-2000**

**Southwest Wheat Research and Education Consortium, 1997-present;**

**Steering Committee, 1999-2005, Chair, 2003-04**

**Society of Southwestern Entomologists, 1984-1991, 1997-**

**President, 2005****National IPM Coordinating Committee (2016-2018)****SERA-003 Southern Extension/Education Research Activity: IPM (Chair, 2012)****WERA-066 Western Extension/Education Research Activity: Integrated Management of Russian Wheat Aphid and other Cereal Arthropod Pests (Chair 2009)****Panel/Proposal Reviewer:****NSF Graduate Research Fellowship Panel, 2016.****Panel Chair: USDA NIFA NP 304 Peer Review Panel 2015****North Central Region R- IPM Program, 2002, 2010, 2011.****Relevance Review, Southern Region IPM Center, 2008-2009.****Southern Region IPM program 2006.****SARE Sustainable Research and Education program 2008, 2009, 2013, 2014, 2016****USDA CSREES National Research Initiative Competitive Grants, Biologically Based Pest Management Program, 2006.****Editor (Journals):****Arthropod Management Tests (Editor-in-Chief, 2007-2012)****Journal of Integrated Pest Management (Subject Editor, 2010- )****Editorial Committee: Southwestern Entomologist 2015-****Reviewer (Journals):****Agronomy for Sustainable Development; American Entomologist; Arthropod Management Tests; Annals of the Entomological Society of America, Australasian Plant Pathology, Biocontrol Science and Technology, Crop Management (PMN On-line Journal); Crop Protection; Environmental Entomology; European Journal of Entomology; Florida Entomologist; Great Lakes Entomologist; Hort Technology; Insect Science; Journal of Economic Entomology; Journal of the Kansas Entomological Society; Journal of Integrated Pest Management Phytoparasitica; Southwestern Entomologist; USDA ARS PSWCRL publications.****AWARDS AND RECOGNITION: (Listings in Bold letters awarded at OSU)****Southern IPM Center, Friends of IPM “Pulling Together” Award 2016: Sugarcane Aphid Team.****Southern IPM Center, Friends of IPM “Bright Idea” Award 2011: The Okanola Project.****Integrated Pest Management (IPM) Professional Achievement Award: 2010, OCES for Musk Thistle Weevil Education/Control.****Entomology Society of America, SW Branch: 2007 Distinguished Achievement Award in Extension.****Who’s Who in America, 2005, and Who’s Who in Science and Technology, 2005.****National Association of County Agricultural Agents. 2002. Communications Award, Class 11 Publication.****Oklahoma Agricultural Extension Agents Association, 2002. Communications Award, Class 11 Publication.****Agronomy Society of America, 1998. Certificate of Excellence for outstanding agronomic educational material, 1998, 2002, 2006, 2008, 2010.****Adjunct Assistant Professor (1993-1997): Biology Department, Southern Illinois University-Edwardsville.****Affiliate Research Biologist: (1991-1997), Illinois Natural History Survey****Region 6 Extension Educator of the Year, 1994. University of Illinois CES.****Mary Johnston Scholarship for academic excellence, 1990 (\$500.00).****Honor Societies:**

Elected, Gamma Sigma Delta, 1983

Elected, Phi Kappa Phi, 1983

Elected, Sigma Xi, 1990