

**CHAIR OF BIOLOGICAL SCIENCES – COLLEGE OF SCIENCES AND MATHEMATICS  
PROFESSOR OF ENTOMOLOGY (TENURED)**

Arkansas State University, Jonesboro, AR

**– ACADEMIC PROFILE –**

Helping to build partnerships across disciplines and support continuous improvement in departmental/university policy, assessment, and long-term planning. Instilling trust and visionary leadership. Over 11 years of administrative experience.

Research interests include integrated pest management of stored product insects (on-farm and rice milling), integrated mosquito management related to canine heartworm interactions, dung beetles and their importance in cattle pastures, and controlling flies using biological control in poultry and dairy facilities. More than 19 years of experience in active research, mentoring undergraduate and graduate students and teaching undergraduate and graduate level courses in entomology and biological sciences.

Experiences in setting up and running a very-well funded, interdisciplinary, collaborative research program. Successfully secured over \$9 million in research grants from the United States Department of Agriculture- National Institute of Food and Agriculture, National Science Foundation, and other resources.

**ACADEMIC POSITIONS**

<b>2023 – Present</b>	Chair of Biological Sciences, Arkansas State University, Jonesboro, AR
<b>2025 – Present</b>	Interim Co-Chair of the Department of Chemistry & Physics, Arkansas State University, Jonesboro, AR
<b>2023 – 2024</b>	Interim Chair of the Department of Biological Sciences, Arkansas State University, Jonesboro, AR
<b>2004 – Present</b>	Professor, Entomology, Arkansas State University Promotion and tenure 2009 (promoted to Professor in 2015)
<b>2021 – Present</b>	Joint appointment, University of Arkansas Experimental Station, Fayetteville, AR
<b>2008 – 2018</b>	Joint appointment, University of Arkansas Experimental Station, Fayetteville, AR
<b>2002 – 2004</b>	Research Associate, Veterinary Entomology, Department of Entomology, University of Arkansas, Fayetteville, AR

**1998 – 2002**

Teaching Assistant, Department of Entomology, Kansas State University, Manhattan, KS

**1995 – 1998**

Research Assistant/Teaching Assistant, Department of Entomology, University of Manitoba, Winnipeg, MB, Canada

## EXPERIENCE HIGHLIGHTS

### **CHAIR OF BIOLOGICAL SCIENCES**

**Department of Biological Sciences, Arkansas State University, January 2024 – Present**

*(Interim Chair: June 2023-January 2024)*

>500 students | 8 degrees | 3 campuses (Jonesboro, AR; Querétero, Mexico; Doha, Qatar)

*Collaborating to shape, implement, and assess department efforts in student success and faculty development*

**SCOPE OF RESPONSIBILITIES:** Course & curriculum development | Course scheduling | Course transfer process | Recruiting & retaining students & faculty | Faculty & staff evaluations | Oversight of department budget and planning | Academic program review | Strategic planning | Assessment & reporting | Cross- and inter-campus communication | Bearitage Environmental Field Station logistics | Oversight of seven field vehicles and department facilities

**COLLABORATORS:** Faculty & staff | University executive administration | Graduate School | Alumni Association | A-State Foundation

### **ASSOCIATE CHAIR OF BIOLOGICAL SCIENCES**

**Department of Biological Sciences, Arkansas State University, May – June 2023**

*Previously served as Interim Associate Chair August 2022 – May 2023*

*Coordinated with the Chair of the Department on curricular activities, strategic planning and program review*

**SCOPE OF RESPONSIBILITIES:** Course scheduling | Course & curriculum development | Recruiting & retaining students | Academic program review | Strategic planning | Cross- and inter-campus communication

**COLLABORATORS:** Faculty & staff | University executive administration | Graduate School

## KEY INITIATIVES & TEAM ACHIEVEMENTS

**Academic quality.** Provided support to the department chair on departmental activities.

- Ensured program viability by working with faculty on academic review of courses and curriculum.

### **Strategic planning.**

- Led Ad Hoc Committee for the College to develop a new faculty workload policy, collaborated with the Dean to write new policy.
- Helped with the department's academic program review required by the state of Arkansas Department of Higher Education.

### **Student success.**

- Coordinated student recruitment and advising.
- Helped with student awards and recognition events.

**DIRECTOR OF THE ENVIRONMENTAL SCIENCES (EVS) GRADUATE PROGRAM, July 2012 – May 2021**

**DIRECTOR OF THE MOLECULAR BIOSCIENCES GRADUATE PROGRAM, January 2018 – May 2021**

**College of Sciences & Mathematics, Arkansas State University**

*Previously served as Assistant EVS Director, August 2010 – July 2012*

>45 graduate students | 2 Ph.D. degrees, 3 M.S. degrees

*Collaborated to shape, implement, and assess the two programs' efforts in student success*

**SCOPE OF RESPONSIBILITIES:** Course & curriculum development | Course scheduling | Course transfer process | Recruiting & retaining students | Staff evaluations | Oversight of program budgets and planning | Academic program review | Strategic planning | Assessment & reporting | Cross- and inter-campus communication | Coordinated faculty from other colleges to teach in programs

**COLLABORATORS:** Faculty & staff | Graduate students | University executive administration | Graduate School | Alumni Association | A-State Foundation

The cross-Disciplinary **Environmental Sciences (EVS) Graduate Program** at A-State provides training and research opportunities in areas of biological and physical sciences to students, both national and international, seeking doctoral and master's degrees. The mission of the Environmental Sciences Program is to train the next generation of scientists with the knowledge needed to support the assessment, maintenance, sustainability, and recovery of environmental resources. This includes an appreciation of the economic, social, political, and aesthetic context that shapes our interaction with and knowledge of the environment. Measuring and understanding the balance between environmental protection, sustainable resource management, and economic growth is a major integrating theme within the program.

The cross-disciplinary Molecular Biosciences field is revolutionizing discovery and technological advances in disciplines ranging from agriculture to medicine, from forensics to environmental sciences, from food sciences to renewable energy. The **Molecular Biosciences (MBS) Graduate Program** provides training and research opportunities that integrate cellular, molecular, developmental and genomic information. The program has a strong emphasis on interdisciplinary approaches, state-of-the-art technologies and innovation to address real world problems.

### **Activities & Achievements**

- Initiated the EVS and MBS Oversight Committees to involve faculty in developing policies and procedures.
- Engaged faculty in curriculum revision.
- Developed new forms for the programs.
- Led unit faculty meetings in visioning and assessment of program outcomes, course and curriculum, and student and alumni recognition.
- Led two academic program reviews that are required by the state of Arkansas Department of Higher Education every 9 years.

- Completed two comprehensive self-studies for the programs and worked with the faculty steering committees to provide an in-depth analysis for all degrees and a long-range strategic plan for the programs. Completed follow-up reports.
- Represented the two graduate programs at university meetings.
- Coordinated student recruitment and advising especially from underrepresented groups.
- Secured funding to provide research and travel support for students and faculty mentors,
- Recruited and coordinated faculty to teach in the two programs.
- Trained students on various topics of professional development (i.e., grant writing; leadership, etc.), ethics and responsible conduct, and encouraged students to obtain research fellowships from National Science Foundation, Environmental Protection Agency and other agencies.
- Encouraged students and faculty to have multi-cultural exposure and sensitivity training since graduate students come from different countries and backgrounds.
- Coordinated student socials, award, and recognition events.
- Coordinated with Graduate School and EVS and MBS Advisory committees on assessment processes, curriculum revisions, and handbook revisions.

## EDUCATION

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- Ph.D., Entomology, Kansas State University, Manhattan, KS (2002)
- M.S., Entomology, University of Manitoba, Winnipeg, Manitoba, Canada (1998)
- B.S., (Honors Conversion), Biology, Acadia University, Wolfville, Nova Scotia, Canada (1995)
- B.S., Biology, Acadia University, Wolfville, Nova Scotia, Canada (1994)

## SUMMARY OF RESEARCH, SCHOLARSHIP, AND FUNDING

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Research focuses on stored product insects (on-farm and rice milling), integrated mosquito management related to canine heartworm interactions, dung beetles and their importance in cattle pastures, and controlling flies using biological control in poultry and dairy facilities (Pteromalid parasitoids). Journal reviewer for multiple professional organizations, participated in federal grant reviews. Advisory member for the United States Aid & International Development. Past advisory member for Novartis Animal Health, Ceva Animal Health

- 39 manuscripts (17 co-authored with students)
- 24 invited talks (since 2006)
- 81 International, National, and Regional Presentations and Published Abstracts (as co-author; since 2009)
- Subject Editor (Veterinary) Journal of Economic Entomology (2008-2017)
- 9 journals (ad-hoc reviewer)
- 2 book chapters (1 co-authored with a student)
- 27 grants, contracts, and awards totaling more than **\$9 million** (external) in funding

## SUMMARY OF TEACHING

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- Considerable experience in teaching, each semester usually teaching two entomology classes
- Taught graduate and undergraduate courses in entomology and biological sciences; students from all backgrounds and focus on **equity, diversity** and **inclusion** in my teaching and research program

- Research advisor for over 13 graduate students, served/or serving on 21 graduate student thesis/dissertation committees, and had over 25 undergraduate students working in my laboratory on various entomology projects
- Advised and mentored undergraduate students, co-supervised pedagogical applications in practicum experiences, and mentored research with developing scholars

## GRANTS & CONTRACTS

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- McKay, T.**, G. Kim, D. S. Scheff, D. L. Brabec, J. F. Campbell, M. E. Casada, W. R. Morrison III, E. D. Scully, M. Wei, and K. Y. Zhu. Improving the efficacy of methyl bromide alternatives for stored grains in food grade shipping containers. United States Department of Agriculture, National Institute of Food and Agriculture, Methyl Bromide Transition Program. \$420,391. A-State: Lead institution, with subawards to Kansas State University & USDA-ARS, Manhattan, KS. Sept. 1, 2023 – Aug. 31, 2026.
- Zhu, K. Y., W. R. Morrison III, **T. McKay**, G. Bingham, T. W. Phillips, J. F. Campbell, E. D. Scully, D. S. Scheff, and A. Gerken. Developing a rapid response protocol for phosphine resistance management at food facilities by leveraging tools at or close to market. United States Department of Agriculture, Crop Protection and Pest Management Competitive Grants Program. \$324,979, A-State: \$41,000. Sept. 1, 2023 – Aug. 31, 2026.
- Boves, T., **T. McKay**, and V. Rolland. Improving human health and eco-agricultural integration in the Mississippi Delta via integrated pest control. Arkansas Biosciences Institute, Jul. 1, 2022 – June 30, 2023. \$70,000.
- Zhu, K. Y., W. R. Morrison III, **T. McKay**, G. Bingham, J. Ruberson, J. Campbell, T. Phillips, F. Arthur, E. Scully, D. Scheff, and A. Gerken. Maximizing adoption by demonstrating the compatibility of insecticide netting with diverse pest management tactics at food facilities. United States Department of Agriculture, Crop Protection and Pest Management Competitive Grants Program, Sept. 1, 2020- Aug. 31, 2023. \$324,963. A-State: \$60,000.
- Bouldin, J. and **T. McKay**. Native bee community composition in Mississippi Delta soybean fields and their effect on yield. United States Department of Agriculture, Non-Land Grant Colleges of Agriculture Program. Oct. 1, 2018 - Sept. 30, 2023. \$149,988.
- Zhu, K. Y., W. R. Morrison III, **T. McKay**, G. Bingham, J. Campbell, T. Phillips, F. Arthur, E. Scully, D. Scheff, and A. Gerken. Developing and implementing a diversified integrated pest management program to prevent stored product insect infestation. United States Department of Agriculture, National Institute of Food and Agriculture, Crop Protection and Pest Management Competitive Grants Program. Sept. 1, 2017 - Aug. 31, 2021. \$325,000. A-State: \$71,515.
- Marsico, T. D., D. Saar, **T. McKay** and B. Fluker. COLLABORATIVE RESEARCH: Upper Delta Region Biodiversity Scholarship. National Science Foundation. Aug. 15, 2016 - July 31, 2021. \$3,271,703.
- McKay, T.**, F. Arthur, J. F. Campbell, L. T. Wilson, Y. Yang, B. Adam, J. M. Beuzelin. Alternatives to methyl bromide for effective integrated pest management in rice mills. United States Department of Agriculture, NIFA, Methyl Bromide Transition Program, Sept. 1, 2014 - Aug. 31, 2017. \$475,638.

- McKay, T.** Integrated pest management programs for on-farm rice storage. The Arkansas Rice Research and Promotion Board. April 1, 2014 - March 31, 2015. \$25,000.
- McKay, T.** Integrated pest management programs for on-farm rice storage. The Arkansas Rice Research and Promotion Board. April 1, 2013 - March 31, 2014. \$25,000.
- Pratte, J., T. Marsico, A. Hashim and **T. McKay**. The Experiential Learning Fellowship (ELF) Program. National Science Foundation 2011-2016. \$567,185.
- McKay, T.,** F. Arthur, J. F. Campbell, L. T. Wilson, Y. Yang, B. Adam, T. E. Reagan. Integrated pest management programs to reduce reliance on methyl bromide fumigation in rice mills. United States Department of Agriculture, National Institute of Food and Agriculture, Methyl Bromide Transition Program, Sept. 1, 2011 - Aug. 31, 2015. \$450,502.
- Yanowitz, K., **T. McKay** and A. Ross. CSI: Classroom Student Investigations. National Science Foundation 04-611 Innovative Technology Experiences for Students and Teachers Program. June 1, 2011 - May 31, 2014. \$1,000,000.
- McKay, T.** The efficacy of lufenuron and fipronil used in an integrated flea control program in an Arkansas horse facility: a case study. Novartis Animal Health, July 11, 2011 – Nov. 30, 2011. \$15,010.
- McKay, T.** Attraction of natural populations of adult female mosquitoes. Susan McKnight, Inc. Aug. 15, 2010 – Nov. 15, 2010. \$5,250.
- McKay, T.** Survey of mosquito vectors of dog heartworm. Novartis Animal Health, Sept. 2008 - May 2010. \$68,000.
- McKay, T.** Molecular diagnostics of mosquitoes. Arkansas Biosciences Institute. July 2008 - June 2009. \$15,000.
- Bednarz, J.C., B. L. Noel and **T. McKay**. The breeding and foraging ecology of Pileated Woodpeckers in the bottomland forests and swamps of eastern Arkansas with reference to the conservation of the Ivory-billed Woodpecker. U. S. Department of the Interior Fish and Wildlife Service. July 2009-June 2010. \$595,000.
- Wilson, L. T., Y. Yang, F. H. Arthur, James Campbell, T. Siebenmorgan, J.-F. Meullenet, B. Adam, T. E. Reagan and **T. McKay**. Integrated post-harvest rice management and information delivery: optimizing insect control and grain quality. United States Department of Agriculture Cooperative State Research Education and Extension Service-Risk Avoidance and Mitigation Program. October 2007-2011. \$612,199.
- Yanowitz, K. S. Vanderpool, **T. McKay** and A. Ross. CSI: Arkansas. National Science Foundation 04-611 Innovative Technology Experiences for Students and Teachers Program, provide training to teachers and students on STEM careers and information technology. Oct. 2006 - Sept. 2011. \$1,006,800.
- McKay, T.** and D. Gilmore. Survival of experimentally introduced bacteria in the house fly, *Musca domestica* L. Research Faculty Award, Arkansas State University. July 1, 2006 - June 30, 2007. \$4,845.

- McKay, T.** and A. D. Christian. 2006. Macroinvertebrate Biodiversity. 2005-2006 No Child Left Behind Program, U.S. Department of Education. Arkansas Department of Higher Education. \$27,753.
- Dowling, C. and **T. McKay**. 2005. The bioaccumulation of arsenic in plants and insects. Arkansas Biosciences Institute. \$61,686.
- McKay, T.** and A. D. Christian. 2005. Understanding biodiversity using aquatic macroinvertebrates. 2004 - 2005 No Child Left Behind Program, U.S. Department of Education. Arkansas Department of Higher Education. \$33,700.
- Loftin, K. M., **T. McKay**, K. Vandevender, C. D. Steelman, A. L. Szalanski, W. Watson and A. Chapa. 2004. Using parasitoids in an integrated pest management approach to control flies on dairy farms. Southern Region Sustainable Agriculture Research and Education Grant, United States Department of Agriculture. \$288,000.
- Stelman, C. D., **T. McKay** and S. McElroy. 2004. Determine the dispersal of house flies and other flies carrying *Cochlosoma anatis*, *E. coli* and coronavirus among and within turkey production farms. Arkansas Agricultural Experiment Station, Animal Health Fund. \$12,000.
- Stelman, C. D., A. L. Szalanski and **T. McKay**. 2003. Determine the epidemiological significance of the house fly and other filth flies in the movement of the pathogen complex that causes poult enteritis and mortality syndrome (PEMS) into and among turkey flocks. Arkansas Agricultural Experiment Station, Animal Health Fund. \$12,000.

#### PUBLICATIONS (#Students)

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##### *Peer-reviewed Journals*

- McKay, T.**, C. D. Steelman, C. B. Cottone, R. Adams, A. L. Szalanski. 2026. Molecular detection of *Campylobacter* sp. in Filth Flies Associated with Broiler Breeder Facilities in Oklahoma and Arkansas. *Southwestern Entomologist*. Accepted.
- #Ranabhat, S., C. Mutlu, G. V. Bingham, J. Abshire, **T. McKay**, K. Y. Zhu, and W. R. Morrison III. 2025. Spillage and food dust do not decrease efficacy of long-lasting insecticide-incorporated netting against stored product insects. *Journal of Stored Products Research*. 112, 102662.  
<https://doi.org/10.1016/j.jspr.2025.102662>
- #Ranabhat, S., J. Abshire, D. Castaldi, D. S. Scheff, G. V. Bingham, **T. McKay**, K. Y. Zhu, and W. R. Morrison III. 2025. Pairing residual contact insecticide use with long-lasting insecticide-incorporated netting to reduce dispersal and damage by stored product insects. *Journal of Applied Entomology*. 149:501-514.  
<https://doi.org/10.1111/jen.13396>
- #Sharrow, T. S., #B. G. King, A. Sweet, and **T. McKay**. 2024. New state record of *Phytomyza ditmani* Kulp (Diptera: Agromyzidae) in Arkansas. *Southeastern Naturalist*. 23(3):N50-N53.  
<https://doi.org/10.1656/058.023.0315>

- McKay, T.**, K. Luthra, L. A. Starkus, †E. A. Owusu, J. W. Siebenmorgen, and G. G. Atungulu. 2023. Assessing the effects of microwave treatments on rice quality and mortality of adult maize weevil, *Sitophilus zeamais*. *Journal of the American Society of Agricultural and Biological Engineers*. 66(5): 133-1040.
- †Hampton, R. M., G. Atungulu, V. Rolland, S. A. Wilson and **T. McKay**. 2022. Effects of infrared radiation on germination of long grain rice. *Applied Engineering in Agriculture*. 38: 129-133. <https://doi.org/10.13031/aea.14774>.
- †Yates, J. R., **T. McKay**, and S. J. Mullin. 2021. Natural history notes: *Anolis carolinensis* (myiasis). *Herpetological Review*. 52(3): 642-643.
- †Wilkins, R. V., J. F. Campbell, K. Y. Zhu, L. A. Starkus, **T. McKay**, and W. R. Morrison III. 2021. Long-lasting insecticide-incorporated netting and interception traps at pilot-scale warehouse and commercial facilities prevents infestation by stored product beetles. *Frontiers in Sustainable Food Systems*. <https://doi.org/10.3389/fsufs.2020.561820>.
- †Todorovic, S., and **T. McKay**. 2020. Potential mosquito (Diptera: Culicidae) vectors of *Dirofilaria immitis* from residential entryways in northeast Arkansas. *Veterinary Parasitology* 282. <https://doi.org/10.1016/j.vetpar.2020.109105>
- †Hendrick, G. C., M. C. Dolan, **T. McKay** and P. C. Sikkel. 2019. Host DNA integrity within blood meals of hematophagous larval gnathiid isopods (Crustacea, Isopoda, Gnathiidae). *Parasites & Vectors* 12:316. <https://doi.org/10.1186/s13071-019-3567-8>.
- Arthur, F. H., L. A. Starkus, and **T. McKay**. 2019 Degradation and residual efficacy of beta-cyfluthrin as a surface treatment for control of *Tribolium castaneum* Herbst: Effects of temperature and environment. *Journal of Stored Products Research* 84. <https://doi.org/10.1016/j.jspr.2019.101514>.
- Arthur, F., L. A. Starkus, A. R. Gerken, J. F. Campbell and **T. McKay**. 2019. Growth and development of *Tribolium castaneum* (Herbst) on rice flour and brown rice as affected by time and temperature. *Journal of Stored Products Research* 83: 73-77. <https://doi.org/10.1016/j.jspr.2019.04.005>.
- †Hampton, R. M., G. G. Atungulu, Z. Odek, V. Rolland, T. J. Siebenmorgen, S. A. Wilson, and **T. McKay**. 2019. Assessment of *Rhyzopertha dominica* (F.) progeny and feeding damage on rice dried with infrared radiation. *Journal of Stored Product Research* 81: 69-75. <https://doi.org/10.1016/j.jspr.2019.01.002>.
- McKay, T.**, M. P. †Bowombe-Toko, L. A. Starkus, F. H. Arthur, and J. F. Campbell. 2019. Monitoring of *Tribolium castaneum* (Coleoptera: Tenebrionidae) in rice mills using pheromone-baited traps. *Journal of Economic Entomology* 112: 1454-1462. <https://doi.org/10.1093/jee/toy422>.
- Arthur, F. H., B. A. †Hale, L. A. Starkus, A. R. Gerken, J. F. Campbell, and **T. McKay**. 2019. Development of *Tribolium castaneum* (Herbst) (Coleoptera: Tenebrionidae) on rice milling components and by-products: Effects of diet and temperature. *Journal of Stored Product Research* 80: 85-92. <https://doi.org/10.1016/j.jspr.2018.11.001>.
- McKay, T.**, A. L. †White, L. A. Starkus, F. H. Arthur, and J. F. Campbell. 2017. Seasonal patterns of stored-product insects at a rice mill. *Journal of Economic Entomology* 110: 1366-1376.

- Okeyo, A., G. Olatunde, G. Atungulu, S. Sadaka, and **T. McKay**. 2017. Infrared drying characteristics of long-grain hybrid, long-grain pureline, and medium-grain rice cultivars. *Cereal Chemistry* 94:251-261. <https://doi.org/10.1094/CCHEM-07-16-0181-R>.
- ‡Gaspar, J.P., C. R. Minter, **T. McKay** and S. Raghu. 2015. First records for *Pseudomops septentrionalis* (Blattodea: Ectobiidae) and *Acantholomidea porosa* (Heteroptera: Scutelleridae) in Arkansas. *Journal of the Kansas Entomological Society* 88: 124-127.
- Arthur, F., L. A. Starkus, and **T. McKay**. 2015. Effects of flour and milling debris on efficacy of beta-cyfluthrin for control of *Tribolium castaneum* (Herbst), the red flour beetle. *Journal of Economic Entomology* 108: 811-825. <https://doi.org/10.1093/jee/tov015>.
- Cottone, C.B., A. L. Szalanski, **T. McKay** and C.D. Steelman. 2014. Molecular detection of *Campylobacter* spp. and *E. coli* O157:H7 carried by filth flies (Diptera: Muscidae) associated with turkey production facilities. *Midsouth Entomologist* 7:1-7.
- ‡Chiavacci, S., J. C. Bednarz and **T. McKay**. 2014. The emergence densities of annual cicadas increase with sapling density and are greater near edges in a bottomland hardwood forest. *Environmental Entomology* 43: 859-867. <https://doi.org/10.1603/en13338>.
- Wang, Dongmei, Dwight. D. Bowman, Heidi Brown, Laura C. Harrington, Philip E. Kaufman, **Tanja McKay**, C. Thomas Nelson, Julia L. Sharp and Robert Lund. 2014. Factors influencing U.S. canine heartworm (*Dirofilaria immitis*) prevalence. *Parasites & Vectors* 7:264. <https://doi.org/10.1186/1756-3305-7-264>.
- McKay, T.**, K. Yanowitz, A. Ross and S. Vanderpool. 2014. Don't swat that fly! Using house flies in the inquiry classroom. *Science Scope* 37: 22-28. [http://dx.doi.org/10.2505/4/ss14\\_037\\_06\\_22](http://dx.doi.org/10.2505/4/ss14_037_06_22).
- McKay, T.**, T. Bianco, L. Rhodes and S. Barrnet. 2013. Prevalence of *Dirofilaria immitis* (Nematoda: Filarioidea) in Mosquitoes from Northeast Arkansas, USA. *Journal of Medical Entomology* 50: 871-878. <https://doi.org/10.1603/ME12197>.
- Brown, H., L. Harrington, P. E. Kaufman, **T. McKay**, D. D. Bowman, C. T. Nelson, D. Wang and R. Lund. 2012. Key factors influencing canine heartworm, *Dirofilaria immitis*, in the United States. *Parasites & Vectors* 5: 245. <https://doi.org/10.1186/1756-3305-5-245>.
- ‡Gaspar, J., **T. McKay** and M. Huss. 2012. First report of *Aedes japonicus* in natural and artificial habitats in northeast Arkansas. *Journal of the American Mosquito Control Association* 28: 38-42. <https://doi.org/10.2987/11-6196.1>.
- ‡Fiene, J. G., M. B. Connior, R. Androw, B. Baldwin and **T. McKay**. 2011. Surveys of Arkansas dung beetles (Coleoptera: Scarabaeidae and Geotrupidae): Phenologies, mass occurrences, state and distributional records. *American Midland Naturalist* 165: 319-337. <https://doi.org/10.1674/0003-0031-165.2.319>.
- Yanowitz, K., **T. McKay**, C. A. Ross, S. Vanderpool. 2011. CSI: Creating student (and teacher) investigators: Using popular culture in professional development. *Journal of Technology and Teacher Education*

18: 263-283. (15) (PDF) [CSI: Creating student \(and teacher\) investigators: Using popular culture in professional development. \(researchgate.net\)](#)

**McKay, T.** and T. Herman. 2008. Thermoregulation in three species of damselflies (Odonata: Lestidae), with notes on temporal distribution and microhabitat use. *Odonatologica* 37: 29-39.

‡Milanovich, J. R., S. E. Trauth and **T. McKay**. 2008. Diet of the western slimy salamander *Plethodon albagula* (Caudata: Plethodontidae), from two mountain ranges in Arkansas. *Southeastern Naturalist* 7: 323-330.

**McKay, T.** and A. B. Broce. 2008. Host size and oviposition site effects on the sex ratio of the pupal parasitoid *Muscidifurax zaraptor* (Hymenoptera: Pteromalidae). *Annals of the Entomological Society of America* 101: 650-655.

**McKay, T.**, C. D. Steelman, S. M. McElroy, and A. L. Szalanski. 2007. Sustained Mass Release of Pupal Parasitoids (Hymenoptera: Pteromalidae) for Control of *Hydrotaea aenescens* and *Musca domestica* (Diptera: Muscidae) in Broiler-Breeder Poultry Houses in Arkansas. *Journal of Agricultural and Urban Entomology* 24: 67-85.

Dry, F., D. C. Steinkraus, C. D. Steelman, R. W. McNew and **T. McKay**. 2007. Survey of parasitoids (Hymenoptera: Pteromalidae) of house fly (Diptera: Muscidae) pupae from broiler-breeder poultry houses in Northwest Arkansas. *Biocontrol Science and Technology* 17: 757-763.

‡McElroy, S. M., A. L. Szalanski, **T. McKay**, A. J. Bermudez, C. B. Owens, and C. D. Steelman. 2005. Molecular assay for the detection of *Cochlosoma anatis* in house flies and turkey specimens by polymerase chain reaction. *Veterinary Parasitology* 127: 165-168.

Szalanski, A. L., C. B. Owens, **T. McKay**, and C. D. Steelman. 2004. Detection of *Campylobacter* sp., and *Escherichia coli* O157:H7 from filth flies by polymerase chain reaction. *Medical and Veterinary Entomology* 18: 241-246.

**McKay, T.** and A. B. Broce. 2004. Discrimination of self-parasitized hosts by the pupal parasitoid *Muscidifurax zaraptor* (Hymenoptera: Pteromalidae). *Annals of the Entomological Society of America* 97: 592-599.

Szalanski, A. L., T. W. Palmer, **T. McKay**, and C. D. Steelman. 2004. Infectivity of *Steinernema* spp. (Nematoda: Steinernematidae) to adult litter beetles, *Alphitobius diaperinus* (Coleoptera: Tenebrionidae) in the laboratory. *Biocontrol, Science and Technology* 14: 81-85.

**McKay, T.** and A. B. Broce. 2003. Response of *Muscidifurax zaraptor* (Hymenoptera: Pteromalidae) to the olfactory stimuli from hosts and their habitat. *Journal of the Kansas Entomological Society* 76: 31-37.

**McKay, T.** and T. D. Galloway. 1999. Biology of *Phygadeuon fumator* Gravenh orst (Hymenoptera: Ichneumonidae), a pupal parasitoid of house and stable flies (Diptera: Muscidae) in Manitoba. *Proceedings of the Entomological Society of Manitoba* 55:17-27.

**McKay, T.** and T. D. Galloway. 1999. Survey and release of parasitoids (Hymenoptera) attacking house and stable flies (Diptera: Muscidae) in dairy operations. *The Canadian Entomologist* 131: 743-756.

#### *Book Chapters*

†Todorovic, S., **T. McKay**, and P. Kaufman. 2023. Vector control approaches for canine filariasis. In R. Kaminsky and T. G. Geary (Eds.) *Human and animal filariases* (565-588 pp.) Wiley-VCH.

**McKay, T.** Entomological Adventures in Arkansas Poultry Operations. *Adventures in the Wild: Tales from Biologists of the Natural State*. University of Arkansas Publishers. May 2008.

Contributing author of the pedagogical features in a 2008 textbook “Criminalistics: Forensic Science and Crime” by James E. Girard. Jones & Bartlett Publishers.

#### *Non-Peer-reviewed Publications*

Yang, Y., L. T. Wilson, J. Wang, F. H. Arthur, and **T. McKay**. 2023. Web-based Postharvest Grain Management. pp122-128. In, *Texas Rice Production Guidelines 2023*, Texas A&M AgriLife Research (Eds. L.T. Wilson, X. G. Zhou, S. O. PB, Samonte, B. Morace, M. O. Way). ([PDF](#)) [Texas Rice Production Guidelines 2023 \(researchgate.net\)](#)

**McKay T.**, Bowombe Toko, M., Hale, B., Hampton, R., and Starkus, L. 2014. Stored-product insects associated with on-farm storage sites. Arkansas. B. R. Wells Rice Research Studies. AAES Research Series. 127-131. <http://arkansasagnews.uark.edu/626.coverfront.pdf>

**McKay, T.**, M. Toko, B. Hale, R. Hampton, and L. Starkus. 2013. Stored-Product insects associated with on-farm storage in northeast, Arkansas. B. R. Wells Rice Research Studies. AAES Research Series. 163-169.

Solis, M. and **T. McKay**. 2010. Forensic entomologists use insects to discover clues about death. *The Jonesboro Sun*. 10 Jan.

Gaspar, J., **T. McKay** and M. Huss. 2009. Controlling mosquito larvae using fungi. *The Jonesboro Sun*. 22 Nov.

**McKay, T.** 2008. Infestations of bed bugs showing marked increase. *The Jonesboro Sun*. 30 Mar.

Fiene, J. and **T. McKay**. 2008. Dung beetles helpful to livestock producers. *The Jonesboro Sun*. 17 Feb.

**McKay, T.** 2007. A-State scientist part of team awarded USDA grant to study rice pests. *The Jonesboro Sun*. 19 Aug.

**McKay T.** 2007. Parasitic wasps may be helpful in controlling unwanted flies. *The Jonesboro Sun*. Sept.

**McKay T.** and A. Romero. 2005. Tiger beetles common during summer months. *The Jonesboro Sun*. Aug.

Romero, A. and **T. McKay**. 2006. Scorpions' bad rap dates to prehistoric times. *The Jonesboro Sun*. 3 Jan.

Romero, A. and **T. McKay** 2006. Ants said to use 'odometers'. *The Jonesboro Sun*. Jul.

Romero, A. and **T. McKay** 2006. Ants can jump farther, faster than others. *The Jonesboro Sun*. 24 Sept.

PRESENTATIONS (# Students; detailed since 2009)

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*Invited*

**McKay, T.** Let's Get Buggy. Midwest Grain Seminar, (Zoom presentation), Doniphan, NE & Live streamed online. 20, Nov. 2025.

**McKay, T.** Stored-Product Insect and Current Research, EcoLab Fumigation Recertification Training, Greenfield, AR, Northeast Arkansas Rice Research and Extension Center, 10 June, 2025.

Morrison, III W.R., #S. Ranabhat, L. Starkus, **T. McKay**, and K.Y. Zhu. Using insecticide netting as a novel IPM tactic to protect postharvest rice and other stored products from insects. Rice Technical Working Group Meeting, New Orleans, LA. February. 2025.

**McKay, T.** Infestation management, what can we do? *United States Agency for International Development. Supply Chain Optimization Workshop*. Kansas City, KS. 15 Sept. 2023.

**McKay, T.** Integrated pest management for stored grains. *Fortified Rice, Commodity Fumigation and Supply Chain Processes Improvement Workshop*, Houston, TX. 29 Sept. 2022. (Virtual presentation).

**McKay, T.** Impact of microwave drying on insect mortality. *Industry Alliance Meeting, University of Arkansas Rice Processing Program*. Fayetteville, AR. 24 May 2022.

**McKay, T.** Stored-product insects, mosquitoes and heartworms: Unraveling complexities. *Kansas State, Department of Entomology Distinguished Alumnus Seminar*. Manhattan, KS. 15 October 2019.

**McKay, T.** Potential mosquito vectors of *Dirofilaria immitis* from residential entryways. *Triennial Symposium, American Heartworm Society*. New Orleans, LA. September 2019.

**McKay, T.** and S. Jones. Microclimates and the mosquito as the required vector for transmission of *Dirofilaria immitis*. *16<sup>th</sup> Triennial Symposium, American Heartworm Society*. New Orleans, LA. September 2019.

**McKay, T.** Integrated pest management in rice mills in the U.S. *University of Arkansas, Department of Entomology, Seminar Series*. Fayetteville, AR. April 2019.

**McKay, T.** Integrated Pest Management in Rice Milling in the U.S. *University of Arkansas, Fayetteville, AR*. April 2019.

**McKay, T.,** R. Hampton, G. Atungulu, Z. Odek, T. Siebenmorgen, V. Rolland and S. Wilson. Post-treatment effects of infrared radiation on lesser grain borer (*Rhyzopertha dominica*) development. *Joint Meeting of the Entomological Society of America and the Entomological Society of Canada*. Vancouver, Canada. Nov. 2018.

**McKay, T.** Integrated Pest Management in Rice Mills. Department of Agriculture and Fisheries and Forestry

& University of Queensland, Brisbane, Australia (Sabbatical). Oct. 2017.

- McKay, T.** Vectors of Heartworm and the Importance of Integrated Pest Management. *2017 SCAV Southeast Veterinary Conference*, Hilton Head, SC (Sponsored by CEVA Animal Health). 12 June 2017.
- McKay, T.** Vectors of Heartworm and the Importance of Integrated Pest Management. *2017 Virginia Veterinary Conference*, Roanoke, VA (Sponsored by CEVA Animal Health). Feb. 2017.
- McKay, T.** Seasonal and temporal distribution of stored-product insects at a rice mill in northeast Arkansas. *The 61<sup>th</sup> Annual Meeting of the Entomological Society of America*. Austin, TX, Nov. 2013.
- McKay, T.** Potential Mosquito Vectors of Heartworm, *Dirofilaria immitis*, in Arkansas. *North American Veterinary Conference*. Orlando, FL. 22 Jan. 2013.
- McKay, T.** An integrated flea control program in an Arkansas horse facility: A case study. *North American Veterinary Conference*. Orlando, FL. 22 Jan. 2013.
- McKay, T.** Teaching inquiry-based entomological lessons to high school teachers and students. *The 60<sup>th</sup> Annual Meeting of the Entomological Society of America*. Knoxville, TN. 14 Nov. 2012.
- McKay, T.** An integrated flea control program in an Arkansas horse facility: A case study. Novartis Animal Health – Recharge Retreat for Veterinarians. Charlotte NC, Pittsboro, NC, Irving VA. May 2012.
- McKay, T.** Arkansas dung beetle study – The biodiversity of dung beetles in Arkansas. Dung Beetle Field Day, University of Missouri, Hugo Wurdack Farm, Cook Station, MO. 18 Aug. 2010.
- McKay, T.** Management of fly larvae in livestock systems using parasitic wasps and predators. Dung Beetle Field Day, University of Missouri, Hugo Wurdack Farm, Cook Station, MO. 18 Aug. 2010.
- McKay, T.** Potential Vectors of Dog Heartworm in Jonesboro, AR. Sponsored by Novartis Animal Health. Spring 2010 Tour of the Mississippi Delta giving this talk seven times to veterinarians. May 4 Jackson MS, May 17 Greenville MS, May 18 Jackson MS, May 19 Alexandria MS, & Lafayette LA, May 20 Louisiana State University Veterinary School Baton Rouge LA, June 24 Sikeston, MO.
- McKay, T.** A survey of potential mosquito vectors of dog heartworm, *Dirofilaria immitis*, in Jonesboro, Arkansas. Advisory Board Meeting, Novartis Animal Health, Charlotte NC. 18 Feb. 2010.
- McKay, T.** Livestock entomology: The past, present and future. The 56<sup>th</sup> Annual Meeting of the Entomological Society of America. Reno, NV. 18 Nov. 2008.
- McKay, T.** Highlights of veterinary entomology. The 55<sup>th</sup> Annual Meeting of the Entomological Society of America. San Diego, CA. 10 Dec. 2007.
- Loftin, K., **T. McKay**, J. Pennington, D. Steelman, A. Szalanski, K. VanDevender, W. Watson, and S. Willard. Using parasitic wasps as an IPM approach to manage filth flies in southern dairies. The 54<sup>th</sup> Annual Meeting of the Entomological Society of America. Indianapolis, IN. 11 Dec. 2006.

Broce, A. and **T. McKay**. Oviposition behavior of *Muscidifurax zaraptor*, a pteromalid parasitoid. The 54<sup>th</sup> Annual Meeting of the Entomological Society of America. Indianapolis, IN. 11 Dec. 2006.

*International, National, and Regional Presentations and Published Abstracts*

*Papers*

Abarca-Duran, J., M. Kessler-Mathieu, K. Y. Zhu, G. V. Bingham, L. Starkus, T. McKay, E. D. Scully, and W. R. Morrison II. 2026. Inside the grain bin: Molecular detection of phosphine resistance from insects at food facilities on the Great Plains. *North Central Branch Meeting, American Society of Entomology*. Des Moines, IA, March.

‡Boddepalli, A., K. Zhu, **T. McKay**, L. Starkus, and D. Scheff. 2026. Influence of surface type and temperature on the initial and residual efficacy of contact insecticides against the lesser grain borer, *Rhyzopertha dominica* (Fabricius) adults. *North Central Branch Meeting, American Society of Entomology*. Des Moines, IA, March.

‡Boddepalli, A., K. Zhu, **T. McKay**, L. Starkus, and D. Scheff. 2025. Residual efficacy of contact insecticides on wood and metal surfaces against stored product insects held in shipping containers in Arkansas. *Entomological Society of America Annual Meeting*. Phoenix, AZ, November.

Das, A., M. Petingco, M. Wei., D. Brabec, M. Casada, E. Scully, D. Scheff, and **T. McKay**. 2025. Computational Fluid Dynamics Analysis of Phosphine Gas Distribution for Effective Fumigation in Grain-Filled Barrel. *ASABE Annual International Meeting*, Toronto, Ontario, Canada, July.

**McKay, T.** 2024. Insights into my stored product entomology journey, with lessons learned. *Entomological Society of America Annual Meeting*. Phoenix, AZ, November.

**McKay, T.**, D. Scheff, G. Kim, M. Wei, K. Y. Zhu, D. Brabec, J. Campbell, M. Casada, W. Morrison III, E. Scully 2024. Improving the efficacy of methyl bromide alternatives in shipping containers. *Methyl Bromide Alternatives Outreach: Fumigation and Alternatives for Production, Storage and Trade Conference*. Orlando, FL, October.

‡Lett, R. and **T. McKay**. 2024. A comparison of dung beetle diversity and abundance from two studies in Northeast Arkansas 15 years apart. *Tennessee Entomological Society Annual Meeting*. Memphis, TN. October. 2<sup>nd</sup> place, Graduate Student Competition.

‡Hirata, M., R. Lett, and **T. McKay**. 2024. Jonesboro Citizen science mosquito project: empowering communities in mosquito monitoring and control. *Tennessee Entomological Society Annual Meeting*. Memphis, TN. October. 2<sup>nd</sup> place, Undergraduate Student Competition.

**McKay, T.**, D. Scheff, G. Kim, M. Wei, K. Y. Zhu, D. Brabec... E. Scully. 2023. Improving the efficacy of methyl bromide alternatives in shipping containers. *Methyl Bromide Alternatives Outreach*. San Deigo, CA, November. (Presenter: D. Scheff). November.

‡Ranabhat, S., **T. McKay**, L. Starkus, G. Bingham, and K. Y. Zhu. 2023. Understanding the behavioral ecology of stored product insects in response to integrated pest management tactics. *Entomological Society of America Annual Meeting*. National Harbor, MD, November.

- ‡Lett, R., and **T. McKay**. 2023. Past and present abundance of three dung beetle species in a cattle pasture in Northeast Arkansas fifteen years apart. *Livestock Insect Worker's Conference*. Fredericksburg, TX. June.
- ‡Lett, R. and **T. McKay**. 2023. Does habitat matter? Dung beetle communities in forests and cattle pastures in Northeast Arkansas. *Create@state. A Symposium of Research, Scholarship & Creativity*. Arkansas State University, Jonesboro, AR, 18 April 2023.
- ‡Lett, R. and **T. McKay**. 2022. Dung beetle biodiversity in cattle pastures and forested habitats in northeast Arkansas. *Joint Meeting of the Entomological Society of America, Entomological Society of Canada, and the British Columbia Entomological Society*. Vancouver, British Columbia, Canada, 14 November 2022.
- ‡Medaries, A. and **T. McKay**. Introducing the A-State entomology collection into the 21st century. *Undergraduate Fellowship for Arkansas Biosciences Institute*. A-State, Jonesboro, AR. Jan. 2019.
- Arthur, F., **T. McKay** and L. Starkus. The empty grain bin as a microclimate: Temperatures and insecticides. *Joint meeting of the Entomological Society of America and The Entomological Society of Canada*. Vancouver, Canada. Nov. 2018.
- ‡ Hampton, Rachel and **T. McKay**. T. The effects of infrared radiation on lesser grain borer (*Rhyzopertha dominica* F.) development and grain damage. *Creat@astate, A Symposium of Research, Scholarship and Creativity*, Arkansas State University, Jonesboro, AR. Apr. 2018.
- ‡ Hampton, Rachel and **T. McKay**. The effects of infrared radiation on rice germination. *Creat@astate, A Symposium of Research, Scholarship and Creativity*, Arkansas State University, Jonesboro, AR. April 2017.
- McKay, T.**, L. Espino, F. Arthur, J. Campbell, L. T. Wilson, Y. Yang, and J. Beuzelin. Survey of pest management practices for rice mills in the U.S. *XXV International Congress of Entomology*, Orlando, FL. Sept. 27, 2016.
- ‡Reithemeyer, K., L. Starkus, and **T. McKay**. Effects of high and low concentrations of beta cyfluthrin on the red flour beetle, *Tribolium castaneum*, on concrete exposed at indoor and outdoor locations. *Bridge Undergraduate Student Symposium*, Arkansas State University, Jonesboro, AR. Aug. 4, 2016.
- McKay, T.**, L. Starkus, J. Campbell, and F. Arthur. Stored-product insects associated with rice spillage at rice mills. *36<sup>th</sup> Rice Technical Working Group Meeting*, Galveston, TX. Mar. 4, 2016.
- Yang, Y., L. Wilson, F. Arthur, **T. McKay**, J. Campbell, B. Adam, J. Beuzelin, and J. Wang. An integrated web-based grain pest management system for on-farm storage and rice mills. *36<sup>th</sup> Rice Technical Working Group Meeting*, Galveston, TX. Mar. 4, 2016.
- McKay, T. Integrated pest management in rice mills: Monitoring red flour beetles. *The 63<sup>th</sup> Annual Meeting of the Entomological Society of America*, Minneapolis, MN. Nov. 17, 2015.
- Hampton, R., B. Hale, L. Starkus, **T. McKay**, F. Arthur, and J. Campbell. Red flour beetle (*Tribolium castaneum*) development on rice fractions at varying temperatures. *Joint Meeting of the Kansas Entomological Society and Arkansas Entomological Society*, Fayetteville, AR. Apr. 3-4, 2015.

- McKay, T.** Efficacy of Cyfluthrin for control of red flour beetles (*Tribolium castaneum*) in rice mills. *The 62<sup>th</sup> Annual Meeting of the Entomological Society of America*. Portland, OR. Nov. 18, 2014.
- ‡Toko, M. B., L. Starkus, B. Hale, **T. McKay**. Spatio-temporal distribution of red flour beetle, *Tribolium castaneum* (Coleoptera: Tenebrionidae), in rice mills in northeast Arkansas. *The 62<sup>th</sup> Annual Meeting of the Entomological Society of America*. Portland, OR. Nov. 17, 2014.
- Ross, A., K. Yanowitz, **T. McKay**, G. Huckaby, M. Dunham, W. Jones, M. Guinn, J. Smith and A. Duren. Family science night in a secondary school. *Arkansas Curriculum Conference*, Little Rock, AR. Nov. 7, 2014.
- ‡ Bowombe Toko, Martine and **T. McKay**. Effects of environmental factors and abundance and distribution of *Tribolium castaneum* in rice mills in northeast Arkansas. *Creat@astate, A Symposium of Research, Scholarship and Creativity*, Arkansas State University, Jonesboro, AR. Apr. 10, 2014.
- ‡ Hampton, R. and **T. McKay**. Effect of temperature and rice fraction on red flour beetle (*Tribolium castaneum*) development. *Creat@astate, A Symposium of Research, Scholarship and Creativity*, Arkansas State University, Jonesboro, AR. Apr. 10, 2014.
- McKay, T.** Integrated pest management in rice mills and on-farm storage sites. Food Protection Alliance Fumigation Boot Camp, Jonesboro, AR. Apr. 7, 2014.
- Ross, C. R., K. Yanowitz, **T. McKay** and S. Ledbetter. Do's and Don'ts for Having a Successful Family Science Night in Secondary Schools. *National Conference on Science Education, National Science Teachers Association*, Boston, MA. Apr. 5, 2014.
- Ross, C. R., K. Yanowitz, **T. McKay** and D. K. Teems. Forensic Entomology: A Unique Way to Study Insects. *National Conference on Science Education, National Science Teachers Association*, Boston, MA. April 3, 2014.
- McKay, T.**, B. Adam, F. H. Arthur, J. Beuzelin, J.F., Campbell, T.E. Regan, L. Starkus, L. T. Wilson, and Y. Yang. Integrated pest management programs in rice mills. *The 35<sup>th</sup> Meeting of the Rice Technical Working Group*, New Orleans, LA. Feb. 20, 2014.
- Campbell, J. F., K. A. Buckman, L. Starkus and **T. McKay**. Stored product insect exploitation of rice spillage accumulations. *The 35<sup>th</sup> Meeting of the Rice Technical Working Group*, New Orleans, LA. Feb. 20, 2014.
- Arthur, F. H., **T. McKay**, J. F. Campbell and L. Starkus. Red flour beetle development on rice fractions. *The 35<sup>th</sup> Meeting of the Rice Technical Working Group*, New Orleans, LA. Feb. 20, 2014.
- Starkus, L., **T. McKay**, F. H. Arthur, and J. F. Campbell. Efficacy of cyfluthrin for control of red flour beetles (*Tribolium castaneum*) in rice mills. *The 35<sup>th</sup> Meeting of the Rice Technical Working Group*, New Orleans, LA. Feb. 20, 2014.
- Yanowitz, K., **T. McKay** and A. Ross. Using CSI methods to incorporate STEM in the classroom. *Kappa Delta Pi 49<sup>th</sup> Biennial Convocation*, Callas, TX. Oct. 2013.
- Yanowitz, K., A. Ross, **T. McKay**, D. Rail, A. Duran, G. Huckaby, and H. Widby. Be a crime stopper. *Arkansas Curriculum Conference*, Little Rock, AR. Nov. 1, 2013.

- ‡Hampton R., L. Starkus, F. Arthur, J. Campbell, and **T. McKay**. Effect of temperature and rice fraction on Red Flour Beetle (*Tribolium castaneum*) development. *The 22<sup>nd</sup> Annual Meeting of the Arkansas Entomological Society*, Southern Arkansas University, Magnolia, AR (1<sup>st</sup> place undergraduate student oral presentation competition). Oct. 5, 2013.
- ‡Bowombe, T. M., L. Starkus, R. Hampton, and **T. McKay**. Effects of environmental factors on the abundance and distribution of *Tribolium castaneum* (Coleoptera: Tenebrionidae) at a rice mill in northeast Arkansas. *The 22<sup>nd</sup> Annual Meeting of the Arkansas Entomological Society*, Southern Arkansas University, Magnolia, AR (2<sup>nd</sup> place graduate student oral presentation competition). Oct. 5, 2013.
- Ross, C. A., K. Yanowitz and **T. McKay**. Crime in the Classroom: A Fun Way to Integrate STEM Content. *NSTA 2013 STEM Forum & Expo*, St. Louis, MO. May 16, 2013.
- McKay, T.** Integrated Pest Management in Rice Mills. *RiziCulture Series*, Arkansas State University, Jonesboro, AR. Apr. 10, 2013.
- ‡Hampton, R., J. Gaspar, **T. McKay**, and M. Huss. Behavioral and developmental effects of Trichomycete Fungi (*Smittium culisis*) on Culicidae (*Culex pipiens*) larvae. The 88<sup>th</sup> Annual Meeting of the Kansas (Central States) Entomological Society, Arkansas State University, Jonesboro, AR. Apr. 7, 2012.
- ‡Gaspar, J., T. McKay and M. Huss. Trichomycete fungi associated with mosquito larvae (Diptera: Culicidae) in northeast Arkansas. The Joint Meeting of the Southeastern and Southwestern Branches of the Entomological Society of America. Little Rock, AR. Mar. 5, 2012.
- Yanowitz, K., **T. McKay** and C. Ross. Classroom student investigators. *NSF ITEST Forum (Innovative Technology Experiences for Students and Teachers)*, Washington, DC. Feb. 29, 2012.
- ‡Gaspar, J., **T. McKay** and M. Huss. Trichomycete fungi associated with mosquito larvae in northeastern Arkansas. *88th Kansas (Central States) Entomological Society Annual Meeting*, Jonesboro, AR. 7 April 2012.
- ‡Hampton, R., ‡J. Gaspar, **T. McKay** and M. Huss. Behavioral and developmental effects of trichomycete fungi (*Smittium culisis*) on Culicidae (*Culex pipiens*) larvae. *88th Kansas (Central States) Entomological Society Annual Meeting*, Jonesboro, AR (2<sup>nd</sup> place graduate and undergraduate student oral presentation competition). 7 April 2012.
- McKay, T.** Integrated Insect Pest Management in Rice Mills. Annual International Research Conference on Methyl Bromide Alternatives and Emissions Reductions. Orlando, FL. 7 November 2012.
- Yanowitz, K. R. Ross, **T. McKay**, R. O'Neal, and S. Barefield. Can you solve it? *Arkansas Curriculum Conference*, Little Rock, AR. 8 Nov. 2012.
- ‡ White, A. L., **T. McKay**, J. F. Campbell, and F. Arthur. Population dynamics of stored-product insects at a rice mill in northeast Arkansas. *The 59<sup>th</sup> Annual Meeting of the Entomological Society of America*. Reno, NV. 15 Nov. 2011.

- Vanderpool, S., K. Yanowitz, **T. McKay**, and A. Ross. Using popular culture to teach science concepts. *Association for Middle Level Educators Annual Conference*, Louisville, KY. 12 Nov. 2011.
- McKay, T.**, F. Arthur and J. Campbell. Insect pest management in rice mills. *Methyl Bromide Alternatives and Emissions Conference*, San Diego, CA. Nov. 2011.
- McKay, T.** Potential vectors of dog heartworm (*Dirofilaria immitis*) in northeast Arkansas. *Joint Meeting for the Livestock Insect Workers Conference, International Symposium on Ectoparasites of Pets, and the American Association of Veterinary Parasitologists*, St. Louis, MO. Jul. 2011.
- Yanowitz, K., A. Ross, **T. McKay** and S. Vanderpool. Technology, engineering, and mathematical Career Aspirations after attending a science enrichment program. *American Educational Research Association*, New Orleans, LA. 9 Apr. 2011.
- McKay, T.** and T. Bianco. Potential vectors of dog heartworm (*Dirofilaria immitis*) in northeast Arkansas. *The 58<sup>th</sup> Annual Meeting of the Entomological Society of America*. San Diego, CA. 14 Dec. 2010.
- ‡Gaspar, J., **T. McKay** and M. Huss. Trichomycete fungi associated with mosquito larvae in northeastern Arkansas. *The 58<sup>th</sup> Annual Meeting of the Entomological Society of America*. San Diego, CA. 13 Dec. 2010.
- ‡Gaspar, J., **T. McKay** and M. Huss. Trichomycete fungi associated with mosquito larvae in Northeastern Arkansas. *Arkansas Entomological Society Annual Meeting*, Fayetteville, AR. 8 Oct. 2010.
- ‡Gaspar, J., **T. McKay** and M. Huss. Trichomycete fungi associated with mosquito larvae in Northeastern Arkansas. Fall Conference, *Arkansas Chapter of the Wildlife Society*, Arkansas State University, Jonesboro, AR. 30 Sept. 2010.
- Hinkle, N. C. and **T. McKay**. The future of Cooperative Extension and its relationship with the Agricultural Experiment Station scientist as related to control of arthropods affecting livestock. *54<sup>th</sup> Livestock Insect Workers Conference*, Knoxville, TN. 27-30 June 2010.
- McKay, T.**, T. Bianco, S. Barnett. Potential vectors of dog heartworm (*Dirofilaria* spp.) in Jonesboro. *13<sup>th</sup> Triennial State of the Heartworm Symposium*, Memphis, TN. 16-18 April 2010.
- McKay, T.**, C.A. Ross, S. Vanderpool, and K. Yanowitz. House flies in the science classroom: Perspectives from a summer camp. *84<sup>th</sup> Annual Meeting of the Southeastern Branch Meeting*, Entomological Society of America, Atlanta, GA. 7-10 Mar. 2010.
- Ross, C. A., K. L. Yanowitz, **T. McKay**, and S. S. Vanderpool. Crime pays big dividends in the science classroom. *National Science Teachers Association Annual Conference*, Philadelphia, PA. 18-21 Mar. 2010.
- McKay, T.** Past, present and future of veterinary and medical entomology-results from two surveys conducted in spring 2009. *The 57<sup>th</sup> Annual Meeting of the Entomological Society of America*. Indianapolis, IN. 13-16 Dec. 2009.

- ‡Fiene, J. and **McKay, T.** Aggregation mechanisms influencing spatial distributions of dung beetles (Coleoptera: Scarabaeidae: Scarabaeinae and Aphodiinae). *The 57<sup>th</sup> Annual Meeting of the Entomological Society of America*. Indianapolis, IN. 13-16 Dec. 2009.
- Yanowitz, K. L., **T. McKay**, S. S. Vanderpool and C. A. Ross. Possible selves and career goals: Multiple ways of exploring the question “What do you want to be when you grow up?” *Annual American Evaluation Association Conference*, Orlando FL. 11-14 Nov. 2009.
- Ross, C. A., K. L. Yanowitz, **T. McKay**, L. Shott and R. Harbor. Creating crime scenarios to teach science content. *Arkansas Curriculum Conference*, Little Rock, AR. 5-6 Nov. 2009.
- Yanowitz, K. L., **T. McKay**, C. A. Ross, and S. S. Vanderpool. What do you want to be when you grow up? *American Evaluation Association Conference*, Orlando, FL. 13 Nov. 2009.
- McKay, T.** and K. L. Yanowitz. Past, present and future of veterinary and medical entomology: Results from surveys conducted in Spring 2009, Part 2. *Joint Meeting of the Annual Meeting of the Southeastern Branch, Entomological Society of America and Annual Meeting of the American Phytopathological Society- Caribbean Division*, San Juan Puerto Rico, USA. 22 Mar. 2009.

#### Posters

- ‡Abarca, J., M. Kessler-Mathieu, J. L. Abshire, K. Y. Zhu, C. Mutlu, G. V. Bingham, L. Starkus, **T. McKay**, E. D. Scully, and W. Morrison. Early detection of phosphine resistance in populations of mixed ratios of resistant to susceptible conspecifics in red flour, *Tribolium castaneum* (Coleoptera: Tenerbrionidae) *Entomological Society of America Annual Meeting*, Portland, OR, Nov. 2025.
- ‡Boddepalli, A., K. Y. Zhu, T. McKay, and D. Scheff. 2025. Efficacy of Contact Insecticides on Stored-Product Insects on Wood, Metal, and Concrete Surfaces at Different Temperatures. The 2nd International Electronic Conference on Entomology. May. 2025.
- ‡Uddin, Md. N., **T. McKay**, L. Starkus, S. Ranabhat, K. Y. Zhu and W. Morrison. 2023. The efficacy of insecticide-incorporated netting for preventing maize weevils (Coleoptera: Curculionidae) from infesting brown rice. *Entomological Society of America Annual Meeting*, National Harbor, MD, Nov. 5-8. [First place Student Competition.](#)
- ‡Sharrow, T., V. Rolland, T. Boves, **T. McKay**, and A. Sweet. 2023. Assessing the effect of American Kestrels on small mammal, avian, and insect crop-pests of the Lower Mississippi Alluvial Valley. *American Ornithological Meeting & Society of Canadian Ornithologists–Société des ornithologistes du Canada (SCO–SOC)* . London, Ontario, Canada, August 8-12.
- ‡Ranabhat, S., K. Mongeau, **T. McKay**, L. Starkus, K. Y. Zhu, and William R. Morrison. 2023. Food dust does not decrease the efficacy of the insecticide netting against stored product insects. *K-State Graduate Research, Arts, and Discovery (GRAD) Forum*, Kansas State University, Manhattan, KS, 8-9 March 2023.
- ‡Uddin, Md. N., L. Starkus and **T. McKay**. 2023. The efficacy of insecticide-incorporated netting for preventing maize weevils (Coleoptera: Curculionidae) infestation. *Create@state. A Symposium of Research, Scholarship & Creativity*. Arkansas State University, Jonesboro, AR, 18 April 2023.

- ‡Lett, R. and **T. McKay**. 2023. Does habitat matter? Dung beetle communities in forests and cattle pastures in Northeast Arkansas. *Southeastern Branch Meeting of the Entomological Society of America*, Little Rock, AR, USA, 14 March.
- ‡Covington, A. M. and **T. McKay**. 2022. The relationship between bess beetles (Family Passalidae) and their Companions. *Create@state. A Symposium of Research, Scholarship & Creativity*. Arkansas State University, Jonesboro, AR, 19 April 2022.
- Yanowitz, K., A. Pearce, J. Artim, and **T. McKay**. 2022. Just Add Science: Impact of informal science experiences on participants' attitudes. *Association for Psychological Sciences Annual Convention*. Chicago, IL, May.
- ‡Wilkins, R. V., K. Y. Zhu, **T. McKay**, L. Starkus, J. F. Campbell, W. R. Morrison III. 2020. Traps with long-lasting insecticide-incorporated netting as a novel perimeter-based management tactic to intercept stored product insects around food facilities. *Entomological Society of America Annual Meeting*, Nov. 2020.
- ‡ Hampton, R., G. Atungulu, Z. Odek, T. Siebenmorgen, S. Wilson, and **T. McKay**. 2018. Post-treatment effects of infrared radiation on rough rice germination and development of the lesser grain borer (*Rhyzopertha dominica*). *Industry Alliance Meeting*, University of Arkansas, Fayetteville, AR. 21-22 May, 2018.
- Starkus, L. P., **T. McKay**, F. Arthur, and J. Campbell. Effects of light and temperature on the efficacy of beta-cyfluthrin for control of *Tribolium castaneum* (Coleoptera: Tenebrionidae) in a rice mill. *2017 Southeastern Branch Meeting*. Memphis, TN. 14 Mar. 2017.
- ‡ Hampton, R., G. Atungulu, and **T. McKay**. Infrared radiation for the purpose of controlling stored product insects and its effect on rice germination. *2017 Southeastern Branch Meeting*. Memphis, TN. 13 Mar. 2017.
- ‡Todorovic, S. and **T. McKay**. Potential vectors of heartworm (*Dirofilaria immitis*) in Arkansas and development of models to predict seasonal transmission for high risk states in the U.S. *International Congress of Entomology*. Orlando, FL. (1<sup>st</sup> place student competition) 27 Sept. 2016.
- Starkus, L., M. Bowombe Toko, R. Hampton, F. Arthur, J. Campbell, and **T. McKay**. Monitoring of red flour beetles at rice mills. *Joint Meeting of the Kansas Entomological Society and Arkansas Entomological Society*. Fayetteville, AR. Apr. 3-4, 2015.
- ‡ Hampton, R., L. Starkus, **T. McKay**, F. Arthur and J. Campbell. The effects of temperature and rice fractions on red flour beetle (*Tribolium castaneum*) development. *In: Abstracts, the 62<sup>th</sup> Annual Meeting of the Entomological Society of America*. Portland, OR. 17 Nov. 2014.
- ‡Holland, T. **T. McKay** and L. Starkus. Efficacy of beta-cyfluthrin for control of laboratory-reared and wild-collected cultures of red flour beetle (Coleoptera: Tenebrionidae) on treated concrete. *Arkansas ASSET Initiative Annual Meeting*, Little Rock, AR. 4 September, 2014.
- ‡ Hale, B. and **T. McKay**. Biology of the red flour beetle, *Tribolium castaneum* (Herbst), development on various rice fractions. *The 61st Annual Meeting of the Entomological Society of America*. Austin, TX. 12 Nov. 2013.

- ‡ Melissa Bailey, L. Starkus, ‡ R. Hampton, and **T. McKay**. Methods of assessing Red Flour Beetle, *Tribolium castaneum*, development and survival in rice fractions. *The 89<sup>th</sup> Annual Meeting of the Kansas (Central States) Entomological Society*. Pittsburg, KS. 13 Apr. 2013.
- ‡ Aaron Cato, L. Starkus, ‡ R. Hampton, and **T. McKay**. A comparison of arthropods taking refuge under dome traps in four rice mills. *The 89<sup>th</sup> Annual Meeting of the Kansas (Central States) Entomological Society*. Pittsburg, KS. 13 Apr. 2013.
- ‡ Gaspar, J. **T. McKay**, and M. Huss. Trichomycete fungi associated with mosquito larvae in northeastern Arkansas. *The 59<sup>th</sup> Annual Meeting of the Entomological Society of America*. Reno, NV (President's Award, first place Graduate Student Poster Display Competition, MUVE-2). 14 Nov. 2011.
- ‡ Quatermass, K. E., ‡ T. A. Bianco and **T. McKay**. Do heartworm positive dogs increase infection in mosquitoes? *Research Internships in Science of the Environment Poster Presentations*, Arkansas State University, Jonesboro, AR. 6 Aug. 2010.
- Yanowitz, K. L., **T. McKay**, C. A. Ross, and S. S. Vanderpool. The impact of participating in a STEM camp on career goals. *Annual Conference of the Association for Psychological Science*, Boston, MA. 29 May 2010.
- ‡ White, A. L., **T. McKay**, F. H. Arthur and J. F. Campbell. Population dynamics of stored-product insects at a rice mill in northeast Arkansas. *The 57<sup>th</sup> Annual Meeting of the Entomological Society of America*. Indianapolis, IN. 13-16 Dec. 2009.

## MENTORING ACTIVITIES

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### *Primary Mentor, Master's Thesis Research*

Rebecca Lett: "Dung beetle diversity in cattle production areas and forested habitats in northeast Arkansas." Completed and expected to graduate in December 2024.

Md Naim Uddin: "Assessing the methodologies to protect stored rice from insect infestations." Completed and graduated, August 2024.

Rachel Hampton: "Post-treatment effects of infrared radiation on rough rice germination and lesser grain borers (*Rhyzopertha dominica* (F))." Completed and graduated, August 2018.

Sofija Todorovic: "Potential vectors of dog heartworm, *Dirofilaria immitis*, in Arkansas and seasonal transmission in the United States." Completed and graduated, May 2018.

Brook Hale: "Red flour beetle, *Tribolium castaneum*, development on rice fractions and oviposition preference." Completed and graduated, August 2016.

Martine Bowombe Toko: "Spatio-temporal distribution of stored-product insects with emphasis on red flour beetles (Coleoptera: Tenebrionidae) in rice mills and on-farm storage facilities." Completed and graduated, August 2015.

Bradley Rogers (M.A., Non-Thesis, Biological Sciences), Completed and graduated 2014.

Jason Gaspar: "Observational and experimental studies of tricomycete fungi associated with mosquito larvae." Completed and graduated, December 2013.

Justin Fiene: "Species composition, seasonal activity, and aggregations of dung beetles on cattle pastures in Arkansas." Completed and graduated, August 2009.

*Doctoral Student Dissertation – Became Major Advisor (Major Advisor Left Institution)*

David Hayes: "Genetic diversity and distribution of selected freshwater mollusks (Gastropod and Bivalvia) from west of the Mississippi River with an emphasis on Arkansas taxa." Completed and graduated, August 2010.

Andrew Peck: "Evaluation of freshwater mussel conservation strategies at multiple scales: Macro-molecules, behavior, habitat, and policy" Completed and graduated, May 2010.

*Master's Thesis Research – Became Major Advisor (Major Advisor Left Institution)*

Allison Asher: "Spatial patterns, population genetics, and multiple paternity of the freshwater mussel *Villosa iris*, (Lea 1829)." Completed and graduated, May 2009.

Kentaro Inoue: "Molecular phylogenetic, morphometric, and life history analyses of the special concern freshwater mussels: *Obobvaria jacksoniana* (Frierson, 1912) and *Villosa arkansasensis* (Lea, 1862)." Completed and graduated, May 2009.

*Undergraduates Who Have Worked in My Lab Since 2008 (Not Including Special Topic Courses)*

Aiyana Dawson, Sarah Watson 2022, dung beetle research

Ann Marie Covington, 2021-2022, Bess beetle biology

Johnathan Wagner, Summer 2015

Aaron Cato, Summer 2015, Stored product insects

Toria Holland, Summer 2014, National Science Foundation RISE student

Nathan Pinheiro Silva, 2014, Exchange Student, Brazil

Melissa Bailey, Summer 2013, Experiential Learning Student

Justin Stewart, 2010

Kori Quatermass, 2009, Summer research, heartworm and mosquitoes

Genevieve Howell, 2008, Forensic entomology

*University of Arkansas, Fayetteville, AR, USA*

Committee Member, Entomology PhD, Narinderpal Singh, *Advisor:* Dr. Donn Johnson; Food Science MS, Anne Okeyo, *Advisor:* Dr. Griffiths Atungulu

*University of Queensland, Brisbane, Australia*

2018, External Reviewer, PhD thesis, Graduate School

*Student Advising*

Advise from 9-15 undergraduate students each semester regarding coursework/career goals

## INSTRUCTION

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### *Undergraduate Courses Taught at A-State Since 2004*

- *General Entomology & lab* (each Fall)
- *Economic Entomology & lab* (each Spring)
- *Invertebrate Zoology & lab* (Spring 2006, 2008, 2010)
- *Biological Sciences* (for non-majors) (Fall 2006, 2007)

### *Undergraduate and Graduate Courses Cross-listed and Taught at A-State Since 2004*

- *Aquatic Entomology & Lab* (every 2 years up until 2015)
- *Forensic Entomology* (every 2 years; no longer taught as of Fall 2016)

### *Graduate Courses Taught at A-State Since 2004*

- *Medical and Veterinary Entomology & Lab* (Spring – every 2 years until 2010; Fall 2012; 2021)
- *Ethics and Responsible Conduct* (each Fall 2013-2015)
- *Insect Taxonomy & Lab* (Fall – every 2 years, last taught 2021)
- *Seminar (Professional Development)* (each semester 2015-2018; starting 2019, each Spring until 2021)

### *Study Abroad*

- *Costa Rica – May –June 2018*. La Suerta Biological Field School, Maderas Rainforest Conservancy, escorted undergraduate and graduate students studying Neotropical bat biology, Arkansas State University
- *University of Queensland, Brisbane, Australia, Sabbatical – August 15 – December 29, 2017*. Collaborated with Dr. Peter James, working on muscid fly parasitoids and potential control in cattle feedlots

### *Workshops & Webinars Conducted for Commodity Stakeholders (detailed since 2015)*

- *October 23-24, 2025. Academic Impressions: -Workshop*. Essential skills for department chairs. Baltimore, MD.
- *December 6, 2023: Webinar: Stored Grains/Pluses Integrated Pest Management*. Global Supply Chain Management Department, Catholic Relief Services over 60 attendees from multiple countries in Africa, Southeast Asia and Central America. Webinar translated into French and other languages during the presentation.
- *May 2023: Presented: Stored Product Insect Identification; Fumigation Training for Ecolab Pest Elimination*, Jonesboro, AR
- *May 2022: Presented: Stored Product Insect Identification; Fumigation Training for Ecolab Pest Elimination*, Brinkley, AR

- *May 2022*: Presented: Stored Product Insect Identification and Integrated Pest Management, Anheuser-Busch Rice Mill personnel, Jonesboro, AR
- *April 2022*: Stored-product insects in rice mills: Unraveling complexities, Quality & Safety Summit, Riviana Rice Mill, Memphis, TN
- *Spring 2017*: Two workshop series for the USDA- Methyl Bromide Transition Grant in Eagle Lake, TX, Crowley, LA, Jonesboro, AR and Richvale, CA. I organized both series. In collaboration with OSU, LSU Agricultural Center, Texas A&M AgriLife Research, USDA-ARS, Manhattan, KS, and UC Davis, Extension, CA. Attendees: Rice millers, growers and extension agents
- *May 2011*: USDA-RAMP Project Workshop – Rice Mill Insect Pest Management, Optimizing Insect Control and Grain Quality; three workshops: Beaumont, TX, Crowley, LA & Jonesboro, AR. Organized the Jonesboro workshop; in collaboration with Oklahoma State University (OSU), University of Arkansas, Louisiana State University (LSU) Agricultural Center, Texas A&M AgriLife Research, and USDA-ARS, Manhattan, KS. Attendees: Rice millers, growers and extension agents
- *February 24, 25, & 27; April 7, 2015, and March 7, 8, & 10; April 5*: Two workshop series for the USDA- Methyl Bromide Transition Grant in Eagle Lake, TX, Crowley, LA, Jonesboro, AR and Richvale, CA. I organized both series. In collaboration with OSU, LSU Agricultural Center, Texas A&M AgriLife Research, and USDA-ARS, Manhattan, KS. Attendees: Rice millers, growers and extension agents

## PROFESSIONAL SERVICE

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### *Selected Journal Reviews (since 2009)*

- *Annals of the Entomological Society*
- *Journal of Agricultural and Urban Entomology*
- *Journal of Stored Products Research*
- *Condor*
- *Annals of Applied Biology*
- *Canadian Entomologist*
- *Behavioral Ecology and Sociobiology*
- *Environmental Entomology*
- *Journal of Economic Entomology*

### *Grant Proposal Reviews (since 2009)*

2022	United States Department of Agriculture - National Institute Food & Agriculture, Virtual panel
2017	United States Department of Agriculture - National Institute Food & Agriculture, Washington, DC
2013	National Science Foundation Graduate Research Fellowship Program
2013	Israel Binational Agricultural Research & Development Fund

### *Selected Consultation*

2022 -Present, United States Agency for International Development (USAID) –three teams to study the USAID Food aid supply chain. Developing comprehensive reports to review best practices for USAID and provide recommendations on integrated pest management and how to handle

grains throughout their supply chain that are shipped to Yemen, Djibouti, and South Africa. Weekly meetings. Scope: International.

- 2019-2022 Boehringer Ingelheim Animal Health, USA, Inc.
- 2020-2022 Mitchell, Williams, Selig, Gates & Woodyard, P.L.L.C., Little Rock, AR May 2020-February 2022. Entomological consultation on court case.
- 2019 Ceva Animal Health – Advisory for production of a booklet for veterinary clinicians for dirofilariasis and leishmaniasis, São Paulo, Brazil. Scope: International.
- 2019 External Reviewer for the Environmental Sciences Program, Tennessee Technological University, Cookeville, TN, five-year review for state funding.
- 2018 Member of the Arkansas Mosquito and Vector Task Force.
- 2012 Companion Animal Parasite Council – (CAPC) one of ~ 40 faculties invited from various institutions in the U.S. and Canada for a weekend discussion (Atlanta, GA) regarding heartworm, intestinal parasites and tick borne diseases. Part of the heartworm group consisting of three entomologists, an epidemiologist, two veterinarians and two statisticians. We were successful in working together in discussing the key factors associated with heartworm/mosquitoes. We had access to CAPC's database which maps all positive heartworm dogs in the U.S. down to county level (in 2014 - over 6.6 million data points).<http://www.capcvet.org/parasite-prevalence-maps/> . With this data we were able to publish two papers to date.
- 2010-2012 Heartworm Advisory Board Member (International) for Novartis Animal Health.

### *Societies*

Judge for Student poster/paper competitions at the Annual Entomological Society Meetings. Annual Meeting of the Entomological Society of America (Phoenix, AZ Nov. 2024; Vancouver, BC Nov. 2018; Portland, OR; Nov. 2014; Knoxville, TN, Nov. 2012; San Diego, CA, Dec.13, 2010); Southeastern Branch Meeting (Little Rock, AR, March 2023).

Entomological Society of America, Membership Committee, Chair (Fall 2009-2010). Worked with the committee to increase membership for the society. Organized several conference calls and organized the New Member Meet and Greet, Fall 2009 Annual Meeting in San Diego, CA.

Resolution's Committee for the Eastern Branch of the Entomological Society of America. (March 2016 – Fall 2016).

Entomological Foundation Educator's Workshop Committee (November 2015-2016).

Entomological Foundation Teacher Workshop – STEMbugs November 14, 2015. Two K-12 teacher workshops, held in Minneapolis, MN. Jello and insects.

President of the Kansas (Central States) Entomological Society (April 2011-12). Responsible for Organizing the 88<sup>th</sup> Annual Meeting of the Kansas (Central States) Entomological Society, at Arkansas State University, Jonesboro, AR (April 6, 2012). Responsible for all aspects of the meeting: registration, program

arrangements, hotel arrangements, catering, and program agenda.

### *Arkansas State University Committees*

#### *Leadership and Services to Department/College:*

- Fall- Spring 2023 Chair of the Cell Biology Assistant Professor Search Committee
- Spring 2021 Chair of the Microbiology Assistant Professor Search Committee
- 2017-Aug. 2020 Member of the Department of Biological Sciences Promotion, Retention and Tenure (PRT) Committee
- Fall/Spring 2019-20 Committee Member, Dept. Biological Sciences' Chair Search
- Spring/Fall 2019 Chair of the Environmental Scientist Search Committee
- Fall 2014 – 2021 Chair of the Environmental Sciences Program Committee
- Spring 2018 – 2021 Chair of the Molecular Biosciences Program Committee
- Fall 2018 –2021 Member of the Graduate Council
- Spring 2017 Chair of the Search Committee for Herpetology Position in the Dept. of Biological Sciences
- Spring 2011 Chair of the Search Committee for Wildlife Position in the Dept. of Biological Sciences
- Spring 2013 Member of the Search Committee for Ornithology position in the Dept. of Biological Sciences
- Fall 2010 - 2018 Molecular Biosciences Graduate Program Committee  
Committee Member
- Fall 2018 – 2020 Chair of the Dept. of Biological Sciences PRT Committee
- 2012 – 2015 Member of the College of Sciences and Mathematics PRT
- Fall 2018-2022
- Sept. 2012 – present Member of the Department of Biological Sciences Assessment Committee
- 2004 – 2015 Library Resource Coordinator

#### *Leadership and Services to A-State/Other Universities:*

- Spring 2023 Member of Search Committee, College of Agriculture  
*Wilson Chair Position, Assistant Professor*
- Fall 2019 – 2021 Chair's Council  
*Role: Represent the Environmental Sciences Program, College of Sciences & Mathematics*
- Fall 2010/2013 General Education Committee  
*Role/Time commitment: Represented the College of Sciences & Mathematics. Met on a weekly or biweekly basis to discuss General Education curriculum*
- Fall 2011 – 2016 Graduate Council  
Fall 2018 - 2021  
*Role: Represent the Environmental Sciences Program, College of Sciences & Mathematics. Discuss graduate curriculum once a month*
- October 2010 Insect Festival (University of Arkansas, Fayetteville, AR)

PUBLIC RELATIONS: VISUAL MEDIA & NEWSPAPERS (Selected)

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- 2024 [Researchers studying mosquitoes, recruit citizen scientists to help collect data \(KAIT8.com\)](#); [A-State awarded funds for citizen science project, mosquito data collection study](#); [Researchers Studying Mosquitoes, Recruit Citizen Scientists to Help Collect Data - NEA Report](#)
  - 2023 [A-State professors attract federal grants to conduct food grain protection research \(kait8.com\)](#)
  - 2014 Article in the Measure Magazine-The Research Publication of Arkansas State University; article entitled "Educate Inquiring Minds Want to Know", pp. 6-9  
*Article highlights the work my colleagues and I have been doing with CSI: Classroom Science Investigations, an NSF sponsored program for junior and senior high school teachers and students*
  - 2012 Spoke on behalf of the American Heartworm Society (AHS), "No Hiatus For Heartworm" Article picked up by PRNewswire
  - 2012. Novartis Animal Health, photo of a mosquito picked up by PRnewswire and publicized nationally at various venues, including the Times Square (New York City, NY) and the Las Vegas (NV) Strip (electronic screens and billboards)
  - 2012 Novartis Animal Health Flea Study Video (Case study). Filmed at Mark Dunham's horse facility in Jonesboro, AR. This video was used for *Invited* presentations in FL, NC, and VA
  - 2009 Discovery Channel's **Dirty Jobs**. Filmed "Dung Beetle Researcher". Season 5 "Glass Maker" Episode 16 (2009-2010); aired November 10, 2009 Series number: 115. Can now be downloaded through "[Dirty Jobs" Glass Maker \(TV Episode 2009\) - IMDb](#) or NetFlix or 2 min. video: [Dirty Jobs 516 Glass Maker - YouTube](#).

#### PROFESSIONAL MEMBERSHIP & DEVELOPMENT

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Member since 1998                      Entomological Society of America  
 Member since 2012                     American Heartworm Society

Essential Leadership Skill for Department Chairs, Academic Impressions, Oct. 23-24, 2025, Baltimore, MD.

#### AWARDS & HIGHLIGHTS

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- 2024 Office of Acquisition and Assistance Transportation, Award of Appreciation, Contributions to the Container & Cocoon Research Project, United State Agency for International Development (USAID), October, Houston, TX. Scope: International.
- 2023 Office of Acquisition and Assistance Transportation, Award of Appreciation, United State Agency for International Development (USAID), September, Kansas City, KS. Scope: International.
- 2021 Career highlighted in article: Whitener, A., A. Romero, R. Simmons, and J. Ware. 2021. Profiles of ESA Member Diversity: Navneet Kaur (P-IE and PBT Sections) and Tanja McKay (MUVE Section). *American Entomologist* 67(3): 36-40. <https://doi.org/10.1093/ae/tmab045>.

- 2019 Kansas State University, Department of Entomology, 2019 Distinguished Alumnus Award. October, Manhattan, KS.
- 2011 Southeastern Branch Distinguished Achievement Award in Teaching, Southern Branch, Entomological Society of America (ESA), March, San Juan, Puerto Rico. (National Award).
- 2011 Entomological Society of America (ESA) Distinguished Achievement Award in Teaching, November, Reno, NV (International Award).