

CURRICULUM VITAE

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**PROFESSIONAL AFFILIATIONS:**

- Associate Research Professor, Colorado College (Fall 2017 – present)
- Research Associate, Zoology Department, Denver Museum of Nature & Science (January 1, 2018 – December 31, 2020)
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- 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)
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**PEER REVIEWED PUBLICATIONS:**

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

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- Taylor, S.J.** and J.K. Krejca. 1994. Geographic Distribution. *Notophthalmus viridescens louisianensis*. **Herpetological Review** 25(2): 73.
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- McPherson, J.E. and **S.J. Taylor**. 1993. Distinguishing nymphal instars of *Mesovelgia mulsanti* (Heteroptera: Mesoveliidae). **Great Lakes Entomologist** 26(3): 233–236.
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#### MISCELLANEOUS PUBLICATIONS:

- Katz, A.D., **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, 20–24 August 2018, University of Aveiro, Aveiro, Portugal. ARPHA Conference Abstracts 1: e29877 DOI: <http://dx.doi.org/10.3897/aca.1.e29877>
- Slay, M.E., M.L. Niemiller, M. Sutton, and **S.J. Taylor**. 2016. Cave Life of the Ozarks — A guide to commonly encountered species in Arkansas, Missouri, and Oklahoma. Biology Section of the National Speleological Society. 46 p. ISBN: 978-0-9893899-2-1
- DauBach, C., P. DauBach, and **S.J. Taylor**. 2015. Acquisition of the Paul Wightman Subterranean Nature Preserve. NSS News, April, 73(4): 14–16.
- Taylor, S.J.**, A.D. Yanahan, S.W. Heads, J. Wiker, F.N. Soto-Adames, D.R. Swanson, J. Zahneiser, and C.S. Bundy. 2014. Three hundred acres of terrestrial insect biodiversity. Illinois Natural History Survey Reports Reports 411: 1,8.
- Addison, A., T. Toulkeridis, **S.J. Taylor**, G. Osburn, G. Hoese, and V. Delgado. 2013. Recent investigations in the Gálapagos Islands, Ecuador. Pages 15–19 in: Filippi, M. and Bosák, P. (eds.), Proceedings of the 16th International Congress of Speleology, July 21–28, Brno. Volume

- 2, 507 pp. Czech Speleological Society, Praha, Czech Republic.
- Baker, G.M., **S.J. Taylor**, M.A. Horner, J.K. Krejca, M.E. Slay and B.M. Roberts. 2012. Biodiversity in high-elevation caves in Great Basin National Park. Page 6 *in* Stratford, V. (ed.). Proceedings of the 20th National Cave & Karst Management Symposium. 177 p.
- Soto-Adames, F.N. and **S.J. Taylor**. 2012. Status assessment survey for springtails (Collembola) in Illinois' Salem Plateau caves. Illinois Natural History Survey Reports 407: 3.
- Taylor, S.J.** 2008. A trip to Illinois' Sinkhole Plain: In which nature hints, warns, and then speaks. Pages 140–145 *in*: Jeffords, M. R., S. L. Post, and C. Warwick, eds. Biologists in the field. Illinois Natural History Survey Educational Material 02. Illinois Natural History Survey, Champaign. 224 pp.
- Taylor, S.J.**, K. Hackley, J.K. Krejca, S.E. Greenberg, and M.L. Denight. 2008. Stable isotopes ( $\delta^{13}\text{C}$ ,  $\delta^{15}\text{N}$ ) as indicators of trophic structure in central Texas (USA) cave ecosystems. Page 233 *in*: Proceedings of the 14th International Congress of Speleology, 21-28 August 2005, Athens, Kalamos, Hellas. Hellenic Speleological Society, Athens, Greece. 715 pp.
- Culver, D.C., P. Boston, M. Christman, V. Collins, J. Godwin, H. Hobbs, B. Holmes, J.R. Holsinger, T. Iliffe, J.K. Krejca, J.J. Lewis, K. O'Conner, T. Pipan, K. Schneider, **S.J. Taylor**, and M. Zigmajster. 2008. Focus group on subterranean biodiversity. Pages 98–99 *in*: Martin, J.B. and White, W.B. (eds.), *Frontiers of Karst Research*. Special Publication 13, Karst Waters Institute, Leesburg, Virginia. 118 pp.
- Taylor, S.J.** 2006. Cave bioinventory: new discoveries and ongoing research. The Midden [The Resource Management Newsletter of Great Basin National Park] 6(2):1.
- Scott, E.C., ... **S. Taylor**, et al. 2004. The morphology of Steve. *Annals of Improbable Research* 10(4):24-29.
- Taylor, S.J.** 2004. Cave adapted insects. Pages 473–476 *in* Capinera, John L. (ed.). *Encyclopedia of Entomology*. Kluwer Academic Publishers. xli + 2580 pp.
- Taylor, S.J.**, C.J. Whelan, J.E. Smith, M.L. Denight, and M. Stake. 2003. Impact of Red Imported Fire Ants on the Black-capped Vireo, an Endangered Species. Illinois Natural History Survey Reports 377:3,7.
- Taylor, S.J.** 2003. America, North: Biospeleology. Pages 45–49 *in* Gunn, John (ed.). *Encyclopedia of Cave and Karst Science*. Fitzroy Dearborn, New York. xviii + 902 pp.
- Venarsky, M.P., F.M. Wilhelm and **S.J. Taylor**. 2003. Cave amphipod respiration in southwestern Illinois. Illinois Natural History Survey Reports 375:2.
- U.S. Fish and Wildlife Service. 2002. Illinois Cave Amphipod (*Gammarus acherondytes*) Recovery Plan. U.S. Fish and Wildlife Service, Ft. Snelling, Minnesota. vi + 63 p. (Prepared for USFWS by the Illinois Cave Amphipod Recovery Team: J. Bade, **S.J. Taylor**, D.W. Webb, S.V. Panno, P. Moss, J.J. Lewis, D. Tecic, D. Brand, and K. Hartman, Jr.)
- Krejca, J.K., D.A. Hendrickson, and **S.J. Taylor**. 2000. Using *Prietella phreatophila* (Ictaluridae) and other cave organisms to follow groundwater in Texas and México. Page 42 *In*: Hendrickson, D. A. and L. T. Findley (eds.). Proceedings of the Desert Fishes Council, Volume XXXI. 1999 Annual Symposium, 18-21 November, Ciudad Victoria, Tamaulipas, México. 63 pp.
- Krejca, J.K, **S.J. Taylor**, and D.A. Hendrickson. 2000. Recent investigations of the cave fauna of northern Mexico: the Mexican Blindcat research team. *The NSS News* 58(6):165–171.
- Taylor, S.J.** and D.W. Webb. 2000. Human impacts on groundwater quality and subterranean aquatic biota in southwestern Illinois. Illinois Natural History Survey Reports No. 361:2-3.
- Taylor, S.J.** 1999. Some common animals found in Illinois Caverns. Pages 82-86 *In*: Southern Illinois Groundwater Protection Committee. Groundwater Protection Field Day Proceedings. Waterloo, Illinois. May 14, 1999. 96 pp.
- Taylor, S.J.**, and D.W. Webb. 1998. The fragile fauna of Illinois caves. *The Illinois Steward* 7(2):2–6.
- Gardner, J.E., **S.J. Taylor** and J.K. Krejca. 1992. Cave Dwellers. Illinois Natural History Survey Reports No. 318:2–3.

## EXTERNAL GRANTS & CONTRACTS:

- Taylor, S.J.** 2017. Groundwater amphipods in Colorado: a statewide survey. Cave Conservancy Foundation. **\$9,643** for two years (1 January 2018 – 31 December 2019).
- 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).
- Taylor, S.J.**, T.C. Hohoff, M.M. Safford and M.L. Niemiller. 2016. Bat Monitoring at Fermi National Accelerator Laboratory: Federal FY17. U.S. Department of Energy, Fermi National Accelerator Laboratory. **\$12,500** for 1 year (1 January 2017 – 31 December 2017).
- Niemiller, M.L. A.D. Katz, and **S.J. Taylor**. 2016. Karst invertebrate bioinventories of gypsum caves containing bat hibernacula in the Texas Panhandle region. Texas Parks & Wildlife Department. **\$11,578** for 1 year (1 January 2017 – 31 December 2017) (Awarded, but contract agreement could not be reached between funding agency and University).
- Taylor, S.J.** and J.L. Deppe. 2016. Illinois Bat Conservation Program: Summer Bat Activity, Roost Evaluations, Acoustics, eDNA, Training & Outreach. Illinois Department of Natural Resources. **\$200,000** for 1 year (1 July 2016 – 31 June 2017).
- Deppe, J.L. and **S.J. Taylor**. 2016. Illinois Bat Conservation Program: Habitat Use & Maternity Colonies. Illinois Department of Natural Resources. **\$50,000** for 1 year (1 July 2016 – 31 June 2017).
- Taylor, S.J.**, M.L. Niemiller, and J. Deppe. 2015. White Nose Syndrome in Illinois Bat Populations - FY16: Monitoring of Winter Hibernacula. Illinois Department of Natural Resources. **\$24,362** for 1.25 years (1 October 2015 – 31 December 2016).
- Taylor, S.J.** and M.L. Niemiller. 2014. White Nose Syndrome in Illinois Bat Populations: Winter Monitoring FY15. Illinois Department of Natural Resources. **\$43,112** for 1.25 years (1 October 2014 – 31 December 2015).
- Taylor, S.J.**, M.L. Niemiller and S.D. Cinel. 2014. Threats analysis and conservation actions for the Illinois Cave Amphipod: Vulnerability assessment of groundwater quality, land use and climate change impacts. Department of Natural Resources, State Wildlife Grant (SWG). **\$35,000** for two years (1 October 2014 – 30 September 2016).
- Taylor, S.J.** and S.D. Cinel. 2014. Epikarstic groundwater ecosystems in Illinois: a sensitive but unstudied faunal element. Illinois Water Resources Council. **\$7,567** for 8 months (1 May 2014 – 31 December 2014).
- Taylor, S.J.**, A.C. Yannarell, and S.W. Heads. 2014. Amendment, Southern Illinois cave ecosystems: bioinventories, microbial communities & management plans. USDA Forest Service, **\$6,000** (ending 31 May 2016)
- 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).
- Tiemann, J.S., **S.J. Taylor**, and C.A. Taylor. 2011. A one-year project to update historic (> 10 yrs old) endangered and threatened invertebrate Element Occurrence Record information for Illinois Department of Natural Resources Administrative Region 5. Illinois Department of Natural Resources, **\$9,998** for 1.33 years (1 May 2011 – 30 September 2012).
- 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).
- Taylor, S.J.** and G.A. Levin. 2007. Development of a Database of US Army Installation Floristic Inventories. U. S. Army Engineer Research and Development Center, Champaign, Illinois. **\$16,635** for 5 months (ends 30 September 2007).
- Taylor, S.J.** 2007. Development of a Bexar County Karst Invertebrate Recovery Plan (additional funds). Agency: U.S. Fish & Wildlife Service. **\$18,600** for 6 months (ends 1 July 2007).
- 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).
- Taylor, S.J.** 2005. Development of a Bexar County karst invertebrate recovery plan. Agency: U.S. Fish & Wildlife Service. **\$20,000** for 5.5 months (ends 28 April 2006).
- 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. Hesper. 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:

- 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, Galápagos 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 Galápagos 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).
- Slay, M.E. (presenter) and **S.J. Taylor**. 2011. Ongoing conservation efforts to protect the Foushee cavesnail, *Amnicola cora* (Hydrobiidae). National Cave and Karst Management Symposium 2011 (3-7 October, Midway, Utah).

- Baker, G.M. (presenter), **S.J. Taylor**, M.A. Horner, J.K. Krejca, M.E. Slay, and B.M. Roberts . 2011. Biodiversity in high-elevation caves in Great Basin National Park. National Cave and Karst Management Symposium 2011 (3-7 October, Midway, Utah).
- 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.** (presenter), M.E. Slay, G.B. Hoese, J.K. Krejca, C.M. Slay, and J. Jacoby. 2011. The cave fauna of Toledo District of Belize: a preliminary assessment. National Speleological Society Convention (18-22 July 2011, Glenwood Springs, Colorado).
- Yannarell, A.C. (presenter), R. Busby, M.L. Denight, D.L. Gebhart and **S.J. Taylor**. 2011. Differential responses of soil bacterial and fungal communities in heavily invaded stands of the invasive legume, *Lespedeza cuneata*. Poster Presentation. 111th General Meeting of the American Society for Microbiology (20-24 May 2011, New Orleans, LA).
- Soto-Adames, F.N. and **S.J. Taylor** (presenter). 2010. Status assessment survey for springtails (Collembola) in Illinois caves: The Salem Plateau. Poster Presentation. Entomological Society of America Annual Meeting (12-15 December 2010), San Diego, California. Systematics, Evolution and Biodiversity Section.
- Yannarell, A.C. (presenter), R. Busby, D.L. Gebhart, M.L. Denight, and **S.J. Taylor**. 2010. The invasive legume, *Lespedeza cuneata*, alters soil microbial communities in heavily invaded stands. American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America 2010 International Annual Meetings (31 Oct-4 Nov), Long Beach, California. Military Land Use & Management Division, General Military Land Use & Management Session. 3 November 2010.
- Barnes, J.K. (presenter), M.E. Slay, and **S.J. Taylor**. 2009. Adult Diptera from Ozark Caves. Poster Presentation: Entomological Society of America Annual Meeting. (13-16 December, 2009, Indianapolis, Indiana).
- Denight, M.L. (presenter), A. Hagar, D.L. Gebhart, **S.J. Taylor**, and R. Busby . 2009. Effects of plant growth regulators on invasive species. Poster presentation. Session: Invasive Species in the Landscape. 2009 International Annual Meetings ASA-CSSA-SSSA (1-5 November 2009, Pittsburgh, PA).
- Gebhart, D.L. (presenter), A.C. Yannarell, R. Busby, M.L. Denight, C. Arnett, and **S.J. Taylor**. 2009. Divergence of rhizobia and mycorrhizae from native and introduced *Lespedeza* species. Poster presentation. Session: Invasive Species in the Landscape. 2009 International Annual Meetings ASA-CSSA-SSSA (1-5 November 2009, Pittsburgh, PA).
- Taylor, S.J.** (presenter), J.K. Krejca, and M.E. Slay. 2009. Spatial and Temporal Distribution of Terrestrial Macroinvertebrates in Lehman Caves, a Tourist Cave in Great Basin National Park, Nevada, USA. Poster Presentation. 15th International Congress of Speleology (19-26 July, Kerrville, Texas).
- Taylor, S.J.** (presenter), J.K. Krejca, and K.C. Hackley. 2008. Urban and rural cave invertebrate communities: Isotopic evaluation of trophic structure ( $\delta^{13}\text{C}$ ,  $\delta^{15}\text{N}$ ) & the relationship between taxa richness and cover types in central Texas, U.S.A. 19th International Symposium of Subterranean Biology (21-26 September, Freemantle, Australia).
- Taylor, S.J.** (presenter) and R.L. Lampman. 2008. Overwintering mosquitoes in Illinois stormwater tunnels & caves. Poster presentation, The 100th Annual Meeting Illinois State Academy of Science (4-5 April, Champaign, Illinois).
- Tinerella, P.P. (presenter) and **S.J. Taylor** (presenter). 2008. From Days of Oar: Preliminary Results of a Survey of the Water Bugs of Illinois (Insecta: Heteroptera: Nepomorpha). Poster presentation, The 100th Annual Meeting Illinois State Academy of Science (4-5 April, Champaign, Illinois).
- Randrianandrasana, M. (presenter) and **S.J. Taylor**. 2007. Feeding habits of immature stages of *Isoperla nana* (Insecta: Plecoptera: Perlodidae) in Jordan Creek (Vermilion County,

- Illinois). Poster presentation, 55th Annual Meeting of the Entomological Society of America (9-12 December, San Diego, California).
- Taylor, S.J.**, C.A. Phillips, J.K. Krejca (presenter), and M.J. Dreslik. 2007. Population estimates and age class structure of the salamander *Plethodon albagula* (Plethodontidae) at Fort Hood, Texas. Texas Herpetological Society, Fall 2007 Symposium (3 November, The University of Texas at Austin, Austin, Texas).
- Taylor, S.J.** (presenter), J.K. Krejca, and M.E. Slay. 2007. Preliminary results of a cave bioinventory at Great Basin National Park. Special Session on Cave Research in the Western United States, Ninth Biennial Conference of Research on the Colorado Plateau, (29 October-1 November, Northern Arizona University, Flagstaff, Arizona).
- Taylor, S.J.** (presenter), J.K. Krejca, and J. Jacoby. 2007. Assessing biological resources of caves in Lava Beds National Monument, California. Special Session on Cave Research in the Western United States, Ninth Biennial Conference of Research on the Colorado Plateau, (29 October-1 November, Northern Arizona University, Flagstaff, Arizona).
- Slay, M.E. (presenter) and **S.J. Taylor**. 2007. Preliminary results on habitat use and density of the Foushee cavesnail, *Amnicola cora* (Hydrobiidae). Poster presentation. National Cave and Karst Management Symposium (8-12 October, St. Louis, Missouri).
- Taylor, S.J.** (presenter), J.K. Krejca, and J. Jacoby. 2006. A biological assessment of caves in Lava Beds National Monument, California. National Speleological Society Convention (August 11, Bellingham, Washington).
- Slay, M.E. (presenter), **S.J. Taylor**, S.R. Ahler, and W.C. Handel. 2006. Patterns of cavernicole diversity and abundance in Pulaski County, Missouri. National Speleological Society Convention (August 11, Bellingham, Washington).
- Taylor, S.J.** (presenter), M.E. Slay, S.R. Ahler, and W.C. Handel. 2006. Patterns of cavernicole diversity and abundance in Pulaski County, Missouri. Poster presentation, Missouri Academy of Science (21-22 April 2006, Kirksville, Missouri).
- Taylor, S.J.** (presenter), K. Hackley, J.K. Krejca, S.E. Greenberg, and M.L. Denight. 2005. Stable isotopes ( $\delta^{13}C$ ,  $\delta^{15}N$ ) as indicators of trophic structure in central Texas (USA) cave ecosystems. 14<sup>th</sup> International Congress of Speleology (21-28 August, Athens-Kalamos, Greece).
- Taylor, S.J.**, M.L. Denight (presenter), A.V. Suarez, C.H. Dietrich, and K. Ramsdell. 2005. Monitoring terrestrial insect biodiversity on forested & cleared land at Camp Atterbury, Indiana. Poster presentation, 14th Annual Integrated Training Area Management (ITAM) workshop (1-4 August, Indianapolis, Indiana).
- Taylor, S.J.** (presenter), M.E. Slay, and S.R. Ahler. 2005. A biological survey of caves at Fort Leonard Wood, Missouri. National Speleological Society Convention (July 8, Huntsville, Alabama).
- Krejca, J.K. (presenter), **S.J. Taylor**, C.A. Phillips and M.L. Denight. 2005 Management concerns for cave ecosystems in central Texas. Strategic Environmental Research & Development Program, Technical Symposium & Workshop: Threatened, Endangered, and at-Risk Species on Department of Defense and Adjacent Lands (7-9 June, Baltimore, Maryland). (7-9 June, Baltimore, Maryland).
- Taylor, S.J.**, M.E. Slay (presenter), and S.R. Ahler. 2005. Development & field-testing of baseline inventory & monitoring protocols for cave biota at Fort Leonard Wood, Missouri. Missouri Academy of Sciences Annual State Meeting, (15-16 April, Lincoln University of Missouri, Jefferson City, Missouri).
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- Taylor, S.J.**, M.E. Slay, and W.C. Handel. 2006. Cave fauna survey and monitoring at Fort Leonard Wood, Missouri. Illinois Natural History Center for Biodiversity Technical Report 2006(7): i–xi, 1–245. <http://hdl.handle.net/2142/54896>
- Taylor, S.J.** and J.K. Krejca. 2006. A biological assessment of caves in Lava Beds National Monument. Illinois Natural History Survey, Center for Biodiversity Technical Report 2006(6): 1–107.
- Feist, M. (ed.), S.B. Amundsen, D. Busemeyer, K.S. Cummings, C. Grigg, W. Handel, K. Johnson, D. Keene, R. Larimore, P. Marcum, K. Moss, J.E. Petzing, C.A. Phillips, A.E. Plocher, J. Sandberger, J.B. Taft, C.A. Taylor, **S.J. Taylor**, J.S. Tiemann, M.J. Wetzel, L.B. Cordle, F.R. Hutto. 2006. An assessment of biological resources associated with the 2005 Illinois 336 project corridor, Peoria, Fulton, and McDonough counties, Illinois. Illinois Natural History Survey Center for Wildlife and Plant Ecology Technical Report 2006(2): i–xiii, 1–50 + appendices, maps, and figures.
- Edwards, A.E. (ed.), S. Hill, J.B. Taft, D. Busemeyer, Wiesbrook, Zercher, A.E. Plocher, J.E. Hoffman, Mengelkoch, J.E. Petzing, D.A. Enstrom, C.A. Phillips, **S.J. Taylor**, C.A. Taylor, K.S. Cummings, S.B. Amundsen, J.S. Tiemann, K. Moss, L.B. Cordle, F.R. Hutto. 2006. An

- assessment of the biological resources associated with the Illinois Prairie Parkway project corridor, Grundy, Kane and Kendall counties, Illinois. Illinois Natural History Survey Center for Wildlife and Plant Ecology Technical Report 2006 (1). xxi + 461 pp + appendices + figures.
- Taylor, S.J.**, C.A. Phillips, and J.K. Krejca. 2005. Population estimates and age class structure of the salamander *Plethodon albagula* (Plethodontidae) at Fort Hood, Texas. Illinois Natural History Survey, Center for Biodiversity Technical Report 2005(19): 1–43. <http://hdl.handle.net/2142/54894>
- Wetzel, M.J., J.E. Hofmann (Co-Editors), A.E. Edwards, J.B. Taft, B.W. Wilm, A.E. Plocher, J.E. Petzing, D.A. Enstrom, C.A. Phillips, **S.J. Taylor**, C.A. Taylor, K.S. Cummings, S.B. Amundsen, J.S. Tiemann, K. Moss, L.B. Cordle, and F.R. Hutto. 2005. An assessment of the biological resources associated with the extended Illinois Route 29 project corridor, Bureau, Marshall, Peoria, and Putnam Counties, Illinois. Illinois Natural History Survey Center for Biodiversity Technical Report 2005 (9). xvi + 72 pp + appendices + figures.
- Taylor, S.J.** A.V. Suarez, C.H. Dietrich, K. Ramsdell and S.C. Funderburk. 2005. Evaluation and monitoring of terrestrial and aquatic insect biodiversity in forested and cleared watersheds at Camp Atterbury, Indiana. Illinois Natural History Survey, Center for Biodiversity Technical Report 2005(1): 1–103.
- Ahler, S.R., **S.J. Taylor**, M.E. Slay, and W.C. Handel. September 2004. Cultural and biological inventory and monitoring protocol for thirteen selected caves at Fort Leonard Wood, Missouri. Illinois State Museum Society, Landscape History Program, Technical Report 2004-1562-8. viii + 161 pages, 13 maps, 6 appendices. {note: biology portion merely repeats Taylor, Slay, & Handel report of 2003}
- Taylor, S.J.**, K. Hackley, J.K. Krejca, M.J. Dreslik, S.E. Greenberg, and E.L. Raboin. 2004. Examining the Role of Cave Crickets (Raphidophoridae) in Central Texas Cave Ecosystems Isotope Ratios ( $\delta^{13}\text{C}$ ,  $\delta^{15}\text{N}$ ) and Radio Tracking. Illinois Natural History Survey, Center for Biodiversity Technical Report 2004(9): 1–128.
- Taylor, S.J.**, and C.A. Phillips. July 2003. A survey of *Plethodon* sp. (Plethodontidae) salamander populations in caves and sinkholes at Fort Hood, Texas. US Army Corps of Engineers, Engineer Research and Development Center, Champaign, IL. ERDC/CERL CR-03-2. 32 pp.
- Taylor, S.J.**, J.K. Krejca, J.E. Smith, V.R. Block, and F. Hutto. 2003. Investigation of the potential for Red Imported Fire Ant (*Solenopsis invicta*) impacts on rare karst invertebrates at Fort Hood, Texas: a field study. Illinois Natural History Survey, Center for Biodiversity Technical Report 2003(28): 1–153. <http://hdl.handle.net/2142/54892>
- Krejca, J.K. and **S.J. Taylor**. 2003. A biological inventory of eight caves in Great Basin National Park. Illinois Natural History Survey, Center for Biodiversity Technical Report 2003(27):1-72.
- Taylor, S.J.**, P.S. Sprouse, and F. Hutto. 2003. A survey of Red Imported Fire Ant (*Solenopsis invicta*) distribution and abundance at Fort Hood, Texas. Illinois Natural History Survey, Center for Biodiversity Technical Report 2003(26): 1–42. <http://hdl.handle.net/2142/54890>
- Taylor, S.J.**, M.E. Slay, and W.C. Handel. 2003. A biological survey and monitoring protocol for thirteen caves at Fort Leonard Wood, Missouri. Illinois Natural History Survey, Center for Biodiversity Technical Report 2003(22): 1–134. <http://hdl.handle.net/2142/54889>
- Taylor, S.J.**, F.M. Wilhelm, G.L. Adams and M.P. Venarsky. 2003. Establishing baseline data on seasonal physiological requirements for *Gammarus acherondytes* and *Gammarus troglophilus* in relation to microbial oxygen demand. Illinois Natural History Survey, Center For Biodiversity Technical Report 2003(20): 1–50. <http://hdl.handle.net/2142/9997>
- Wetzel, M.J., J.E. Hofmann (co-editors), A.E. Edwards, J.A. Koontz, J.B. Taft, B.W. Wilm, A.E. Plocher, J.E. Petzing, D.A. Enstrom, C.A. Phillips, **S.J. Taylor**, C.A. Taylor, K.S. Cummings, S.B. Amundsen, J.S. Tiemann, R.E. DeWalt, and D.A. Soluk; mapping by K.J. Hunter, L.B. Suloway, and F.R. Hutto. 2003. An Assessment of the Biological Resources Associated with the Illinois

- Route 29 Project corridor, Bureau, Marshall, Peoria, and Putnam Counties, Illinois. Illinois Natural History Survey Center for Biodiversity Technical Report 2003 (4). Prepared For Illinois Department of Transportation Bureau of Design and Environment, 2300 South Dirksen Parkway, Springfield, IL 62764. 28 March 2003. 98 pages + appendices.
- 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>
- Taylor, S.J.** and C.A. Phillips. 2002. A survey of *Plethodon* sp. (Plethodontidae) salamander populations in caves and sinkholes at Fort Hood, Texas. Illinois Natural History Survey, Center for Biodiversity Technical Report 2002(12): 1–23 + CD. <http://hdl.handle.net/2142/18083>
- 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):

- 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:**

Western 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 – present)
- 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)

### **Professional Service for Organizations:**

- 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 <<http://speleobiology.com/icsb2016/>> (2014-2017)
- Member, IUCN SSC Cave Invertebrate Specialist Group, Species Survival Commission of the International Union for Conservation of Nature (IUCN) (15 March 2014 – 2016, 2017 – 2020)
- Steering Committee, National Cave and Karst Management Symposium (March 2014 - present)
- Technical Manager of Microbiology and Entomology, Sociedad Espeleológica Científica Ecuatoriana (Ecuadorian Scientific Speleological Society) (January 2012 – present)
- Board of Directors, Karst Waters Institute (April 2011 – Mar 2016)

- Nominations Committee, Karst Waters Institute (March 2011 - Mar 2016)
- Board of Directors, Illinois Speleological Survey (2003 – present)
- Board of Directors, President, Subterranean Ecology Institute (January 2011 – present)
- Science Advisor, Clifftop NFP (2010 – 2017)
- Southwestern Illinois Wildlife Action Plan Partnership (2012 – 2017)
- Horseshoe Bay Cave Science Advisory Group (January 2013 – 2017)

**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; monitoring protocol reviews for the National Park Service; review for Catalog of Life.

**Conservation and Management:**

- Colorado Bat Working Group (2017 – present)
- Midwest Bat Working Group (2011 – 2017)
- 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 – present)
- 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 member 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 member (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.

#### PROFESSIONAL EXPERIENCE:

**Associate Research Professor**, Colorado College. August 2017 — present.

**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.

#### **MANUSCRIPTS IN PREPARATION:**

Cinel, S.D., S.V. Fend and S.J. Taylor. A new aquatic worm (Annelida, Clitellata, Lumbriculidae) from epikarstic groundwater, with observations on epikarstic Copepoda (Crustacea) in the Salem Plateau of Illinois, USA

Taylor, S.J., D. Booher, A. Addison and T. Toulkeridis. Ants (Hymenoptera: Formicidae) recorded from lava tubes of the Galápagos Islands (Ecuador)

Baker, G.M., Taylor, S.J., et al.. Cave visitation in relation to invertebrate distribution patterns in Lehman Cave, Great Basin National Park, Nevada, USA.

#### **RESEARCH IN PROGRESS:**

Taylor, S.J. New subterranean amphipods.

Taylor, S.J. (& Colorado College student collaborators) Groundwater amphipods in Colorado.

Taylor, S.J. (& Colorado College student collaborators) Ecoacoustics in natural and built landscapes.

Katz, A.D., S.J. Taylor. Springtails from caves.

Katz, A.D., S.J. Taylor and M.A. Davis. Springtails diversity in lava tube caves of Lassen National Forest, California.

Davis, M.A., S.J. Taylor, and others. Phylogeography of Illinois scorpions.

Davis, M.A., M.L. Niemiller, S.J. Taylor, B. Weck, C. Lydeard, and others. Phylogeography, genetic variation and morphometrics of cave-inhabiting physid snails in Illinois' Salem Plateau.

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:

Jenna McDonald (Summer 2018: Organismal Biology & Ecology, Colorado College)

Carly Bonwell (Summer 2018, Spring 2019: Environmental Science, 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

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 Colorado, Colorado Springs.  
The Biology of Subterranean Ecosystems *for*: BIOL 3700 General Ecology (Dr. Emily Mooney). Fall 2018 (28 Nov 2018)  
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, 9:00am-5:00pm, Waynesville, Missouri).  
Lead workshop with Megan Porter, Matthew Niemiller, Chris Hobson and others.  
2013. National Speleological Society (8 August 2013, 1:30-5:00pm, 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