

CURRICULUM VITAE

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EDUCATION:

Ph.D. in Zoology May 1996. Department of Zoology, Southern Illinois University, Carbondale, Illinois; Dr. J. E. McPherson, Chair.

M.S. in Biology August 1987. Department of Biology, Texas A&M University, College Station, Texas; Dr. Merrill H. Sweet, Chair.

B.A. with Distinction in Biology 1983. Hendrix College, Conway, Arkansas.

PROFESSIONAL SERVICE FOR ORGANIZATIONS:

- Board of Directors, Subterranean Ecology Institute. Treasurer (May 2021 – present); President, (Jan 2011 – April 2021)
- Board of Directors, Cave Conservancy of the Virginias (October 2020 – September 2023)
- Chair, Cave Biological Response Committee, National Speleological Society (February 2021 – present)
- Steering Committee, National Cave and Karst Management Symposium (March 2014 – 2021)
- Member, IUCN SSC Cave Invertebrate Specialist Group, Species Survival Commission of the International Union for Conservation of Nature (IUCN) (15 Mar 2014 – 2016, 2017 – 2020)
- Board of Directors, Illinois Speleological Survey (2003 – November 2019)
- Technical Manager of Microbiology and Entomology, Sociedad Espeleológica Científica Ecuatoriana (Ecuadorian Scientific Speleological Society) (January 2012 – March 2019)
- Council, Société Internationale de Biospéologie - International Society for Subterranean Biology (June 2016 – June 2018)
- Organizing Committee, 23rd International Conference on Subterranean Biology, 13-17 June 2016, Fayetteville, Arkansas, USA (2014 – 2017)
- Science Advisor, Clifftop NFP (2010 – 2017)
- Southwestern Illinois Wildlife Action Plan Partnership (2012 – 2017)
- Horseshoe Bay Cave Science Advisory Group (January 2013 – 2017)
- Board of Directors, Karst Waters Institute (April 2011 – March 2016)
- Nominations Committee, Karst Waters Institute (March 2011 – March 2016)

PROFESSIONAL EXPERIENCE:

Independent Consultant, June 2020 – present

Associate Research Professor, Colorado College. August 2017 — May 2020.

Senior Conservation Biologist, Illinois Natural History Survey, Prairie Research Institute, University of Illinois Urbana-Champaign. April 2016 – July 2017.

Assistant Research Program Leader in Conservation Biology, Illinois Natural History Survey, Prairie Research Institute, University of Illinois Urbana-Champaign. July 2014 – April 2016

Assistant Research Program Leader in Macroinvertebrate Biology, Illinois Natural History Survey, Prairie Research Institute, University of Illinois Urbana-Champaign. 50% time October 2010 – July 2014.

Aquatic Biologist/Aquatic Zoology Coordinator for the Statewide Biological Survey and Assessment Program, Illinois Natural History Survey. Assistant Research Scientist: January 2000 – August 2001; Associate Research Scientist: September 2001 – October 2007; Research

Scientist: November 2007 – June 2008; Macroinvertebrate Biologist: July 2008 – October 2010.
50% time October 2010 – July 2014.

Aquatic Entomologist, Illinois Natural History Survey. Assistant Research Scientist: July 1997 – December 1999.

Field Assistant, Illinois Natural History Survey. Performing a status survey of an Illinois endemic cave amphipod, *Gammarus acherondytes*. May – June 1995.

Scientist, Engineering Science, Inc. Examining caves north of Nashville, Tennessee, looking for federally endangered bats along proposed interstate highway alignments. April – May 1994.

Research Assistant, Department of Cinema and Photography, Southern Illinois University. Assisted Charles Swedlund in grant funded photographic research on historical names in Mammoth Cave, Kentucky. Summer 1994.

Entomologist, Illinois Natural History Survey. Field team leader on a two year (1992-1993) grant surveying the biota and water quality of Illinois caves and other subterranean habitats.

Field Technician, Performing an inventory of bats at Horseshoe Lake Conservation Area, Southern Illinois University at Carbondale. June 1993 – August 1993.

Field Assistant, Illinois Natural History Survey. Performing a status survey of an Illinois endemic cave amphipod, *Gammarus acherondytes*. May 1993 – September 1993.

Data Analyst, Department of Biology, Texas A&M University. Carried out computer analysis of distributional patterns of decapod crustaceans of the west coast of the America's for Dr. Mary K. Wicksten. Spring 1985

Seasonal Agricultural Technician, Cooperative Extension Service, University of Arkansas. Field work on cotton pest insecticide resistance, curated insect collection. Summer 1986

Software Developer, Department of Biology, Hendrix College. Designed and wrote software to analyze field data on forest succession and composition for Plant Ecology class. Fall 1982

Research Assistant, American Museum of Natural History's Southwestern Research Station, Portal, Arizona. Assisted Dr. Pete Blancher in collection of field and laboratory data on the food supply and breeding biology of Western and Cassin's Kingbirds. Summer 1979

Volunteer. American Museum of Natural History's Southwestern Research Station, Portal, Arizona. Assisted various researchers (graduate students, professors, etc.) with assorted research projects, including studies of spadefoot toads, kingbirds, ants, and treehoppers. Summer 1978.

PROFESSIONAL AFFILIATIONS:

- Research Affiliate, Illinois Natural History Survey, Prairie Research Institute, University of Illinois at Urbana-Champaign (16 February 2018 – present)
- Department of Entomology, University of Illinois at Urbana-Champaign (2005 – July 2017)
- Associate Research Professor, Colorado College (Fall 2017 – April 2020)
- North Carolina Academy of Science (June 2020 – December 2023)
- Research Associate, Zoology Department, Denver Museum of Nature & Science (January 1, 2018 – December 31, 2020)
- Department of Animal Biology, University of Illinois at Urbana-Champaign (March 2016 – July 2017)
- Program in Ecology, Evolution, and Conservation Biology (PEEC), School of Integrative Biology, University of Illinois at Urbana-Champaign (December 2011 – July 2017)
- Department of Zoology, Southern Illinois University at Carbondale (2005 – July 2017)
- Department of Natural Resources and Environmental Sciences, University of Illinois at Urbana-Champaign (2004 – 2007)

PEER REVIEWED PUBLICATIONS:

Myers, A.A., Lowry, J.K., **Taylor, S.J.**, Slay, M.E., Slay, C.M., and M.L. Porter. 2023. New species of *Spelaeorchestia* (Crustacea: Amphipoda: Talitroidea) from lava tube caves on the

- Island of Hawai'i in the Hawaiian archipelago. **Bishop Museum Occasional Papers** 155: 185–199.
- Camacho, A.I., P. Mas-Peinado, C.B. Bonwell, J.N. McDonald, B.A. Dorda, I. Rey and **S.J. Taylor**. 2023. Description of a new species of *Hobbsinella* (Crustacea, Bathynellacea, Bathynellidae) from Colorado (USA) based on morphological and molecular characters. **European Journal of Taxonomy** 891: 87–109. DOI: <https://doi.org/10.5852/ejt.2023.891.2273>
- Heads, S.W. & **S.J. Taylor**. 2022. First record of a fossil coral (Anthozoa) from Pleistocene marine deposits at Terra Ceia, North Carolina. **Kentiana** 2: 1–4. DOI: <https://doi.org/10.21900/j.kentiana.n2.1160>
- Cable, A.B., T.C. Hohoff, J.L. Deppe, **S.J. Taylor**, and M.A. Davis. 2022. Larger trees may support larger Indiana bat maternity colonies in a dynamic landscape. **The Journal of Wildlife Management** e22254. DOI: <https://doi.org/10.1002/jwmg.22254>
- Gaulke, S.M., J.Z. Chace, **S.J. Taylor**, M.A. Davis, M.L. Niemiller, and G.W. Schuett. 2021. *Agkistrodon contortrix* (Eastern Copperhead). Reproduction, Male Combat, and Phenology. **Herpetological Review** 52(2):414–415.
- Swanson, D.R., S.W. Heads, **S.J. Taylor**, and Y. Wang. 2021. A new remarkably preserved fossil assassin bug (Insecta: Heteroptera: Reduviidae) from the Eocene Green River Formation of Colorado. **Papers in Palaeontology** 20p. DOI: <https://doi.org/10.1002/spp2.1349>
- Cinel, S.D. and **S.J. Taylor**. 2020. Prolonged Bat Call Exposure Induces a Broad Transcriptional Response in the Male Fall Armyworm (*Spodoptera frugiperda*; Lepidoptera: Noctuidae) Brain. Pages 168-206 in: Blundell, J. J., Preisser, E., eds. (2020). **Integrating Predation Risk Across Scales: From Neurons to Ecosystems and Milliseconds to Generations**. Lausanne: Frontiers Media SA. Doi: 10.3389/978-2-88963-736-2 [2019 journal article republished as e-book chapter]
- Liu, Y., **S.J. Taylor** and W. Cai. 2020. Review of the Neotropical Peiratine genus *Thymbreus* Stål (Hemiptera: Reduviidae), **Annales de la Société entomologique de France (N.S.)**, 56(5): 374–386. DOI: 10.1080/00379271.2020.1830712
- Cable, A.B., J.M. O'Keefe, J.L. Deppe, T.C. Hohoff, **S.J. Taylor**, M.A. Davis. 2020. Habitat suitability and connectivity modeling reveal priority areas for Indiana bat (*Myotis sodalis*) conservation in a complex habitat mosaic. **Landscape Ecology** 19p. DOI: <https://doi.org/10.1007/s10980-020-01125-2> (published online 28 Sept 2020)
- Niemiller, M.L. and **S.J. Taylor**. 2019. Chapter 99. Protecting cave life. Pages 822–829 in: **Encyclopedia of Caves, 3rd Ed.** (W.B. White, D.C. Culver, and T. Pipan, eds.). Elsevier. eBook ISBN: 9780128141250 Paperback ISBN: 9780128141243
- Taylor, S.J.** 2019. Chapter 94. Orthoptera. Pages 779–783 in: **Encyclopedia of Caves, 3rd Ed.** (W.B. White, D.C. Culver, and T. Pipan, eds.). Elsevier. eBook ISBN: 9780128141250 Paperback ISBN: 9780128141243
- Niemiller M.L., **S.J. Taylor**, M.E. Slay, and H.H. Hobbs III. 2019. Chapter 19. Biodiversity in the United States and Canada. Pages 163–176 in: **Encyclopedia of Caves, 3rd Ed.** (W.B. White, D.C. Culver, and T. Pipan, eds.). Elsevier. eBook ISBN: 9780128141250 Paperback ISBN: 9780128141243
- Cinel, S.D. and **S.J. Taylor**. 2019. Prolonged bat call exposure induces a broad transcriptional response in the male fall armyworm (*Spodoptera frugiperda*; Lepidoptera: Noctuidae) brain. **Frontiers in Behavioral Neuroscience** 13:36. DOI: <https://doi.org/10.3389/fnbeh.2019.00036>
- Niemiller M.L., **S.J. Taylor**, and M.E. Bichuette. 2018. Conservation of cave fauna, with an emphasis on Europe and the Americas. Pages 451–478 in: **Cave Ecology**, (Moldovan, O.T., Kováč, L., & Halse, S., eds.). Ecological Studies (Analysis and Synthesis), vol 235. vii + 545 p. Springer Nature Switzerland. DOI: https://doi.org/10.1007/978-3-319-98852-8_22
- Baena-Bejarano, N., S.W. Heads, and **S.J. Taylor**. 2018. Comments on the neglected nymphs of mud crickets in the genus *Mirhipipteryx* (Caelifera: Tridactyloidea: Ripipterygidae). **Zootaxa**

- 4486(2): 180–188. DOI: <http://dx.doi.org/10.11646/zootaxa.4486.2.7>
- Katz, A.D., **S.J. Taylor** and M. Davis. 2018. At the confluence of vicariance and dispersal: Phylogeography of cavernicolous springtails (Collembola: Arrhopalitidae, Tomoceridae) codistributed across a geologically complex karst landscape in Illinois and Missouri. **Ecology & Evolution** 8(18):1–20. DOI: <https://doi.org/10.1002/ece3.4507>
- Sidorov, D., **S.J. Taylor**, S. Sharina, and A. Gontcharo. 2018. Zenkevitchiidae fam. nov. (Crustacea: Gammaroidea), with description of new subterranean amphipods from extremely deep cave habitats. **Journal of Natural History** 52(23–24): 1509–1535. DOI: <https://doi.org/10.1080/00222933.2018.1482017>
- Engel, A.S., M.L. Niemiller, K.S. Zigler, C.D.R. Stephen, E.T. Carter, A.T. Patterson, S.W. Keenan, and **S.J. Taylor**. 2017. Invertebrate and vertebrate cave fauna records for the Appalachian Valley and Ridge. Pages 82-86 in: Moore K., White S. (Eds). **Proceedings of the 17th International Congress of Speleology (Ed. 2)**, July 23-29, Sydney, NSW Australia. Volume 1, Australian Speleological Federation Inc. Sydney. ISBN 978-0-9588857-0-6.
- Elliott, W.R., J.R. Reddell, D.C. Rudolph, G.O. Graening, T.S. Briggs, D. Ubick, R.L. Aalbu, J.K. Krejca and **S.J. Taylor**. 2017. The Cave Fauna of California. **Proceedings of the California Academy of Sciences**, Series 4. Volume 64(Supplement 1): 1-311.
- Panno, S.V., D.E. Luman, W.R. Kelly, T.H. Larson and **S.J. Taylor**. 2017. Karst of the Driftless Area of Jo Daviess County, Illinois. **Illinois State Geological Survey, Circular** 586. 39 p. + map.
- Niemiller M.L., M.L. Porter, J. Keany, H. Gilbert, D.W. Fong, D.C. Culver, C. Hobson, K.D. Kendall, M.A. Davis, and **S.J. Taylor**. 2017. Evaluation of eDNA for groundwater invertebrate detection and monitoring: a case study with endangered *Stygobromus* (Amphipoda: Crangonyctidae). **Conservation Genetics Resources** 11 p. DOI: <https://doi.org/10.1007/s12686-017-0785-2>
- Fenolio, D.B., M.L. Niemiller, A.G. Gluesenkamp, A.M. McKee, and **S.J. Taylor**. 2017. New distributional records of the stygobitic crayfish *Cambarus cryptodytes* (Decapoda: Cambaridae) in the Floridan aquifer system of southwestern Georgia. **Southeastern Naturalist** 16(2): 163–181. DOI: <https://doi.org/10.1656/058.016.0205>
- Swanson, D.R., **S.J. Taylor** and S.W. 2017. Heads. Nine true bugs (Heteroptera) newly-discovered in Illinois. **Zootaxa** 4269(4): 571–585. DOI: <http://dx.doi.org/10.11646/zootaxa.4269.4.10>
- Dodgen, L.K., W.R. Kelly, S.V. Panno, **S.J. Taylor**, D.L. Armstrong, K.N. Wiles, Y. Zhang, W. Zheng. 2017. Characterizing pharmaceutical, personal care product, and hormone contamination in a karst aquifer of southwestern Illinois, USA, using water quality and weather parameters. **Science of the Total Environment** 578: 281–289. DOI: <http://dx.doi.org/10.1016/j.scitotenv.2016.10.103>
- Taylor, S.J.**, L.A. Durden, E.H. Foley and W.K. Reeves. 2016. The bat tick *Carios azteci* (Acari: Argasidae) from Belize, with an endosymbiotic Coxiellaceae. **Speleobiology Notes** 8:16–21. DOI: <http://dx.doi.org/10.5563/spbn.v8i0.81>
- Nardi, J., C.M. Bee, and **S.J. Taylor**. 2016. Compartmentalization of microbial communities that inhabit the hindgut of millipedes. **Arthropod Structure & Development** 45(5): 462–474. DOI: <http://dx.doi.org/10.1016/j.asd.2016.08.007>
- Sidorov, D.A., A.D. Katz, **S.J. Taylor**, and M.V. Chertoprud. 2016. A reassessment of the phylogenetic utility of genus-level morphological characters in the family Bogidiellidae (Crustacea, Amphipoda), with description of a new species of *Eobogidiella* Karaman, 1981. **ZooKeys** 610: 23–43. DOI: <http://dx.doi.org/10.3897/zookeys.610.9100>
- Niemiller, M.L., K.S. Zigler, C.D.R. Stephen, E.T. Carter, A.T. Paterson, **S.J. Taylor** and A.S. Engel. 2016. Vertebrate fauna in caves of the eastern Tennessee within the Appalachians karst region, USA. **Journal of Cave and Karst Studies** 78(1): 1–24. DOI: <http://dx.doi.org/10.4311/2015LSC0109>
- Weck, R.W. and **S.J. Taylor**. 2016. Life history studies of a cave-dwelling population of *Physa* snails (Gastropoda: Basommatophora: Physidae) from southwestern Illinois. **Speleobiology Notes** 8: 1–9. DOI: <http://dx.doi.org/10.5563/spbn.v8i0.83>

- Katz, A.D., **S.J. Taylor**, F.N. Soto-Adames, A. Addison, G.B. Hoese, M.R. Sutton and T. Toulkeridis. 2016. New records and new species of springtails (Collembola: Entomobryidae, Paronellidae) from lava tubes of the Galápagos Islands (Ecuador). **Subterranean Biology** 17: 77–120. DOI: <http://dx.doi.org/10.3897/subtbiol.17.7660>
- Niemiller, M.L., B.M. Glorioso, D.B. Fenolio, R.G. Reynolds, **S.J. Taylor** and B.T. Miller. 2016. Life history and demography of the Big Mouth Cave Salamander (*Gyrinophilus palleucus necturoides*) from the type locality in Grundy Co., Tennessee, USA. **Copeia** 104(1): 35–41. DOI: <http://dx.doi.org/10.1643/OT-14-197>
- Weckstein, J.D., K.P. Johnson, J.D. Murdoch, J.K. Krejca, D.M. Takiya, G. Veni, J.R. Reddell and **S.J. Taylor**. 2016. Comparative phylogeography of two codistributed subgenera of cave crickets. **Journal of Biogeography** 43: 1450–1463. <http://dx.doi.org/10.1111/jbi.12734>
- Taylor, S.J.** and M.L. Niemiller. 2016. Biogeography and conservation assessment of *Bactrurus* groundwater amphipods (Crangonyctidae) in the central and eastern United States. **Subterranean Biology** 17: 1–29. DOI: <http://dx.doi.org/10.3897/subtbiol.17.7298>
- Taylor, S.J.**, J.K. Krejca, M.L. Niemiller, M.J. Dreslik, and C.A. Phillips. 2015. Life history and demographic differences between cave and surface populations of the Western Slimy Salamander *Plethodon albagula* (Caudata: Plethodontidae), in central Texas. **Herpetological Conservation and Biology** 10(2): 740–752.
- Swanson, D.R., A.D. Yanahan and **S.J. Taylor**. 2015. First record of the dirt-colored seed bug, *Sisamnes claviger* (Heteroptera: Rhyparochromidae: Myodochini), in Illinois. **Entomological News** 124(5): 357–363. DOI: <http://dx.doi.org/10.3157/021.124.0509>
- Sidorov, D.A., A.A. Gontcharov, D.M. Palatov, **S.J. Taylor** and A.A. Semenchenko. 2015. Shedding light on a cryptic cavernicole: A second species of *Zenkevitchia* Birstein (Crustacea: Amphipoda: Typhlogammaridae) discovered via molecular techniques. **Subterranean Biology** 15: 37–55. DOI: <http://dx.doi.org/10.3897/subtbiol.15.4872>
- Espinasa, L., R. Garvey, J. Espinasa, C.A. Fratto, **S.J. Taylor**, T. Toulkeridis, and A. Addison. 2015. Cave dwelling Onychophora from a lava tube in the Galapagos. **Subterranean Biology** 15: 1–10. DOI: <http://dx.doi.org/10.3897/subtbiol.15.8468>
- Yanahan, A.D. and **S.J. Taylor**. 2014. Vegetative communities as indicators of ground beetle (Coleoptera: Carabidae) diversity. **Biodiversity and Conservation** 23(6): 1591–1609. DOI: <http://dx.doi.org/10.1007/s10531-014-0688-4>
- Heads, S.W., **S.J. Taylor** and J.K. Krejca. 2013. First record of *Scapteriscus abbreviatus* from Belize (Orthoptera: Gryllotalpidae). **Entomological News** 123(3): 241–244. DOI: <http://dx.doi.org/10.3157/021.123.0311>
- Baker, G.M., **S.J. Taylor**, S. Thomas, R. Olson, K. Lavoie, M. Denn, S.C. Thomas, H. Barton, K.L. Helf, R. Ohms, J. Despain, J. Kennedy, and D. Larson. 2013. National Park Service Cave Ecology Inventory and Monitoring Framework. Pages 117–125 in Land L, Joop M, editors. 2013. **National Cave and Karst Management Symposium: Proceedings of the Twentieth Conference**, November 4–8, Carlsbad, New Mexico: NCKRI Symposium 3. Carlsbad (NM): National Cave and Karst Research Institute. xii + 175 pp.
- Soto-Adames, F.N. and **S.J. Taylor**. 2013. New species and new records of springtails (Hexapoda: Collembola) from caves in the Salem Plateau of Illinois, USA. **Journal of Cave and Karst Studies** 75(2): 146–175. DOI: <http://dx.doi.org/10.4311/2011LSC0257>
- Soto-Adames F.N. and **S.J. Taylor**. 2013. The dorsal chaetotaxy of *Trogolaphysa* (Collembola, Paronellidae), with descriptions of two new species from caves in Belize. **Zookeys** 323: 35–74. DOI: <http://dx.doi.org/10.3897/zookeys.323.4950>
- Espinasa, L., **S.J. Taylor** and M. Espinasa. 2013. A new record of *Nicoletia phytophila* (Nicoletiidae: Zygentoma: Insecta) from a cave in Belize. **Speleobiology Notes** 5: 38–42.
- Bond, J.E. and **S.J. Taylor**. 2013. A new species of *Tarsonops* (Araneae, Caponiidae) from southern Belize, with a key to the genera of the subfamily Nopinae. **ZooKeys** 289: 57–64. DOI: <http://dx.doi.org/10.3897/zookeys.289.4493>

- Slay, M.E., P.E. Skelly and **S.J. Taylor**. 2012. New records of *Onthophagus cavernicollis* Howden and Cartwright (Coleoptera: Scarabaeidae) from Ozark caves with a review of scarabaeoids reported from US and Canadian caves. **Coleopterist's Bulletin** 66(3): 187–199. DOI: <http://dx.doi.org/10.1649/072.066.0302>
- Taylor, S.J.**, A. Addison and T. Toulkeridis. 2012. Biological potential of under-studied cave fauna of the Galapagos Islands. **Revista Geoespacial** 8: 13–22.
- Slay, M.E., and **S.J. Taylor**. 2012. *Brackenridgia ashleyi* (Isopoda: Trichoniscidae): range extension with notes on ecology. **Journal of Cave and Karst Studies** 73(3): 197–200. DOI: <http://dx.doi.org/10.4311/2011LSC0221>
- Heads, S.W. and **S.J. Taylor**. 2012. A new species of *Ripipteryx* from Belize (Orthoptera, Ripipterygidae) with a key to the species of the Scrofulosa Group. **Zookeys** 168: 1–8. DOI: <http://dx.doi.org/10.3897/zookeys.169.2531>
- Disney, R.H.L., **S.J. Taylor**, M.E. Slay and J.K. Krejca. 2011. New species of scuttle flies (Diptera: Phoridae) recorded from caves in Nevada, USA. **Subterranean Biology** 9: 73–84. DOI: <http://dx.doi.org/10.3897/subtbiol.9.2511>
- Vilkamaa, P., H. Hippa and **S.J. Taylor**. 2011. The genus *Camptochaeta* in Nearctic caves, with the description of *C. prolixa* sp. n. (Diptera, Sciaridae). **ZooKeys** 135: 69–75. DOI: <http://dx.doi.org/10.3897/zookeys.135.1624>
- Yannarell, A.C., R.R. Busby, M.L. Denight, D.L. Gebhart, and **S.J. Taylor**. 2011. Soil bacteria and fungi respond on different spatial scales to invasion by the legume *Lespedeza cuneata*. **Frontiers in Terrestrial Microbiology** 2: art. 127, 12p. DOI: <http://dx.doi.org/10.3389/fmicb.2011.00127>
- McPherson, J.E., R.J. Packauskas, R.W. Sites, **S.J. Taylor**, C.S. Bundy, J.D. Bradshaw, and P.L. Mitchell. 2011. Review of *Acanthocephala* (Hemiptera: Heteroptera: Coreidae) of America north of Mexico with a key to species. **Zootaxa** 2835: 30–40.
- Taylor, S.J.** and J.R. Holsinger. 2011. A new species of the subterranean amphipod crustacean genus *Stygobromus* (Crangonyctidae) from a cave in Nevada, USA. **Subterranean Biology** 8: 39–47. DOI: <https://doi.org/10.3897/subtbiol.8.1230>
- Zahniser, J.N., **S.J. Taylor**, and J.K. Krejca. 2010. First reports of the invasive grass-feeding leafhopper *Balclutha rubrostriata* (Melichar) (Hemiptera: Cicadellidae) in the United States. **Entomological News** 121(2): 132–138. DOI: <http://dx.doi.org/10.3157/021.121.0204>
- Kathirithamby, J., **S.J. Taylor**, and R. Lareau. 2010. Correction to new state record and northeastern range extension for *Caenocholax fenyessi* sensu lato (Strepsiptera: Myrmecolacidae). **Florida Entomologist** 93(3): 473. DOI: <http://dx.doi.org/10.1653/024.093.0329>
- Disney, R.H.L., **S.J. Taylor** and M.E. Slay. 2010. Review of the scuttle flies (Diptera: Phoridae) recorded from caves in the USA, with new records from Arkansas and Missouri. **Subterranean Biology** 7: 75–96.
- Zacharda, M., D. Fong, H.H. Hobbs III, E. Piva, M.E. Slay, and **S.J. Taylor**. 2010. A review of the genus *Traegardhia* (Acari, Prostigmata, Rhagidiidae) with descriptions of new species and a key to species. **Zootaxa** 2474: 1–64.
- Tinerella, P.P., **S.J. Taylor**, and J.E. McPherson. 2009. New records and a checklist of aquatic True Bugs (Heteroptera: Nepomorpha) from Illinois. **Journal of the Kansas Entomological Society** 82(4): 293–299.
- Zeppelini, D., **S.J. Taylor**, and M.E. Slay. 2009. Cave *Pygmarrhopalites* Vargovitsh, 2009 (Collembola, Symphypleona, Arrhopalitidae) in United States. **Zootaxa** 2204: 1–18.
- Taylor, S.J.**, A.C. Phillips, S.L. Post, and S.E. Brown. 2009. An overview of Illinois' geological history and landscape. Pages 7–23 in *Canaries in the Catbird Seat*, C.A. Taylor, J.B. Taft, and C.E. Warwick (eds.). Illinois Natural History Survey Special Publication No. 30, Champaign, IL. 306 pp.
- Kathirithamby, J., **S.J. Taylor**, and J.T. Longino. 2009. New host record for *Caenocholax fenyessi* sensu lato (Strepsiptera: Myrmecolacidae) from Costa Rica. **Pan-Pacific Entomologist** 85(1): 8–10.

- Shear, W.A., **S.J. Taylor**, J.J. Wynne & J.K. Krejca. 2009. Cave millipeds of the United States. VIII. New genera and species of polydesmidan millipeds from caves in the southwestern United States (Diplopoda, Polydesmida, Macrostermodesmidae). **Zootaxa** 2151: 47–65.
- Taylor, S.J.** 2009. Concurrent phenologies of three semiaquatic bugs (Heteroptera: Gerridae, Veliidae) on a small river in central Illinois, USA. **Psyche** vol. 2009, Article ID 562471, 5 pages, 2009. DOI: <http://dx.doi.org/10.1155/2009/562471>
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EXTERNAL GRANTS & CONTRACTS:

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- Katz, A.D. and **S.J. Taylor**. 2017. Bioinventory of lava tube cave springtails in Lassen National Forest: an ecologically important, under-studied group of cavernicoles. USDA Forest Service, Lassen National Forest, California. **\$7,902** for 9 months (3 April 2017 – 31 December 2017).
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- Taylor, S.J.**, S.V. Panno, W.R. Kelly. 2013. Karst groundwater contaminants in western Illinois: comparison of current conditions with historical data. Proposal submitted 17 September 2013 to the National Great Rivers Research and Education Center, **\$45,000** for 8.5 months (16 October 2013 – 30 June 2014).
- Toulkeridis, T., O. Padilla, E. Kirby, A. Addison, and **S.J. Taylor**. 2013. Cartografía, geología estructural e inventario biológico de cuevas cársticas y volcánicas en la Cuenca Amazónica Ecuatoriana y en los volcanes Santa Cruz y Sierra Negra en Galápagos (Mapping, structural geology and biological inventory of karst and volcanic caves of the Ecuadorian Amazon Basin and the Santa Cruz and Sierra Negra volcanoes in the Galapagos Islands). Proyectos de Investigación Básica y Aplicada de la ESPE 2014 - Aprobados en Cív 2013-005-ESPE-b1 (Basic and Applied Research Projects for ESPE 2014 - Approved 2013-005-ESPE-b1), Código (Code): 2014-PIT-012. Departamento de Ciencias de la Tierra y la Construcción, Escuela Politécnica del Ejército (ESPE) (Department of Earth Sciences and Construction, Army Polytechnic School), Sangolquí, Ecuador. **\$47,700** for 1 year (1 January 2014 – 31 December 2014).
- Heads, S.W., D.R. Swanson and **S.J. Taylor**. 2013. Regional biodiversity of terrestrial Heteroptera and Orthoptera in southwestern Illinois. Illinois Department of Natural Resources, Illinois Wildlife Preservation Fund, **\$2,000** for 1.42 years (1 July 2013 – 1 December 2014).

- Taylor, S.J.** and F.N. Soto-Adames. 2013. Biotic Inventory of Invertebrates at Horseshoe Bay Cave. Wisconsin Department of Natural Resources **\$2,918** for 1 year (March 2013 – March 2014).
- Taylor, S.J.**, A.C. Yannarell, F. N. Soto-Adames and Sam W. Heads. 2011. Southern Illinois cave ecosystems: bioinventories, microbial communities & management plans. USDA Forest Service, **\$20,000** for 4.5 years (1 Dec 2011 – 31 May 2016)
- Taylor, S.J.**, A.N. Miller, A.C. Yannarell, J.F. Merritt, N. Mateus-Pinilla and E.J. Heske. 2011. White Nose Syndrome & Illinois Bat Hibernacula. Illinois Department of Natural Resources, Section 6 Endangered & Threatened Species Program, **\$114,706** for 3.92 years (1 September 2011 – 31 July 2015).
- Taylor, S.J.**, A.C. Yannarell, A.N. Miller, E.J. Heske, N. Mateus-Pinilla and J.F. Merritt. 2011. White Nose Syndrome & Illinois Bat Populations: Biology & Monitoring. Illinois Department of Natural Resources, State Wildlife Grant Program, **\$210,000** for 3 years (1 August 2011 – 31 July 2014).
- Taylor, S.J.**, J.N. Zahniser, S.W. Heads, F.N. Soto-Adames, J.R. Wiker and A.D. Yanahan. 2011. Braidwood Dunes and Savanna: Invertebrate Inventory. Forest Preserve District of Will County, **\$18,000** for 1.75 years (1 June 2011 – 30 September 2014).
- Taylor, S.J.** and A.D. Yanahan. 2011. Ground Beetle assemblages on Illinois' algific talus slopes: a rare habitat threatened by climate change. Illinois Department of Natural Resources – Wildlife Preservation Fund, **\$1,958** for 1 year (1 May 2011 – 30 April 2012).
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- Taylor, S.J.** and A.C. Yannarell. 2011. *Lespedeza cuneata* (Fabaceae) Invasion Dynamics: Legacy feedback effects and microbial communities. U.S. Army Engineer Research and Development Center (ERDC-CERL), **\$91,726** (1 February 2011 – 1 March 2014).
- Taylor, S.J.**, M.R. Douglas and J.S. Tiemann. 2011. Baseline monitoring and molecular characterization of the state endangered Enigmatic Cavesnail, *Fontigens antroecetes* (Hubricht 1940). Illinois Endangered Species Protection Board **\$2,878** (3 January – 15 October 2011).
- Taylor, S.J.** and A.C. Yannarell. 2010. *Lespedeza cuneata* (Fabaceae) Invasion Dynamics: Microbial symbionts, legacy effects, community alteration & variation. U.S. Army Engineer Research and Development Center. **\$53,422** (16 September 2010 - December 31, 2011).
- Taylor, S.J.** 2010. Hine's Emerald Dragonfly: 5-Year Review of Recovery Plan. Illinois Department of Natural Resources. **\$5,000**. (15 August 2010 – 31 October 2011)
- Taylor, S.J.**, A.C. Yannarell, and A. Hagar. 2010. *Lespedeza cuneata* (Fabaceae) Invasion Dynamics: Further Studies. U.S. Army Engineer Research and Development Center. **\$104,874**. (February 2010 – 31 March 2011).
- Soto-Adames, F. and **S.J. Taylor**. 2009. Status assessment survey for springtails (Collembola) in Illinois caves. Illinois Endangered Species Protection Board. **\$4,663**. (1 April 2009 – 31 March 2010).
- Taylor, S.J.**, A.C. Yannarell, and A. Hagar (Co-Investigators). 2009. *Lespedeza cuneata* (Fabaceae) Invasion Dynamics. U.S. Army Engineer Research and Development Center. **\$56,995**. (9 March 2009 – 30 April 2010).
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- Taylor, S.J.** and J.K. Krejca. 2006. Biological inventory and monitoring protocol for caves in Great Basin National Park, Nevada. Agency: Great Basin National Park, National Park Service. **\$25,578** for 22 months (ends 31 March 2008).
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- Taylor, S.J.** and C.A. Phillips. 2005. Mark/Recapture Study of *Plethodon* sp. at Fort Hood, Texas. Agency: U. S. Army Engineer Research and Development Center, Champaign, Illinois. **\$95,582** for 14 months (ends September 30, 2006).
- Taylor, S.J.**, J.K. Krejca, and K.C. Hackley. 2005. Examining possible foraging differences in urban and rural cave cricket populations: Preliminary study of carbon and nitrogen isotope ratios ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$) as indicators of trophic level. Agency: Texas Parks and Wildlife Department. **\$42,944** for 2.5 years (ends December 1, 2007).
- Taylor, S.J.** and J.K. Krejca. 2005. A biological assessment of ten caves in Lava Beds National Monument. Agency: Lava Beds National Monument, National Park Service, Tulelake, California. **\$18,800** for 1 year (ends April 30, 2006).
- Taylor, S.J.**, J.D. Weckstein, J.K. Krejca, G. Veni, K.P. Johnson, and J.R. Reddell. 2005. Phylogeography of cave crickets (*Ceuthophilus* spp.) in central Texas: A keystone taxon for the conservation and management of federally endangered cave arthropods. Agency: Texas Parks and Wildlife Department. **\$19,720** for 2.5 years (ends December 1, 2007).
- Taylor, S.J.**, A.V. Suarez, and C.H. Dietrich. 2004. Supplement to: Insect biodiversity in forested and cleared lands at Camp Atterbury, Indiana: Terrestrial Insects and Environmental Health. Agency: Agency: U. S. Army Engineer Research and Development Center, Champaign, Illinois. **\$8,703** for 4.5 months (ends December 30, 2004).
- Taylor, S.J.**, A.V. Suarez, and C.H. Dietrich. 2004. Insect biodiversity in forested and cleared lands at Camp Attebury, Indiana: Study design for evaluation and monitoring of temporal changes and land-use effects in disturbed watersheds. Agency: Agency: U. S. Army Engineer Research and Development Center, Champaign, Illinois. **\$34,999** for 8 months (ends December 30, 2004).
- Taylor, S.J.** and C.A. Phillips. 2004. Population estimates and age class structure of *Plethodon* sp. (Plethodontidae) salamanders at Fort Hood, Texas. Agency: U. S. Army Engineer Research and Development Center, Champaign, Illinois. **\$97,008** for 20 months (ends September 30, 2005).
- Taylor, S.J.** 2003. Cave Fauna Survey and Monitoring at Fort Leonard Wood, Missouri. Agency: Illinois State Museum Society. **\$94,949** (ends April 30, 2005 [extended to 31 March 2007]).
- Taylor, S.J.**, K.C. Hackley and J.K. Krejca. 2003. Examining the role of cave crickets (Rhaphidophoridae) in cave ecosystems: Preliminary studies of isotope ratios ($\delta^{13}\text{C}$, $\delta^{15}\text{N}$) and radio tracking. Agency: U. S. Army Engineer Research and Development Center, Champaign, Illinois. **\$80,847** for 1 year (ends September 30, 2004).
- Panno, S.V., K.C. Hackley, W.R. Kelly, **S.J. Taylor** and H.H. Hwang. 2003. Differences in water quality between the upper & lower reaches of Illinois Caverns: Potential effects on populations of *Gammarus acherondytes*. Illinois Department of Natural Resources. **\$17,000** for 1.75 years.
- Taylor, S.J.** and F.M. Wilhelm. 2003. Establishing baseline data on seasonal physiological requirements for *Gammarus acherondytes* and *Gammarus troglophilus* in relation to microbial oxygen demand: Supplemental funds supporting current research. Agency: Division of Natural Heritage, Illinois Department of Natural Resources. **\$5,000** for January - June 30, 2003 (Total award beginning in 2000: \$20,912).
- Taylor, S.J.** 2002. A biological survey and monitoring protocol for thirteen caves at Fort Leonard Wood, Missouri. Agency: Illinois State Museum Society. **\$25,846** for 7 months. January 1, 2003 to July 30, 2003.
- Taylor, S.J.** and J.K. Krejca. 2002. A Biological Inventory of Eight Caves in Great Basin National Park. Agency: Great Basin National Park, National Park Service, Baker, Nevada. **\$15,147** for 8 months. January 2, 2003 to September 30, 2003.
- Taylor, S.J.** 2002. A survey of Red Imported Fire Ant (*Solenopsis invicta*) distribution and abundance at Fort Hood, Texas. Agency: U. S. Army Engineer Research and Development

Center, Champaign, Illinois. **\$28,793** for 10 months. December 21, 2002 – September 30, 2003.

Taylor, S.J. 2001. Investigation of Red Imported Fire Ant (*Solenopsis invicta*) impacts to the ecology at Ft. Hood, Texas. Agency: U. S. Army Engineer Research and Development Center, Champaign, Illinois. **\$292,643**. November 21, 2001 - September 30, 2003.

This project had three components:

Investigation of the potential for Red Imported Fire Ant (*Solenopsis invicta*) impacts on rare karst invertebrates at Fort Hood, Texas: a field study. Taylor, S.J.. **\$222,081**. December 10, 2001 - September 30, 2003.

A survey of *Plethodon* sp. (Plethodontidae) salamander populations in caves and sinkholes at Fort Hood, Texas. Taylor, S.J. and C.A. Phillips. **\$39,069**. February 21, 2002 - September 30, 2002.

Red Imported Fire Ant (*Solenopsis invicta*) predation in nests of endangered birds at Fort Hood, Texas. Taylor, S.J. and C.J. Whelan. **\$31,492**. December 21, 2001 - December 30, 2002.

Taylor, S.J. 2001. Investigation of the potential for Red Imported Fire Ant (*Solenopsis invicta*) impacts on rare or endangered karst invertebrates at Fort Hood, Texas: Literature survey and study design. Agency: U. S. Army Engineer Research and Development Center, Champaign, Illinois. **\$43,167** for 4 months.

Taylor, S.J. and G.L. Adams. 2000. Establishing baseline data on seasonal physiological requirements for *Gammarus acherondytes* and *Gammarus troglophilus* in relation to microbial oxygen demand. Agency: Division of Natural Heritage, Illinois Department of Natural Resources. **\$15,912** for 1.7 years (2000-2001). Extended through June 30, 2003.

Toomey, R.S., **S.J. Taylor**, D. Tecic, D.S. Newman, and C. Hespen. 2000. Monitoring patterns of visitor usage of four important caves in Monroe and St. Clair counties. Agency: Illinois Department of Natural Resources, Sinkhole Plain Ecosystem Partnership (C2000). **\$7,043** for 1 year (2000-2001). [grant was awarded, but lead PI moved out of state - the work will not be completed, and funds have been returned to granting agency]

Taylor, S.J. and Donald W. Webb. 1998. Subterranean Amphipoda (Crustacea) of Illinois' Salem Plateau: Spatial and Temporal Components of Microdistribution. Agency: Illinois Department of Natural Resources, Sinkhole Plain Ecosystem Partnership (C2000). **\$14,452** for 1.5 years.

Taylor, S.J., D.W. Webb and S.V. Panno. 1998. Spatial and temporal analyses of the bacterial fauna and water, sediment, and amphipod tissue chemistry within the range of *Gammarus acherondytes*. Agency: Division of Natural Heritage, Illinois Department of Natural Resources. **\$55,453** for 1.75 years.

Taylor, S.J. 1998. Inventory of the Water Striders of the lower Illinois River basin. Agency: Illinois Wildlife Preservation Fund, Small Project Program. **\$990** for 1 year.

Taylor, S.J. 1991. Distribution, faunal list, and keys to semiaquatic bugs of Illinois. Agency: Illinois Department of Conservation, Non-Game Checkoff Fund. **\$982**.

INTERNAL FUNDING:

Taylor, S.J. 2019. Ecoacoustics across natural and built soundscapes, Summer 2019. **\$5,980** for ten weeks (4 June – 16 Aug 2018). Hevey Family Fund for Student Research, Department of Organismal Biology and Ecology, Colorado College.

Taylor, S.J. and H.K. Kondo. 2019. Ecoacoustics across natural and built soundscapes at the edge of the Colorado Rockies. Summer Faculty Student Collaborative Research Grant for Summer 2019. Colorado College, Provost's Office. **\$4500** for ten weeks (4 June – 23 Aug 2019).

Taylor, S.J. 2018. Ecoacoustics across natural and built soundscapes at the edge of the Colorado Rockies. **\$1000** for 1 year (2019). State of the Rockies regional research funding, Colorado College.

Taylor, S.J. 2018. Groundwater Biology in the Colorado Rockies, Summer 2018. **\$6,000** for ten

weeks (4 June – 10 Aug 2018). Hevey Family Fund for Student Research, Department of Organismal Biology and Ecology, Colorado College.

Taylor, S.J. and C.B. Bonwell. 2018. Groundwater Biology in the Colorado Rockies. Summer Faculty Student Collaborative Research Grant for Summer 2018. Office of the Dean, Colorado College. **\$4,500** for ten weeks (4 June – 10 Aug 2018).

Kelly, W., W. Zheng, **S.J. Taylor**, S.V. Panno. 2014. Pharmaceuticals and Personal Care Products (PPCPs) in Karst Groundwater in Southwestern Illinois. Prairie Research Institute, Collaboration Seed Fund. **\$28,318** for 12 months (1 May 2014 – 30 April 2015).

OTHER EXTERNAL CONTRACTS:

Taylor, S.J. 2017. Survey of bats in an Illinois hibernaculum. Pioneer Trail Wind Farm, LLC.

Taylor, S.J. 2016. Survey of bats in an Illinois hibernaculum. Pioneer Trail Wind Farm, LLC.

PROPOSALS SUBMITTED AND IN REVIEW:

none at this time

INVITED SEMINARS/GUEST LECTURES:

Taylor, S.J. 2017. Research in the realm of subterranean biology. Invited Seminar, Department of Organismal Biology & Ecology, Colorado College, Colorado Springs, Colorado (2 November 2017).

Taylor, S.J. 2016. Cave biology 101: Research, conservation & management in subterranean environments. Illinois Association of Community College Biologists 2016 Conference (15 October 2016, Peoria, Illinois).

Taylor, S.J. 2016. Biology in Fogelpole Cave. Clifftop NFP, Monroe County Annex (23 January 2016, Waterloo, Illinois).

Kelly, W., S.V. Panno, and **S.J. Taylor**. 2015. Groundwater quality in the Fogelpole Cave area. Clifftop NFP Seminar (17 January 2015, Waterloo, Illinois).

Taylor, S.J. 2014. Conservation value of the Seibert Tract. Clifftop NFP celebration of land purchase. (25 January 2014, Monroe County Annex, Waterloo, Illinois).

Taylor, S.J. 2013. Conservation and Cave Ecology. Illinois State Museum (11 December 2013, Springfield, Illinois).

Taylor, S.J. 2013. Illinois WNS Research. Illinois Speleological Survey (6 April 2013, Columbia, Illinois).

Taylor, S.J. 2011. Biology & Management of Texas Cave Invertebrates. The Program in Ecology, Evolution, and Conservation Biology. School of Integrative Biology, University of Illinois (21 September 2011, Champaign, Illinois).

Taylor, S.J. 2010. Cave Biology: Conservation & Management. Seminar, Illinois Natural History Survey (7 September 2010, Champaign, Illinois).

Taylor, S.J. 2006. Invertebrates in Karst Resource Management. Invited Seminar, Illinois Natural History Survey (28 November, Champaign, Illinois).

Taylor, S.J. 2006. Cave Conservation in Illinois. Invited Seminar, Biology Department, Southwestern Illinois College (17 February, Belleville, Illinois).

Taylor, S.J. 2005. Cave Crickets and Cave Communities in Central Texas. Invited seminar, Estación de Biología Tropical "Los Tuxtlas", Universidad Nacional Autónoma de México (UNAM) (11 August, San Andrés Tuxtla, Veracruz, Mexico).

Taylor, S.J. 2005. Cave Crickets and Cave Communities in Central Texas. Invited seminar, Department of Biological Sciences, Texas Tech University (6 April, Lubbock, Texas).

Taylor, S.J. 2004. Cave Crickets and Cave Communities in Central Texas. Invited seminar, Biology Department, University of Arkansas (11 November, Fayetteville, Arkansas).

Taylor, S.J. 2003. Cave Invertebrates: Biology, Conservation, and Management. Invited seminar, Department of Entomology, University of Illinois (3 February, Urbana, Illinois).

- Taylor, S.J.** 2002. Cave Invertebrates: Biology, Conservation, and Management. Invited seminar, Department of Entomology, Iowa State University (16 September, Ames, Iowa).
- Taylor, S.J.** 2001. Cave biology and human impacts on karst groundwater communities. Invited seminar, Department of Entomology, Clemson University (9 April, Clemson, South Carolina).
- Taylor, S.J.** 2001. Caves and cave biology. Guest lecture in 'Introduction to Cave Science' class, Zahniser Institute for Environmental Studies, Greenville College (10 January, Greenville, Illinois).
- Taylor, S.J.** 2000. Caves, Critters, and Contamination. Invited seminar, Zoology Department, Southern Illinois University at Carbondale (March 9, Carbondale, Illinois).

PRESENTATIONS:

- Kondo, H.K. (presenter), N.G. Elabdeia, J.N. McDonald, & **S.J. Taylor**. 2019. Ecoacoustic soundscapes in Colorado Springs. Summer Faculty-Student Collaborative Research (SCoRe) Symposium, 27 September 2019. Colorado College, Colorado Springs, Colorado. DOI: <https://doi.org/10.13140/RG.2.2.14619.21282>
- Elabdeia, N.G. (presenter), H.K. Kondo, & **S.J. Taylor**. 2019. Urban bat activity in Colorado Springs. Summer Faculty-Student Collaborative Research (SCoRe) Symposium, 27 September 2019. Colorado College, Colorado Springs, Colorado. DOI: <https://doi.org/10.13140/RG.2.2.22168.96002>
- Bonwell, C.B. (presenter), J.N. McDonald, and **S.J. Taylor**. 2019. Distribution and composition of hyporheic fauna across the Colorado Rockies. Poster presentation. Colorado Springs Undergraduate Research Forum (CSURF). Colorado College, Pikes Peak Community College, University of Colorado Colorado Springs, United States Air Force Academy, 6 April 2019, Colorado Springs, Colorado. DOI: <https://doi.org/10.13140/RG.2.2.15894.40005>
- Bonwell, C.B., J.N. McDonald, and **S.J. Taylor** (presenter). 2019. Distribution and composition of hyporheic fauna across the Colorado Rockies. Poster presentation. Organismal Biology & Ecology Day 2019, Colorado College, 8 March 2019, Colorado Springs, Colorado.
- Cinel, S.D. (presenter), A.Y. Kawahara, and **S.J. Taylor**. 2019. Transcriptomic signals of cellular stress in fall armyworm (*Spodoptera frugiperda*; Lepidoptera: Noctuidae) brain tissue after prolonged auditory exposure to bat calls. Society for Integrative and Comparative Biology 2019 meeting. 3–7 January 2019, Tampa, Florida.
- Katz, A.D. (presenter), **S.J. Taylor**, and M.A. Davis. 2018. Comparative phylogeography of two cavernicolous springtails (Collembola) codistributed across a geologically complex karst landscape. 24th International Conference on Subterranean Biology, University of Aveiro, Portugal. 20–24 August 2018.
- Krejca J.K. (presenter) and **S.J. Taylor**. 2018. Cave biology studies and photography in the National Parks. California Cave Life Symposium, California Academy of Sciences, San Francisco. April 28, 2018
- Katz, A. (presenter) and **S.J. Taylor**. 2017. Cave springtail (Collembola) phylogeography across the Mississippi River Valley. Oral Presentation 0586 (Monday, 6 Nov 2017). Annual Meeting of the Entomological Society of America. November 5-8, 2017. Denver, Colorado.
- Swanson, D.R. (presenter), A. Katz, S.W. Heads and **S.J. Taylor**. 2017. A re-examination of the divergence dates of Reduvidioidea (Heteroptera) in light of new fossil data. Poster Presentation D3161 (Monday, 6 Nov 2017). Annual Meeting of the Entomological Society of America. November 5-8, 2017. Denver, Colorado.
- Safford, M.M. (presenter), A. Harmon-Threatt, and **S.J. Taylor**. 2017. Impact of bat predation and habitat structure on moth community composition. Poster Presentation D3178 (Monday, 6 Nov 2017), Annual Meeting of the Entomological Society of America. November 5-8, 2017. Denver, Colorado.
- Hohoff, T.C., M.M. Safford (presenter), A.B. Cable, J.A. Kath, A.M. Holtrop, J.L. Deppe, and **S.J. Taylor**. 2017. Research, monitoring, and outreach in the Illinois Bat Conservation

- Program's first year. Illinois Chapter of the Wildlife Society, Annual Meeting. Western Illinois University, Macomb, Illinois (11–13 April 2017).
- Hohoff, T.C. (presenter), M.M. Safford, A.B. Cable, J.A. Kath, A.M. Holtrop, J.L. Deppe, and **S.J. Taylor**. 2017. Research, monitoring, and outreach in the Illinois Bat Conservation Program's first year. Poster presentation. Midwest Bat Working Group, Annual Meeting. Madison, Wisconsin (6–7 April 2017).
- Safford, M.M. (presenter), **S.J. Taylor**, and T.C. Hohoff. 2017. Moth community response to bat predation and habitat characteristics. Poster presentation. Midwest Bat Working Group, Annual Meeting. Madison, Wisconsin (6–7 April 2017).
- Raudabaugh, D.B., **S.J. Taylor**, A.C. Yannarell, E.J. Heske, J.F. Merritt, N. Mateus-Pinilla, Nohra, E. Bach, A.L. Kuhn, A.N. Miller. 2016. Fungal diversity of Illinois caves. Mycological Society of America. Berkeley, California, August 7-11, 2016.
- Elliott, W.R., J.R. Reddell, D.C. Rudolph, G.O. Graening, , T.S. Briggs, D. Ubick, R.L. Aalbu, J.K. Krejca, **S.J. Taylor**. 2016. Biogeography of Subterranean California. Poster Presentation. 23rd International Congress of Subterranean Biology, Fayetteville, Arkansas (June 13-17, 2016).
- Baena-Bejarano, N., S.W. Heads, and **S.J. Taylor**. 2016. Mud Crickets and Pygmy Mole Crickets (Orthoptera: Caelifera: Tridactyloidea) from Belize. Poster #117511. 71st Annual Meeting of the North Central Branch of the Entomological Society of America, Cleveland, Ohio (June 5-8, 2016)
- Niemiller, M.L. (presenter) and **S.J. Taylor**. 2015. Genus-wide assessment of *Bactrurus* (Amphipoda: Crangonyctidae) informs conservation and management of groundwater habitats. National Cave & Karst Management Symposium, Cave City, Kentucky (19-23 October 2015).
- Niemiller, M.L. (presenter), K.S. Zigler, C.D.R. Stephen, E.T. Carter, A.T. Paterson, **S.J. Taylor**, D.B. Fenolio, K.D. Kendall, A. Summers Engel. 2015. Updated invertebrate and vertebrate cave fauna records for eastern Tennessee Appalachian Valley and Ridge. National Speleological Society, Biospeleology Section, Waynesville, Missouri (13–17 July 2015).
- Taylor, S.J.** (presenter), M. L. Niemiller, E.J. Heske, J.M. Merritt, R.D. McClanahan, J.A. Kath, A.N. Miller, A.C. Yannarell, N. Mateus-Pinilla, Kate Langwig, & J.R. Hoyt. 2015. Winter bat population trends in Illinois, USA. National Speleological Society, Biospeleology Section, Waynesville, Missouri (13–17 July 2015).
- Kelly, W.R. (presenter), **S.J. Taylor**, S.V. Panno and W. Zheng. 2015. PPCPs, bacteria, and other contaminants in karst springs and caves in southwestern Illinois. Oral Presentation. The Geological Society of America, North-Central Section - 49th Annual Meeting, Madison, Wisconsin (19–20 May 2015).
- Raudabaugh, D. (presenter), A.N. Miller, **S.J. Taylor**, E.J. Heske, J.F. Merritt, A.C. Yannarell, N.E. Mateus-Pinilla, J.F. Merritt. 2015. Trans, trans-farnesol from *Candida albicans* can kill or inhibit *Pseudogymnoascus destructans*. Poster Presentation. Mycological Section, Botany 2015 and The Botanical Society of America. July 25 - 29, 2015 Edmonton, Alberta, Canada.
- Niemiller, M.L. (presenter) and **S.J. Taylor**. 2015. The subterranean fauna of karst regions in Illinois: A review. Oral Presentation. 51st Illinois Chapter of the Wildlife Society Annual Meeting, Champaign Illinois (12–14 April 2015).
- Raudabaugh, D.B., A.N. Miller, **S.J. Taylor**, E.J. Heske, J.M. Merritt (presenter), A.C. Yannarell, and N. Mateus-Pinilla. 2015. Trans, trans-farnesol from *Candida albicans* can kill or inhibit *Pseudogymnoascus destructans*. Poster presentation. North American Joint Bat Working Group Meeting, St. Louis, Missouri (3–6 March 2015).
- Yannarell, A.C., Y. Lou, E.J. Heske (presenter), A.N. Miller, J.F. Merritt, N. Mateus-Pinilla, and **S.J. Taylor**. 2015. *Pseudogymnoascus destructans* and the composition of microbial communities in the soils of Illinois bat hibernacula. Poster presentation. North American Joint Bat Working Group Meeting, St. Louis, Missouri (3–6 March 2015).

- Swanson, D.R., S.W. Heads, **S.J. Taylor** and J.E. McPherson. 2014. A new remarkably-preserved fossil assassin bug (Heteroptera: Reduviidae) from the Green River Formation of Colorado. Poster presentation. Entomological Society of America 2014 Annual Meeting, Portland, Oregon (15–19 November 2014).
- Taylor, S.J.** 2014. Illinois' Subterranean Ecosystems. Oral Presentation. Science in Support of Management Brown Bag Seminar Series, Illinois Department of Natural Resources, Springfield, IL (12 November 2014).
- Taylor, S.J.** (presenter), A.D. Yanahan, S.W. Heads, F.N. Soto-Adames, J.R. Wiker, D.R. Swanson, J.N. Zahniser, & C.S. Bundy. 2014. A bioinventory of select terrestrial insects at Braidwood Dunes and Savanna Nature Preserve (Will County, Illinois). Oral Presentation. Forest Preserve District of Will County, Joliet, IL (23 October 2014).
- Cinel, S.D. (presenter) and **S.J. Taylor**. 2014. Epikarstic groundwater ecosystems of Illinois: a sensitive but unstudied faunal element. Poster presentation. Illinois Water 2014 conference. University of Illinois, Urbana, Illinois (14–15 October 2014).
- Addison, A. (presenter), T. Toulkeridis, **S.J. Taylor** and B. Osburn. 2014. Túneles de Lava, Gálpagos Islands, Ecuador. Oral presentation. El Paamul Grotto de la National Speleological Society and Círculo Espeleológico del Mayab at the Instituto Tepeyac Campus Xcaret, Playa del Carmen, Quintana Roo, Mexico (22 August 2014).
- Taylor, S.J.** 2014. Cave Biology. Hickory Knolls Discovery Center, Forest Preserve District of Kane County, St. Charles, IL (14 June 2014).
- Taylor, S.J.** (presenter), W.R. Kelly, S.V. Panno, R. Weck, W. Zheng, Y. Zhang, W.-T. Liu. 2014. Karst groundwater contaminants in western Illinois: comparison of current conditions with historical data. National Great Rivers Research and Education Center, Confluence Field Station, East Alton, IL (11 June 2014).
- Taylor, S.J.** and C. Daubach. 2014. A proposal to dedicate Paul Wightman Subterranean Nature Preserve. 217th meeting of the Illinois Nature Preserves Commission. Channahon, Illinois (6 May 2014).
- Merritt, J.F. (presenter), **S.J. Taylor**, E.J. Heske, J.A. Kath, R.D. McClanahan, A.N. Miller, D.B. Raudabaugh, A. Stern, N. Mateus- Pinilla, A.C. Yannarell, J. Foster and W. Frick. 2014. Detection of WNS during initial invasion: agreement among survey methods. Poster presentation. 6th Annual Meeting of the Midwest Bat Working Group, Indiana State University (3–4 April 2014).
- Taylor, S.J.** (presenter), T. Toulkeridis, A. Addison, J. Jacoby, R. Toomey, M. Sutton and G. Hoese. 2014. Animal life in lava tubes of the Galápagos Islands. Oral presentation, 16th International Symposium on Vulcanospeleology. Galapagos, Ecuador (16–20 March 2014).
- Addison, A. (presenter), T. Toulkeridis, **S.J. Taylor**, and B. Osburn. 2014. Recent Investigations in the Galápagos islands, Ecuador. Oral presentation, 16th International Symposium on Vulcanospeleology. Galapagos, Ecuador (16–20 March 2014).
- Yanahan, A.D. (presenter) and **S.J. Taylor**. 2013. Vegetative communities as indicators of ground beetle (Coleoptera: Carabidae) diversity. Oral presentation. Entomological Society of America, 61st Annual Meeting, Austin, Texas (10–13 November 2013).
- Baker, G.M. (presenter), **S.J. Taylor**, S. Thomas, R. Olson, K. Lavoie, M. Denn, S.C. Thomas, H. Barton, K.L. Helf, R. Ohms, J. Despain, J. Kennedy, and D. Larson. 2013. National Park Service Cave Ecology Inventory and Monitoring Framework. 20th National Cave and Karst Management Symposium (4–8 November 2013, Carlsbad, New Mexico).
- Taylor, S.J.** (presenter) and F.N. Soto-Adames. 2013. Springtails in caves of the Salem Plateau (Monroe and Saint Clair counties, Illinois). National Speleological Society Convention, Shippensburg, Pennsylvania (5–9 August 2013).
- Addison, A. (presenter), T. Toulkeridis, **S.J. Taylor**, G. Osburn, G. Hoese, and V. Delgado. 2013. Recent investigations in the Gálpagos Islands, Ecuador. Oral presentation. 16th International Congress of Speleology, Brno, Czech Republic (21–28 July 2013).

- Taylor, S.J.**, J.A. Kath, E.J. Heske (presenter), R.D. McClanahan, A.N. Miller, A. Stern, N. Mateus-Pinilla, A.C. Yannarell, D.B. Raudabaugh, and H.M. Lin. 2013. White-Nose Syndrome Confirmed in Illinois. Poster presentation. Annual Meeting of the Illinois Chapter of The Wildlife Society, 14–16 April 2013, in Peoria, Illinois.
- Merritt, J.F. (presenter), J.A. Kath, **S.J. Taylor**, E.J. Heske, R.D. McClanahan, A.N. Miller, A. Stern, N. Mateus-Pinilla, A.C. Yannarell, D.B. Raudabaugh and H.-M. Lin. 2013. White-Nose Syndrome Research in Illinois. Poster presentation. 5th Annual Meeting of the Midwest Bat Working Group, Ball State University, 4–5 April 2013, Muncie, IN.
- Yanahan, A.D. (presenter), **S.J. Taylor**. 2012. Ground beetle (Coleoptera: Carabidae) communities of an Illinois sand savanna and sand prairie mosaic. Annual meeting of the Entomological Society of America, 11–14 November 2012, Knoxville, TN.
- Toulkeridis, T., A. (presenter), Addison, G.R. Osburn, G. Hoese, A. Beveridge, R. Haley, **S.J. Taylor**, P. Ramon, M. Ramon, & R.S. Toomey, III. 2012. The anatomy of oceanic volcanic vents based on volcanospeleology in the Galápagos. 1st Anniversary International Conference Commemorating the 2011-2012 El Hierro Submarine Eruption. Makavol 2012, El Hierro, Canary Islands, Spain – (Poster #51, Abstract Volume: 53).
- Heske, E.J. (presenter), J.F. Merritt, **S.J. Taylor**, J.A. Kath, A.N. Miller, A.C. Yannarell, N. Mateus-Pinilla, V.P. Hustad, H.M. Lin, and R.D. McClanahan. 2012. Invasion of Illinois bat hibernacula by *Geomyces destructans*. Poster Presentation. 2012 Prairie Lightning Mini Symposium (20 September 2012, Urbana, Illinois).
- Hoese, G.B. (presenter), S.W. Heads, J.K. Krejca, J. Jacoby, A.E. Beveridge, K.D. Hager, M.E. Slay, C.M. Slay and **S.J. Taylor**. 2012. 2011-2012 Biospeleological Expeditions to the Toledo District, Belize. International Exploration Session, National Speleological Society Convention. (25-29 June 2012, Lewisburg, West Virginia).
- Heske, E.J., J.F. Merritt, **S.J. Taylor**, J.A. Kath, A.N. Miller, A.C. Yannarell, N. Mateus-Pinilla, V.P. Hustad, H.M. Lin, and R.D. McClanahan. 2012. Invasion of Illinois bat hibernacula by *Geomyces destructans*. Poster Presentation. 5th Annual White-Nose Syndrome Symposium (4-7 June 2012, Madison, Wisconsin).
- Singh, K. (presenter), N. Mateus-Pinilla, Z. Demeter, C. Maddox, A.N. Miller, J.A. Kath, J.F. Merritt, E.J. Heske, **S.J. Taylor**, A.C. Yannarell. 2012. Histology and fungal microscopic morphology in 4 Illinois bats. Poster Presentation. 2012 Annual Meeting, Illinois Chapter of The Wildlife Society. (15-17 April 2012, Makanda, Illinois).
- Merritt, J.F., J.A. Kath, E.J. Heske (presenter), A.N. Miller, A.C. Yannarell, N. Mateus-Pinilla, V.P. Hustad, H.M. Lin, R.D. McClanahan, and **S.J. Taylor**. 2012. Current status of White-nose Syndrome research at Illinois bat hibernacula. Poster Presentation. 2012 Annual Meeting, Illinois Chapter of The Wildlife Society. (15-17 April 2012, Makanda, Illinois).
- Merritt, J.F. (presenter), J.A. Kath, E.J. Heske, A.N. Miller, A.C. Yannarell, N. Mateus-Pinilla, V.P. Hustad, H.M. Lin, R.D. McClanahan, and **S.J. Taylor**. 2012. Current status of White-nose Syndrome research at Illinois bat hibernacula. Poster Presentation. 2012 Midwest Bat Working Group Meeting. (5-6 April 2012, Terra Haute, Indiana).
- Taylor, S.J.** 2011. Cave life: fragile ecosystems sensitive to change. Prairie Lightning Symposium (16-17 November 2011, Prairie Research Institute, University of Illinois, Champaign, Illinois).
- Soto-Adames, F.N. (presenter) and **S.J. Taylor**. 2011. Status assessment survey for springtails (Collembola) in Illinois caves: The Salem Plateau. Poster Presentation. Prairie Lightning Symposium (16-17 November 2011, Prairie Research Institute, University of Illinois, Champaign, Illinois).
- Taylor, S.J.** (presenter), R.G. Weck, M.R. Douglas, J.S. Tiemann, and C.A. Phillips. 2011. Population monitoring of Illinois' state endangered Enigmatic Cavesnail (Hydrobiidae). National Cave and Karst Management Symposium 2011 (3-7 October, Midway, Utah).

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- Wetzel, M.J., **S.J. Taylor**, C.A. Taylor, J.S. Tiemann, and K.S. Cummings. 2011. A limited assessment of aquatic resources (fishes, unionid mussels, other aquatic macroinvertebrates, and water quality) associated with streams in the IDOT Bloomington East Side Highway project area, McLean County, Illinois. INHS Technical Report 2011 (42): 1–71.
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- Smith, J.E., **S.J. Taylor** and C.W. Whelan. 2002. Red Imported Fire Ant (*Solenopsis invicta*) depredation of Black-capped Vireo (*Vireo atricapillus*) nests at Fort Hood, Texas. Illinois Natural History Survey, Center for Biodiversity Technical Report 2002(24): 1–59 + CD. <http://hdl.handle.net/2142/54899>
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- Taylor, S.J.** 2001. Investigation of the potential for Red Imported Fire Ant (*Solenopsis invicta*) impacts on rare karst invertebrates at Fort Hood, Texas: Literature survey and study design. Illinois Natural History Survey, Center For Biodiversity Technical Report 2001(12): 1–49. <http://hdl.handle.net/2142/54886>
- Taylor, S.J.**, M.J. Wetzel, R.E. DeWalt, and C.A. Taylor. 2001. An Assessment of the Aquatic Resources of Black Partridge Creek Basin, Cook and DuPage Counties, Illinois: Surveys for Fishes and Aquatic Macroinvertebrates. IDOT FAP 340 - Project No. P-91-315-86. Illinois Natural History Survey, Center for Biodiversity, Technical Report 2001(2): 1–43.
- Taylor, S.J.** and D.W. Webb. 2000. Subterranean Amphipoda (Crustacea) of Illinois' Salem Plateau: spatial and temporal components of microdistribution. Illinois Natural History Survey, Center for Biodiversity, Technical Report 2000(27): 1–62. <http://hdl.handle.net/2142/9922>
- Taylor, S.J.** and M.J. Wetzel. 2000. Investigation of the potential for the occurrence of the Illinois Cave Amphipod, *Gammarus acherondytes* (Amphipoda: Gammaridae) in the Maeystown area, Monroe County, Illinois. Illinois Natural History Survey, Center for Biodiversity, Technical Report 2000(24): 1–14.
- Taylor, S.J.**, D.W. Webb and S.V. Panno. 2000. Spatial and temporal analyses of the bacterial fauna and water, sediment, and amphipod tissue chemistry within the range of *Gammarus acherondytes*. Illinois Natural History Survey, Center for Biodiversity, Technical Report 2000(18): 1–115. <http://hdl.handle.net/2142/10195>
- Taylor, S.J.** 1999. Inventory of the water striders of the lower Illinois River basin. Illinois Natural History Survey, Center for Biodiversity, Technical Report 1999 (25): 1–27. <http://hdl.handle.net/2142/9871>
- Walaszek, S. and **S.J. Taylor**. 1999. Fort Leonard Wood cave resources survey and impact assessment. Conservation Assistance Program, US Army Construction Engineering Research Laboratory, Champaign, Illinois. (CAP Tracking Number 0898007). September 1999. 19 pages.
- Webb, D. W., **S. J. Taylor**, and J. K. Krejca. 1994. The Biological Resources of Illinois' Caves and Other Subterranean Environments. Illinois Natural History Survey, Center for Biodiversity, Technical Report 1993(8): 1–168. <http://hdl.handle.net/2142/10523>
- Taylor, S.J.** 1991. Species list, distribution and keys to the Gerromorpha (Insecta: Heteroptera) of Illinois. Illinois Department of Conservation, Nongame Checkoff Fund. August 1991. 33 pages.

PROPOSALS (not funded):

- Katz, A.D., J.F. Baichtal, M.L. Niemiller, M.E. Slay, and **S.J. Taylor**. 2020. Discovering the unknown: Exploring patterns of cave invertebrate biodiversity in Tongass National Forest, Alaska. National Geographic Society. **\$47,955** for 1 year (1 June 2020 – 31 May 2021).

- Taylor, S.J.** 2018. Evaluation of an economical approach to monitoring habitat utilization and ecological interaction with urban environments on the eastern front of the Colorado Rockies. Agency: U.S. Fish & Wildlife Service (Administered by The Wildlife Institute). **\$11,741** for 11 months. February 1, 2019 - December 31, 2019.
- Soucek, D.J. and **S.J. Taylor**. 2014. Cave-adapted amphipods and climate change: species responses to increasing temperatures. Pre-proposal. Illinois Department of Natural Resources, State Wildlife Grant, **\$86,064** (2 years).
- Taylor, S.J.**, M.L. Niemiller and M.L. Porter. 2014. Environmental DNA for monitoring and detection of rare and endangered subterranean amphipods in southwestern Illinois. Pre-proposal. Illinois Department of Natural Resources, State Wildlife Grant, **\$33,031** (2 years).
- Taylor, S.J.**, D.J. Soucek & B. Weck. 2014. A snail tale: contaminant impacts on shallow groundwater ecosystems. National Great Rivers Research & Education Center, Summer 2015 Undergraduate Internship Program. **\$5,420** (2 months).
- Yannarell, A., A.N. Miller and **S.J. Taylor**. 2014. Using microbial ecology to guide the isolation and characterization of biocontrol agents for *Pseudogymnoascus destructans*. Proposal submitted 16 April 2014 to Bat Conservation International and the Tennessee Chapter of The Nature Conservancy. **\$49,204** for two years (August 16, 2014 – August 15, 2016).
- Taylor, S.J.** 2014. Living on karst: bringing science to the people of Illinois in the physical and virtual worlds. Preproposal. University of Illinois, Extension and Outreach. **\$276,150** for two years.
- Taylor, S.J.** and A.C. Yannarell. 2013. Long Leaf Pine treatment effects on microbial communities. U.S. Army Engineer Research and Development Center (ERDC-CERL), **\$49,327** (1 May 2013 – 1 December 2014).
- Toulkeridis, T., O. Padilla, M. Cruz, A. Addison, and **S.J. Taylor**. 2011. Proyecto de Investigacion: Distribución, Espeleología, Biología, Paleontología y Cartografía de Cuevas Terrestres y Volcánicas en Eel Oriente Ecuatoriano y Galápagos. (“Research Project: Distribution, caving, biology, paleontology and mapping inland caves and volcanoes in the eastern Ecuador and Galapagos”). Departamento de Ciencias de la Tierra y la Construcción, Escuela Politecnica del Ejercito (ESPE), Ecuador. **\$51,000** for 1 year (October 2011 – September 2012).
- Taylor, S.J.**, A.C. Yannarell, A.N. Miller and J.K. Krejca. 2010. Fungal & bacterial communities in food webs supporting sixteen federally listed species: caves with & without bats. Texas Parks and Wildlife Department, **\$58,767** for 1.5 years (1 June 2011 – 20 November 2012).
- Taylor, S.J.**, A.C. Yannarell, A.N. Miller & J.K. Krejca. 2010. Natural fungal & bacterial communities in caves & on bats in central Texas: before a devastating disease. Texas Parks & Wildlife Department. **\$28,635**. (1 July 2010 - 30 June 2011).
- Taylor, S.J.**, A.C. Yannarell, A.N. Miller, E. Heske, N. Mateus-Pinilla, and J.F. Merritt. 2010. Monitoring Illinois bat populations for white-nose syndrome. Illinois Department of Natural Resources, **\$425,000** over 3 years. Submitted 2 April 2010. [preproposal, not selected for funding]
- Taylor, S.J.** 2006. Terrestrial Insect Survey at Camp Atterbury, Indiana. Agency: U. S. Army Engineer Research and Development Center, Champaign, Illinois. **\$61,150** for 2 years.
- Taylor, S.J.**, F.M. Wilhelm, and J.K. Krejca. 2006. Assessing Energetic Contribution of Cave Crickets (Orthoptera: Rhaphidophoridae: *Ceuthophilus* spp.) to Cave Communities in Central Texas. Agency: Texas Parks & Wildlife Department. **\$18,525** for 2 years.
- Taylor, S.J.**, J. Kathirithamby, C. Tipping, and R.F. Mizell, III. 2005. Twisted-wing parasites (Insecta: Strepsiptera: Halictophagidae): Potential biocontrol agents of the Glassy-winged Sharpshooter. Agency: California Department of Food and Agriculture. **\$62,432** for 1 year.
- Panno, S.V., **S.J. Taylor** and C.P. Weibel. 2000. An evaluation of the quality of groundwater entering and flowing through Illinois Caverns at the Illinois Caverns State Natural Area: Phase I. Agency: Illinois Department of Natural Resources, Office of Scientific Research and Analysis. **\$37,308** for 1 year.
- Taylor, S.J.** and D.W. Webb. 1998. Subterranean Amphipoda (Crustacea) of Illinois' Salem Plateau: Spatial and Temporal Components of Microdistribution. Agency: Illinois Wildlife

Preservation Fund **\$19,852** for 1.5 years.

Taylor, S.J. and D.W. Webb. 1997. The endangered Illinois Cave Amphipod, life history and population dynamics and their implications for land use management. Agency: Illinois Department of Natural Resources, State Habitat Stamp Committee. **\$17,433.**

Burr, B.M., **S.J. Taylor**, S.J. and J.K. Krejca. 1993. An index of biological integrity as a tool for monitoring hazardous waste impacts on karst aquifers. Agency: Illinois Department of Energy and Natural Resources, Hazardous Waste Research and Information Center. **\$66,550.**

Burr, B.M. and **S.J. Taylor**. 1993. Faunal inventory of subterranean streams and development of a cave aquatic biological monitoring program. Agency: Division of Science and Resources Management, Mammoth Cave National Park, National Park Service. **\$88,808.**

Taylor, S.J. 1992. Can isozyme electrophoresis clarify phylogenetic relationships among semiaquatic bugs in the superfamily Gerroidea (Insecta: Heteroptera: Gerromorpha)? Agency: Sigma Xi. \$606.

PROFESSIONAL ACTIVITIES:

Professional Society Membership (most no longer current):

Western Bat Working Group
North Carolina Bat Working Group
Colorado Bat Working Group
Midwest Bat Working Group
Entomological Society of America
American Entomological Society
Florida Entomological Society
Michigan Entomological Society
Natural Areas Association
New York Entomological Society
National Speleological Society (29460RL,FE), Biospeleology Section
International Heteropterists' Society
International Society of Subterranean Biology
The Xerces Society for Invertebrate Conservation
Stygobromus Working Group
The Lepidopterists' Society

Professional Society Service:

- Editorial Board, *Revista de Ciencias de Seguridad y Defensa*, Ecuador (October 2017 – March 2019)
- Editorial Board, *Speleobiology Notes* (October 2008 – March 2019)
- Editorial Board member, *Il Naturalista Campano*, Museo Naturalistico degli Alburni, Corleto Monforte, Campania, (November 2007 – March 2019)
- Taxonomic Expert, Hemiptera for the Taxonomic Certification Program of the Society for Freshwater Science (formerly: North American Benthological Society) (December 2004 – December 2009, November 2010 – March 2019)
- Associate Editor for Life Sciences for the *Journal of Cave and Karst Studies* (February 2000 – June 2004)
- Editor, *North American Biospeleology Newsletter*, Biospeleology Section of the National Speleological Society (June 2002 – 2004)
- Executive Secretary, Biospeleology Section of the National Speleological Society (July 1999 – July 2000)

Manuscript Reviews:

Annals of the Entomological Society of America, Aquatic Insects, Biological Journal of the Linnean Society, Ecography, Ecological Indicators, Ecology, Ecology of Freshwater Fish,

Entomological News, Environmental Entomology, European Journal of Entomology, The Florida Entomologist, Geology, Global Change Biology, Great Lakes Entomologist, Herpetological Review, Frontiers of Biogeography, Insect Science, International Journal of Speleology, Journal of the Arkansas Academy of Science, Journal of Cave and Karst Studies, Journal of Natural History, Journal of Insect Behavior, Journal of Insect Science, Marine and Freshwater Research, Munis Entomology & Zoology, Occasional Papers of the Museum-Texas Tech University, PLOS One, Proceedings of the Academy of Natural Sciences of Philadelphia, Proceedings of the Entomological Society of Washington, The Southwestern Naturalist, Speleobiology Notes, Zoological Journal of the Linnaean Society, Zookeys, Zootaxa; book chapter reviews for National Speleological Society.

Other Reviews:

Internal manuscript reviews for the Illinois Natural History Survey and Illinois State Geological Survey; proposal reviews for the National Science Foundation; proposal reviews for Cave Conservancy of the Virginias, proposal reviews for the Cave Research Foundation, monitoring protocol reviews for the National Park Service; review for Catalog of Life.

Conservation and Management:

- Project Lead Scientist for science, restoration, and monitoring at the Paul Wightman Subterranean Nature Preserve, for Clifftop NFP (December 2013 – July 2017)
- Member, National Park Service Cave Ecology Inventory and Monitoring Team (November 2009 – 2017)
- Member, Endangered Species Technical Advisory Committee (ESTAC) for aquatic invertebrates (advises the Illinois Endangered Species Protection Board) (March 2017 – July 2017)
- Invertebrate ESPB Technical Expert Consultant to the Endangered Species Protection Board (ESPB TEC) for the 2014 list revision (January 2012 – 2014)
- Acting Chair, Invertebrate Endangered Species Technical Advisory Committee (advises the Illinois Endangered Species Protection Board) (2008 – 2010)
- Invited panelist, Future Directions in Karst Research (Karst Waters Institute, 3-5 May, 2007)
- Chair, Technical Subcommittee, Karst Invertebrate Recovery Team for nine Bexar County (Texas) karst invertebrates (U.S. Fish and Wildlife Service, January 2002 – June 2012)
- Reviewer, proposed rule for the listing of the Tumbling Creek Cavesnail as an Endangered Species (U.S. Fish and Wildlife Service, January 2002)
- Member, Cave Amphipod Recovery Team (U.S. Fish and Wildlife Service, March 1999 – July 2017)
- Member, Tumbling Creek Cavesnail Working Group (U.S. Fish and Wildlife Service, 2002 – July 2017)
- Member, Karst Working Group (Illinois Department of Natural Resources, 1997 – 2008)

Committee Service, University of Illinois / Illinois Natural History Survey:

- Member, PRI Accounting/Finance Business Management Clustered Services Visioning Team (December 2014 – March 2015)
- Chair, INHS 2015 Post Doc Program Search Committee (November 2014 – March 2015)
- Member, INHS Seminar Committee (June 2014 – June 2016)
- Member, VCR's Joint University of Illinois/CERL task force connecting researchers (July 2013 – April 2014)
- Chair, INHS Budget Committee (December 2010 – August 2012)
- Member, INHS Senior Management Team (October 2010 – July 2017)
- Member, INHS Budget Committee (August 2008 – November 2010)
- Chair, INHS-IDOT Committee on Data Management (December 2009 – December 2010)

- Chair, INHS-IDOT Committee on Report Development (December 2009 – December 2010)

HONORS AND AWARDS:

2015 **Clifftop NFP Volunteer of the Year** award, January 2016.

Fellow of the National Speleological Society. July 2005.

The Kudo Award for Outstanding Thesis or Dissertation, Department of Zoology, Southern Illinois University, 1996.

The Richard E. Blackwelder Award (presented for conspicuous development as a scholar, dedication to research, outstanding teaching, meritorious publication or presentation, or leadership), Department of Zoology, Southern Illinois University, Spring 1992.

Dissertation Research Award, The Graduate School, Southern Illinois University. Spring 1991, Fall 1991.

Sigma Xi, Full Member of the Southern Illinois University Chapter of the Society of Sigma Xi, 1988. (current chapter: University of Illinois)

Phi Kappa Phi, Member of the Southern Illinois University Chapter of Phi Kappa Phi.

Biology Achievement Award, Department of Biology, Texas A&M University.

Departmental Distinction, Department of Biology, Hendrix College.

MANUSCRIPTS IN PREPARATION:

None.

RESEARCH IN PROGRESS:

Taylor, S.J. Biology of Talitridae.

Taylor, S.J., Baker, G., *et al.* Ecoacoustics in caves

Baker, G., Taylor, S.J., *et al.* Long-term biomonitoring at Lehman Caves at Great Basin National Park, Nevada.

RESEARCH INTERESTS:

- Biology and taxonomy of subterranean amphipods
- Protection and management of karst resources
- Ecology, biology, and taxonomy of cave fauna
- Groundwater quality in relation to subterranean life in karst areas
- Ecoacoustics
- Survey & monitoring of bat populations
- Invertebrate biodiversity and conservation

DISSERTATION:

Habitat preferences, species assemblages, and resource partitioning by Gerromorpha (Insecta: Heteroptera) in southern Illinois, with a faunal list and keys to species of the state. Ph.D.

Dissertation in Zoology, Zoology Department, Southern Illinois University at Carbondale, Carbondale, Illinois. 1996. xviii + 345 pp.

THESIS:

Ecology, biology and coexistence of four species of Aradidae from the southeastern United States. M.S. Thesis in Zoology, Department of Biology, Texas A&M University, College Station, Texas.

1987. ix + 102 pp.

TEACHING & MENTORING:

Undergraduate Students

Colorado College

BE309 *Research Problems in Organismal Biology & Ecology* (Block 4, Fall 2018)

Student Research Advisor:

Nabeel Elabdeia (Summer 2019: Organismal Biology & Ecology, Colorado College)

Hiromi Kondo (Summer 2019: Environmental Science, Colorado College)

Carly Bonwell (Summer 2018: Environmental Science, Colorado College)

Jenna McDonald (Summer 2018, Summer 2019 [5 weeks]: Organismal Biology & Ecology, Colorado College)

Paul Stevens (2016, 2017: University of Illinois)

Graduate Students

Graduate Student Advisor:

Daniel R. Swanson (MS, PhD student, Entomology, University of Illinois)

Aron Katz (PhD, Entomology, University of Illinois)

Matthew Safford (MS, Entomology, University of Illinois)

Scott D. Cinel (MS, Entomology, University of Illinois)

Alan Yanahan (MS, Entomology, University of Illinois)

Maminirina Randrianandrasana (MS, Entomology, University of Illinois)

Justin Fuller (MS student, Entomology, University of Illinois)

Nick Dolce (MS student, Natural Resources and Environmental Science, University of Illinois)

Graduate Student Committee Member:

Maminirina Randrianandrasana (PhD, Entomology, University of Illinois)

Fay Mayer (PhD student Biological Sciences, Texas Tech University)

Sindhu Krishnankutty (PhD, Entomology, University of Illinois)

Aron Katz (MS, Entomology, University of Illinois)

Gavin Rienne (MS, Natural Resources and Environmental Science, University of Illinois)

Benjamin C Jellen (MS, Natural Resources and Environmental Science, University of Illinois)

Mike Venarsky (MS, Southern Illinois University at Carbondale)

Graduate Students who have worked in my lab:

Nathalie Baena (Entomology, University of Illinois)

Ember Chabot (Entomology, University of Illinois)

Casey Funderburk (Entomology, University of Illinois)

Tara Hohoff (Biological Sciences, Eastern Illinois University)

Aron Katz (Entomology, University of Illinois)

Jen Mui (Biology, University of Illinois)

Massimo Pessino (Entomology, University of Illinois)

Jenn Smith (Animal Biology, University of Illinois)

Mike Venarsky (Zoology, Southern Illinois University at Carbondale)

Postdoctoral Researchers

Dr. Matthew L. Niemiller (presently: University of Alabama in Huntsville, Huntsville, AL)

Dr. Jamie Zahniser (presently: USDA-APHIS, Smithsonian Institution, Washington, DC)

Dr. Karlene Ramsdell (presently: Shorewood, IL)

Classes, Workshops & Guest Lectures

Guest Lecture, University of Colorado, Colorado Springs.

The Biology of Subterranean Ecosystems. Guest Lecture, For BIOL 3700 General Ecology (Dr. Emily Mooney) Fall 2019 (20 November 2019).

Guest Lecture, Colorado College, Colorado Springs.

Bats *for*: History 104 Culture, Society and History: Animals & Humankind (Dr. Carol Neel). Fall 2019 (4 October 2019).

Guest Lecture, University of Colorado, Colorado Springs.
The Biology of Subterranean Ecosystems *for*: BIOL 3700 General Ecology (Dr. Emily Mooney). Fall 2018 (28 Nov 2018)

Bat Acoustics Workshop for IDNR Biologists
Illinois Bat Conservation Program Workshop for IDNR Biologists, Champaign, Illinois. 22 March 2017. Taught by T Hohoff, **SJ Taylor**, Matt Safford, & J Deppe.

Guest Lecture, University of Illinois at Urbana-Champaign.
PS224 National Parks of the South (Department of Political Science & an LAS Honors Course), Spring 2017

Stygobromus Species Identification Workshop.
2015. National Speleological Society (14 July 2015, Waynesville, Missouri). Lead workshop with Megan Porter, Matthew Niemiller, Chris Hobson and others.
2013. National Speleological Society (8 August 2013, Franklin Science Center, Shippensburg University, Shippensburg, Pennsylvania). Lead workshop with assistance from Michael E. Slay and Matthew Niemiller, and coordination by Megan Porter.

Insect Identification Course, Illinois Chapter of the American Fisheries Society. Taught in collaboration with R. Edward DeWalt and Don Webb. Allerton Park, Champaign County, Illinois. 25-27 August 1998

Southern Illinois University at Carbondale, Department of Zoology - Laboratory Instructor:
Natural History of the Invertebrates, Spring 1990
The Invertebrates-B, Spring 1990
Aquatic Entomology, Fall 1988, Fall 1990
Entomology, Fall 1989
Biology, Summer 1988
Diversity of Animal Life-Invertebrates, Spring 1988, Spring 1989, Spring 1990
Insect Pest Control, Fall 1987, Fall 1988, Fall 1989, Fall 1990
Introductory Zoology, Fall 1987.

Texas A&M University, Department of Biology - Laboratory Instructor:
Human Physiology, Summer 1987
Mammalian Anatomy, Summer 1987
Principles and Methods of Systematic Biology, Fall 1984
Invertebrate Ecology, Summer 1984, Spring 1985
General Biology-2nd Semester, Spring 1984, Spring 1987
General Biology-1st Semester, Fall 1983.

Hendrix College, Department of Biology - Laboratory Assistant:
Zoology, Bacteriology, and Symbiosis - 1981, 1982, 1983

Personal Life

<https://www.ceuthophilus.org/about/>