

Carl W. Dick

Doctor of Philosophy, Zoology

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AFFILIATIONS

Professor: Department of Biology, WKU, 2020-present

Associate Professor: Department of Biology, WKU, 2015-2020

Assistant Professor: Department of Biology, WKU, 2009-2015

Research Associateships: Field Museum of Natural History, The Museum of Texas Tech University, Center for North American Bat Research and Conservation

PERSONAL

Birthplace: Kansas City, Missouri, USA

High School: Mountain Lake, Minnesota, USA

Residence: Smiths Grove, Kentucky, USA

Citizenship: United States of America

EDUCATION

Ph.D., 2005. Zoology. Texas Tech University, Lubbock, Texas

M.S., 1998. Biology. University of Central Arkansas, Conway, Arkansas

B.A., 1992. Biology/Environmental Biology. Tabor College, Hillsboro, Kansas

POSTDOCTORAL EXPERIENCE (June 2005 - August 2009)

Brown Postdoctoral Research Fellow, Field Museum of Natural History, Chicago, Illinois, USA

Advisor: Dr. Bruce D. Patterson, MacArthur Curator of Mammals

DISCIPLINE-SPECIFIC HONORS

Gloeandromyces dickii Haelewaters & Pfister, 2019. New species. (Harvard University - Fungal Systematics and Evolution 3: 19-3). A new species of Ascomycota: Laboulbeniales from the bat fly *Trichobius joblingi* in Panama.

Dickia Gracioli, dos Santos and Rebêlo, 2022. New genus. (Systematic Parasitology doi.org/10.1007/s11230-022-10062-4). Postgenal ctenidium in bat flies (Diptera, Streblidae): new genus, with description of two species, and delimitation of Streblinae.

Gloeandromyces pseudodickii Blondelle & Haelewaters, 2023. New species. (Mycologia). Five new species of *Gloeandromyces* (Fungi, Laboulbeniales) from tropical American bat flies (Diptera, Streblidae), revealed by morphology and phylogenetic reconstruction.

PUBLICATIONS (Submitted, In Press, and Published)

[Google Scholar citation indices](#): total citations = 3385; h-index = 34; i10-index = 60

[ResearchGate indices](#): (professional science networking site)

Manuscripts Submitted

Brown, A. M., K. Speer, T. Teixeira, E. Clare, N. Simmons, J. A. Balbuena, **C. W. Dick**, K. Dittmar, and S. Perkins. Phylogenetic and ecological trends in specialization: disentangling the drivers of ectoparasite host specificity. *Journal of Animal Ecology*.

In Press

(70) Patterson, B. D., P. W. Webala, L. Torrent, A. L. Grunwald, J. C. Kerbis Peterhans, M. M. McDonough, **C. W. Dick**, M. Bartonjo, S. M. Goodman, M. C. Schoeman, L. A. Ruedas, J. Juste, and T. C. Demos. 2024 (In Press). A survey of the *Rhinolophus landeri* species complex with three additional Afrotropical horseshoe bats. *Journal of Mammalogy*.

2023

(69) Van Caenegema, W., A. Blondelle, I. Dumoleina, B. Santamariaa, **C. W. Dick**, T. Hiller, C. A. Quandt, R. V. Villarreal Saucedof, A. Verbekena, and D. Haelewaters. 2023. Five new species of *Gloeandromyces* (Fungi, Laboulbeniales) from tropical American bat flies (Diptera, Streblidae), revealed by morphology and phylogenetic reconstruction. *Mycologia*.
DOI: <https://doi.org/10.1080/00275514.2023.2230114>

(68) **Dick, C. W.**, *T. B. Verrett, P. W. Webala, and B. D. Patterson 2023. Nycteribiid bat flies (Arthropoda, Insecta, Diptera, Nycteribiidae) of Kenya. *Zookeys*. 1169: 65–85. DOI: <https://doi.org/10.3897/zookeys.1169.102800>

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(67) *Verrett, T. B., P. W. Webala, B. D. Patterson, and **C. W. Dick**. 2022. Remarkably low host specificity in the bat fly *Penicillidia fulvida* (Diptera: Nycteribiidae) as assessed by mitochondrial COI and nuclear 28S sequence data. *Parasites and Vectors*. DOI: <https://doi.org/10.1186/s13071-022-05516-z>

(66) Speer, K. A., T. S. M. Teixeira, A. Brown, S. L. Perkins, K. Dittmar, M. Ingala, C. Wulsch, K. Krampis, **C. W. Dick**, S. Galen, N. B. Simmons, and E. L. Clare. 2022. Cascading effects of habitat patch area on parasite communities and their associated bacterial microbiomes. *ISME Communications*.
DOI: <https://doi.org/10.1038/s43705-022-00153-0>

2021

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DOI: <https://doi.org/10.1111/mec.16044>

(64) Haelewaters, D., **C. W. Dick**, K. P. Cocherán Pittí, K. Dittmar, and B. D. Patterson. 2021. Bats, Bat Flies, and Fungi: Exploring Uncharted Waters. Pages 349-371 In:

- Lim, B. K., M. B. Fenton, R. M. Brigham, S. Mistry, A. Kurta, E. H. Gillam, A. Russell, and J. Ortega (Eds). 50 Years of Bat Research: Foundations and New Frontiers. Springer, Cham, Switzerland.
- (63) Porter, M. L., T. W. Cronin, **C. W. Dick**, N. Simon, and K. Dittmar. 2021. Visual system characterization of the obligate bat ectoparasite *Trichobius frequens* (Diptera: Streblidae). *Arthropod Structure and Development*. 60: DOI: <https://doi.org/10.1016/j.asd.2020.101007>
- 2020**
- (62) Liu, J., D. Haelewaters, W. P. Pfliegler, R. A. Page, **C. W. Dick** and M. C. Aime. 2020. A new species of *Gloeandromyces* from Ecuador and Panama revealed by morphology and phylogenetic reconstruction, with a discussion of secondary barcodes in Laboulbeniomycetes taxonomy. *Mycologia*. DOI: <https://doi.org/10.1080/00275514.2020.1781496>
- (61) Hüseyin, Ç., G. Coşkun, and **C. W. Dick**. 2020. Ectoparasitic bat flies (*Eucampsipoda hyrtlai*) detected on the Egyptian Fruit Bat (*Rousettus aegyptiacus*) in Antalya, Turkey. *Turkiye Parazitoloj Derg* 44: 115-117. DOI: <https://doi.org/10.4274/tpd.galenos.2020.6762>
- 2019**
- (60) Lutz, H. L., E. W. Jackson, **C. W. Dick**, P. W. Webala, W. S. Babyesiza, J. C. Kerbis Peterhans, T. C. Demos, B. D. Patterson, and J. A. Gilbert. 2019. Associations between Afrotropical bats, parasites, and microbial symbionts. *Nature, Ecology and Evolution*. DOI: <https://doi.org/10.1101/340109>
- (59) Speer, K. A., E. Luetke, E. Bush, B. Sheth, A. Gerace, Z. Quicksall, M. Miyamoto, **C. W. Dick**, K. Dittmar, N. Albury, and D. L. Reed. 2019. A fly on the cave wall: parasite genetics reveal fine-scale dispersal patterns of bats. *Journal of Parasitology* 105: 555-556. DOI: <https://doi.org/10.1645/19-20>
- (58) Webala, P. W., J. Rydell, **C. W. Dick**, S. Musila, and B. D. Patterson. 2019. Echolocation calls of high duty-cycle bats (Hipposideridae and Rhinonycteridae) from Kenya. *Journal of Bat Research and Conservation* 12: 10-20. DOI: <https://doi.org/10.14709/BarbJ.12.1.2019.02>
- 2018**
- (57) Haelewaters, D., T. Hiller, and **C. W. Dick**. 2018. Bats, Bat Flies, and Fungi: A Case of Hyperparasitism. *Trends in Parasitology* 1775 (16 pp.) (Journal Cover Article) DOI: <https://doi.org/10.1016/j.pt.2018.06.006>
- (56) Patterson, B. D., P. W. Webala, M. Bartonjo, J. Nziza, **C. W. Dick**, and T. C. Demos. 2018. On the taxonomic status and distribution of African species of *Otomops* (Chiroptera: Molossidae). *PeerJ* 6: e4864; DOI: <https://doi.org/10.7717/peerj.4864>
- (55) Brown, B. V. et al. (51 total authors). 2108. Comprehensive inventory of true flies (Diptera) at a tropical site. *Communications Biology* 1: 21 (8 pp.). DOI: <https://doi.org/10.1038/s42003-018-0022-x>
- (54) Borkent, A. et al. (51 total authors). 2018. Remarkable fly (Diptera) diversity in a patch of Costa Rican cloud forest: Why inventory is a vital science. *Zootaxa* 4402: 053-090. DOI: <https://doi.org/10.11646/zootaxa.4402.1.3>
- (53) Buchholz, M. J., C. Davis, N. S. Rowland, and **C. W. Dick**. 2018. *Borrelia burgdorferi* in rodent reservoirs in Kentucky, a non-endemic state for Lyme Disease. *Parasitology Research*. DOI: <https://doi.org/10.1007/s00436-018-5794-x>

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- (52) Ramasindrazana, B., S. M. Goodman, Y. Gomard, **C. W. Dick**, and P. Tortosa. 2017. Hidden diversity of Nycteribiidae (Diptera) bat flies from the Malagasy region and insights on host-parasite interactions. *Parasites and Vectors* 10: 630 (8 pp.). DOI: <https://doi.org/10.1186/s13071-017-2582-x>
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- (50) Haelewaters, D., W. P. Pfliegler, T. Szentiványi, M. Földvári, A. D. Sándor, L. Barti, J. J. Camacho, G. Gort, P. Estók, T. Hiller, **C. W. Dick**, and D. H. Pfister. 2017. Laboulbeniales (Fungi, Ascomycota) ectoparasites of Central European bat flies (Diptera, Nycteribiidae): distributional data and host associations. *Parasites and Vectors*. DOI: <https://doi.org/10.1186/s13071-017-2022-y>

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- (49) **Dick, C. W.**, G. Gracioli, and R. Guerrero. 2016. Family Streblidae. *Zootaxa* 4122: 784-802. DOI: <https://doi.org/10.11646/zootaxa.4122.1.67>
- (48) Gracioli, G. and **C. W. Dick**, and R. Guerrero. 2016. Family Nycteribiidae. *Zootaxa* 4122: 780-783. DOI: <https://doi.org/10.11646/zootaxa.4122.1.66>

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- (47) Villalobos-Chaves, D., and **C. W. Dick**. 2015. Rediscovery of the rare Tacarcunan bat *Lasiurus castaneus* (Chiroptera: Vespertilionidae) in Cost Rica. *Ecotropica* 20:83-86.
- (46) Dittmar, K., S. F. Morse, **C. W. Dick**, and B. D. Patterson. 2015. (Invited Paper). Bat fly evolution from the Eocene to the Present (Hippoboscoidea, Streblidae and Nycteribiidae). Pages 246-264 In: S. Morand, B. R. Krasnov and T. Littlewood (Editors) *Parasite Diversity and Diversification: Evolutionary Ecology Meets Phylogenetics*. Cambridge University Press. DOI: <https://doi.org/10.1017/CBO9781139794749.017>
- (45) **Dick, C. W.** 2015. Streblidae in *Encyclopedia of Parasitology*, 4th Edition (H. Mehlhorn, Ed.). Springer-Verlag, Berlin. DOI https://doi.org/10.1007/978-3-642-27769-6_3463-1
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- (43) Camacho, M. A., D. G. Tirira, **C. W. Dick**, and S. F. Burneo. 2014. *Lophostoma carrikeri* (Allen, 1910) (Chiroptera: Phyllostomidae): First confirmed records in Ecuador. *Check List* 10: 217-220. DOI: <https://doi.org/10.15560/10.1.217>
- (42) **Dick, C. W.** and K. Dittmar. 2014. (Invited Paper). Parasitic bat flies (Diptera: Streblidae and Nycteribiidae): host specificity and potential as vectors. Pages 131-155 In: S. Klimpel and H. Melhorn (Editors). *Parasitology Research Monographs (Vol. 5): Bats (Chiroptera) as Vectors of Diseases and Parasites*. Springer-Verlag Berlin Heidelberg. 187p. DOI: https://doi.org/10.1007/978-3-642-39333-4_6

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- (41) Tortosa, P., N. Dsouli, Y. Gomard, B. Ramasindrazana, **C. W. Dick** and S. M.

- Goodman. 2013. Evolutionary history of Indian Ocean nycteribiid bat flies mirroring the ecology of their hosts. PLoS One 8: e75215.
DOI: <https://doi.org/10.1371/journal.pone.0075215>
- (40) Olival, K. J., **C. W. Dick**, N. B. Simmons, J. C. Morales, D. J. Melnick, K. Dittmar, S. L. Perkins, P. Daszak and R. DeSalle. 2013. Lack of population genetic structure and host specificity in the bat fly, *Cyclopodia horsfieldi*, across species of *Pteropus* bats in Southeast Asia. Parasites and Vectors 6:231 (18 pp.).
DOI: <https://doi.org/10.1186/1756-3305-6-231>
- (39) Morse, S.F., S. Bush, B.D. Patterson, **C.W. Dick**, M. Gruwell, and K. Dittmar. 2013. Evolution, multiple acquisition, and localization of endosymbionts in bat flies (Hippoboscoidea, Streblidae, Nycteribiidae). Applied and Environmental Microbiology 79: 2952-2961. DOI: <https://doi.org/10.1128/AEM.03814-12>
- (38) **Dick, C. W.** 2013. Review of the bat flies of Honduras, Central America (Diptera: Streblidae). Journal of Parasitology Research Vol. 2013, Article ID 437696, 17 pp. DOI: <https://doi.org/10.1155/2013/437696>

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- (37) Kim, H-C., S-H. Han, **C. W. Dick**, S-T. Chong, T. Klein, L. Rueda. 2012. Geographical distribution of bat flies (Diptera: Nycteribiidae and Streblidae), including two new records, *Nycteribia allotopa* and *N. formosana* collected from bats (Chiroptera: Rhinolophidae and Vespertilionidae) in the Republic of Korea. Journal of Vector Ecology 37: 333-337.
DOI: <https://doi.org/10.1111/j.1948-7134.2012.00235.x>
- (36) Morse, S., **C. W. Dick**, B. D. Patterson, and K. Dittmar. 2012. Some like it hot: Evolution and ecology of novel endosymbionts in bat flies of cave-roosting bats (Hippoboscoidea, Nycterophiliinae, *Nycterophilina*). Applied and Environmental Microbiology 78: 8639-8649. DOI: <https://doi.org/10.1128/AEM.02455-12>
- (35) Morse, S., K. Olival, M. Kosoy, S. Billeter, B. D. Patterson, **C. W. Dick**, and K. Dittmar. 2012. Global distribution and genetic diversity of *Bartonella* in bat flies (Hippoboscoidea, Streblidae, Nycteribiidae). Infection, Genetics and Evolution 12: 1717-1723. DOI: <https://doi.org/10.1016/j.meegid.2012.06.009>
- (34) Pilosof, S., **C. W. Dick**, C. Corine, B. D. Patterson, and B. Krasnov. 2012. Effects of anthropogenic disturbance and climate on patterns of bat fly parasitism on bats. PLoS One 7: 1-7. DOI: <https://doi.org/10.1371/journal.pone.0041487>
- (33) Gracioli, G., and **C. W. Dick**. 2012. Description of a second species of *Joblingia* Dybas & Wenzel, 1947 (Diptera: Streblidae). Systematic Parasitology 81: 187-193. DOI: <https://doi.org/10.1007/s11230-011-9338-3>

2011

- (32) Gettinger, D., **C. W. Dick**, and R. D. Owen. 2011. Host associations between laelapine mites (Parasitiformes: Laelapidae) and palustrine rodents in Paraguay: A study of host specificity and cryptic species. Systematic and Applied Acarology 16: 145–159. DOI: <https://doi.org/10.11158/saa.16.2.3>
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2010

- (30) **Dick, C. W.** and J. A. Miller. 2010. (Invited Paper). Streblidae. Pp. 1249-1260 In:

Manual of Central American Diptera (Vol II). Brown, B.V., A. Borkent, J.M. Cumming, D.M. Wood, N.E. Woodley, and M. Zumbado (Editors). National Research Council Press, Ottawa.

2009

- (29) Whitaker, J. O. Jr., C. M. Ritzi and **C. W. Dick**. 2009. (Invited Paper). Collecting and preserving ectoparasites for ecological study. Pages 806-827 In: Kunz, T. H. and S. Parsons (Editors). Ecological and behavioral methods for the study of bats. 2nd edition. Johns Hopkins University Press, Baltimore. 901p.
DOI: <https://doi.org/10.1111/j.1096-3642.2011.00696.x>
- (28) **Dick, C. W.**, C. E. L., Esbérard, G. Graciolli, H. G. Bergallo, and D. Gettinger. 2009. Assessing host specificity of obligate ectoparasites in the absence of dispersal barriers. *Parasitology Research* 105: 1345-1349.
DOI: <https://doi.org/10.1007/s00436-009-1563-1>
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DOI: <https://doi.org/10.1111/j.1600-0587.2008.05727.x>
- (24) Holsomback, T. S., N. E. McIntyre, R. A. Nisbett, R. E. Strauss, Y-K Chu, A. A. Abuzeineh, N. de la Sancha, **C. W. Dick**, C. B. Jonsson, B. E. L. Morris. 2009. Bayou virus detected in non-oryzomyine rodent hosts: an assessment of habitat composition, reservoir community structure, and rice rat social dynamics. *Journal of Vector Ecology* 34: 9-21.
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2008

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- (18) Tello, J. S., R. D. Stevens, and **C. W. Dick**. 2008. Patterns of species co-occurrence and density compensation: a test for interspecific competition in bat ectoparasite infracommunities. *Oikos* 117: 693-702.
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- 2004**
- (4) Graciolli, G. and **C. W. Dick**. 2004. A new species of *Metelasmus* (Diptera: Streblidae: Streblinae) from southern South America. *Zootaxa* 509: 1-8. DOI: <https://doi.org/10.11646/zootaxa.509.1.1>
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- 1998**
- (1) **Dick, C. W.** 1998. Macroinvertebrate community structure of headwater streams of the Buffalo National River, Arkansas, in relation to physicochemical environmental variables. M.S. Thesis. University of Central Arkansas, Conway, Arkansas. 72p.

Manuscripts In Preparation:

- Hrycyna, G., **C. W. Dick**, and G. Graciolli. Catalog of South American Nycteribiidae (Diptera: Hippoboscoidea). *Manual of South American Diptera*, Vol. 2 (M. Couri, C. J. B. de Carvalho, C. J. E. Lamas, S. S. Nihei, D. de Souza Amorim, J. A. Rafael, and W. N. Mathis, Eds.).
- Graciolli, G. and **C. W. Dick**, and D. Maximo. Catalog of South American Streblidae (Diptera: Hippoboscoidea). *Manual of South American Diptera*, Vol. 2 (M. Couri, C. J. B. de Carvalho, C. J. E. Lamas, S. S. Nihei, D. de Souza Amorim, J. A. Rafael, and W. N. Mathis, Eds.).
- Dittmar, K, **C. W. Dick**, and B. D. Patterson. Phylogenetic analysis of New World Trichobiine bat flies (Diptera: Streblidae) based on mitochondrial and nuclear gene sequences: independent evolution of eye and wing patterns upon coevolving bat clades.
- Dick, C.W.**, A. Sjodin, K. Dittmar, and B.D. Patterson. The influence of bat roost duration and protection on visual reductions in bat fly ectoparasites.
- Dick, C. W.**, J. S. Tello, and G. Graciolli. The streblid bat flies (Diptera: Hippoboscoidea) of Ecuador.

Online Resources/Publications:

- Field Museum Insects Division.** Online Insect Collections Database: Vertebrate Ectoparasites. Posted at the following URL (version 24 March 2009):

<http://emuweb.fieldmuseum.org/arthropod/ectoparasites.php>

Dick, C. W. and G. Gracioli. Checklist of World Streblidae (Diptera: Hippoboscoidea).

Posted at the following URL (version January 2018):

https://www.researchgate.net/publication/322578992_CHECKLIST_OF_WORLD_HIPPOBOSCIDA_E_DIPTERA_HIPPOBOSCOIDEA

Gracioli, G. and **C. W. Dick**. Checklist of World Nycteribiidae (Diptera: Hippoboscoidea).

Posted at the following URL (version July 2018):

https://www.researchgate.net/publication/322579074_CHECKLIST_OF_WORLD_NYCTERIBIIDAE_DIPTERA_HIPPOBOSCOIDEA

Dick, C. W. Checklist of World Hippoboscidae (Diptera: Hippoboscoidea). Posted at the following URL (version January 2018):

https://www.researchgate.net/publication/322578992_CHECKLIST_OF_WORLD_HIPPOBOSCIDA_E_DIPTERA_HIPPOBOSCOIDEA

Dick, C. W. Checklist of World Glossinidae (Diptera: Hippoboscoidea). Posted at the following URL (version 3 November 2006):

http://fm1.fieldmuseum.org/aa/Files/cdick/Glossinidae_Checklist_3nov06.pdf

Dick, C. W. and M. Bindokas. Checklist of World Polycetenidae (Hemiptera: Cimicoidea).

Posted at the following URL (version January 2018):

https://www.researchgate.net/publication/322725590_CHECKLIST_OF_WORLD_POLYCTENIDAE_HEMPTERA_CIMICOIDEA

PENDING PROPOSALS

FUNDED GRANTS, SCHOLARSHIPS, AND AWARDS (Career Total = \$2,544,000)

National Science Foundation (DEB- PurSUiT), 2021-2024. (\$1,499,000); Collaborative Research: PurSUiT: Species diversity and evolution of parasitic microfungi. Mary C. Aime, PI, **Carl W. Dick**, Danny Haelewaters, Kyryll Savchenko, Alisha Quandt, CoPIs (\$211,455 subaward to WKU).

Western Kentucky University, Research and Creative Activities Program #18-8001, 2017-2018. (\$5,050); Nycteribiid bat flies of the world. **Carl W. Dick**, PI

John Robinson Professorship, 2013-present. Western Kentucky University, Ogden College of Science and Engineering; for recognition of exceptionally meritorious faculty achievement (awards ca. \$3,000/year for research support)

Western Kentucky University, Research and Creative Activities Program (#13-8037), 2013-2014. (\$7,000); Flying under the radar?: Immunological compatibility reinforces host specificity in blood-feeding parasites. **Carl W. Dick**, PI

JRS Biodiversity Foundation, 2012-2015. (\$90,095); Bats of Kenya: distribution, status, ecology, and public health. Field Museum of Natural History, Bruce D. Patterson, Paul W. Webala, PIs, **Carl W. Dick**, CoPI

Western Kentucky University, Research and Creative Activities Program (#11-8020), 2011-2012. (\$15,000); Catalogs and Monographs on world collections of bat flies (Diptera: Streblidae and Nycteribiidae). **Carl W. Dick**, PI

Western Kentucky University, Office for Sponsored Programs Proposal Incentive Fund (#10-905), 2009. (\$1,350); Long-term Loan Acquisition of Field Museum's Hippoboscoid Diptera (Bat Flies) Collection. **Carl W. Dick**, PI

Smithsonian Institution/US National Museum Williston Fund, 2009. (\$1,335);

Inventory and loan of the US National Collection of hippoboscoid Diptera. **Carl W. Dick**, PI

National Science Foundation (DEB-0640330, 0640331, 1003459), 2007-2012. (\$420,000); Collaborative Proposal: Phylogeny of the bat flies of the world – Insights into trends in host associations and ectoparasitism. Katharina Dittmar and **Carl W. Dick**, PIs; Bruce D. Patterson, CoPI

National Science Foundation (DBI-0545051), 2006-2010. (\$406,912); Digitization, Conversion, and Accessibility of The Field Museum’s Bat Fly Collection. **Carl W. Dick**, PI; Bruce D. Patterson, Joanna McCaffrey, Alfred F. Newton, CoPIs

National Geographic Society, Committee on Research and Exploration, 2006. (\$12,793); Behavioral Ecology of Ectoparasites Infesting Bats, Marsupials, and Rodents in the Atlantic Forests of Ilha Grande, Rio de Janeiro State, Brazil. Donald Gettinger, PI; **Carl W. Dick**, CoPI

Entomological Society of America, 2006. (\$790); Symposium Speaker Fund for Special Symposium (Section A)

Field Fund Grants for Collections, 2005. (\$3,330); Field Museum of Natural History

Summer Dissertation Research Award, 2005. (\$2,300); The Graduate School, Texas Tech University

Research Grant, 2004. (\$30,000); “Genetic diversity and phylogeography of the small mammal fauna of the western side of the Andes in Ecuador.” Robert J. Baker, René M. Fonseca, PI’s; **Carl W. Dick**, Juan Pablo Carrera, Co-PI’s

ARCS Scholarship, 2004. (\$5,000); Achievement Rewards for College Scientists, Lubbock, Texas Chapter

Phi Kappa Phi Honor Society, 2004. (nominated)

Wilks Award Finalist, 2004. Southwestern Association of Naturalists

Field Fund Grant for Collections, 2003. (\$1,724); Field Museum of Natural History

Mini-PEET Award, 2003. (\$4,000); Society of Systematic Biologists

ARCS Scholarship, 2003. (\$5,000); Achievement Rewards for College Scientists, Lubbock, Texas Chapter

Third Best Student Paper, 2003. (\$75); Graduate Research Forum, Texas Tech University Association of Biologists

Summer Scholarship Award, 2003. (\$2,343); Department of Biological Sciences, Texas Tech University

Student Travel Award, 2003. (\$400); Southwestern Association of Naturalists

Robert L. Packard Award (best overall research paper), 2003. (\$150); Texas Society of Mammalogists

J. Knox-Jones, Jr. Memorial Endowed Scholarship, 2002. (\$1,250); Texas Tech University

Research Mini-grant, 2002. (\$350); Association of Biologists, Texas Tech University

Phi Kappa Phi Honor Society, 2002. (nominated)

Explorer’s Club Research Grant, 2001. (\$1,200); The Explorers Club, New York

James Sowell Scholarship, 2001. (\$250); The Museum, Texas Tech University

Summer Research Award, 2001. (\$500); Department of Biological Sciences, Texas Tech University

Best Student Paper, 2001. (\$150); Graduate Research Forum, Texas Tech University Association of Biologists

Summer Research Award, 2000. (\$500); Department of Biological Sciences, Texas Tech University

Dean's List (4.0 GPA), 1999-2005. Texas Tech University

Chancellor's Endowed Graduate Fellowship, 1999-2001. (\$9,000); Texas Tech University

Visiting Scholar Grant, 1999. (\$945); Field Museum of Natural History, Chicago

Student Research Grant, 1996. (\$355); University of Central Arkansas

Student Research Grant, 1995. (\$598); University of Central Arkansas

Dean's List, (4.0 GPA), 1994-1998. University of Central Arkansas

Dean's List, 1991-1992. Tabor College

DECLINED PROPOSALS

National Science Foundation (DEB-EEID), 2020-2024. (\$2,395,307); Hyperparasitism and the evolution of host-virus associations. Tony L. Goldberg, PI, **Carl W. Dick**, Holly L. Lutz, CoPIs (\$401,611 subaward to WKU).

National Science Foundation (DEB-EEID), 2018-2022. (\$1,765,359); Hyperparasitism and the evolution of host-virus associations. Tony L. Goldberg, PI, **Carl W. Dick**, Holly L. Lutz, CoPIs (\$382,863 subaward to WKU).

National Institutes of Health (R21), 2018-2021. (\$430,562 requested). Viruses associated with bats and arthropods. Tony Goldberg, Carl W. Dick, PIs; Holly Lutz, CoPI.

National Science Foundation (MRI), 2013-2015. (\$378,132 requested); MRI: Acquisition of a Laser Scanning Confocal Microscope for Research and Instruction. Ajay Srivastava, PI; Cheryl Davis, **Carl W. Dick**, Hemali Rathnayake, and Michael Smith, CoPIs

National Science Foundation, 2013 (no budget); (DEB#1328283) Proposal Title: Preliminary Proposal: RUI: ARTS: Taxonomy and Systematics of the Bat Fly Holobiont: Revision of Trichobiinae and Streblinae (Hippoboscoidea: Streblidae). **Carl W. Dick**, PI; Katharina Dittmar, coPI

John D. and Catherine T. MacArthur Foundation, 2012-2015. (\$394,159 requested); Bats of Africa's Great Lakes: Roles in Food and Health Security. Bruce D. Patterson, PI; **Carl W. Dick**, Hassan Babiker, Paul Webala, Robert Kityo, and Prince Kaleme, coPIs.

National Science Foundation (MRI), 2012-2014. (\$425,205 requested); Acquisition of a Confocal Laser Scanning Microscope for Research and Instruction. Ajay Srivastava, PI; Cheryl Davis, **Carl W. Dick**, Hemali Rathnayake, and Michael Smith, CoPIs

National Science Foundation (DEB), 2012-2014. (\$15,000); DISSERTATION RESEARCH: Explaining variation in tick populations on mice. **Carl W. Dick**, PI; Erika Arnold, CoPI (at University of Illinois – Chicago)

Western Kentucky University, Research and Creative Activities Program, 2011. (\$8,000 requested); Flying under the radar?: Immunological compatibility reinforces host specificity in blood-feeding parasites. **Carl W. Dick**, PI

National Science Foundation (MRI), 2011-2013. (\$501,414 requested); Acquisition of a Confocal Laser Scanning Microscope for Research and Instruction. Ajay

Srivastava, PI; Cheryl Davis, **Carl W. Dick**, Hemali Rathnayake, and Michael Smith, CoPIs

National Geographic Society, Committee on Research and Exploration, 2011. (\$38,350 requested); An inventory of mammals, their genetic diversity and ectoparasites in two forest ecosystems, Mt. Elgon National Park and Boni-Dodori national forest reserves, Kenya. Paul W. Webala, PI; **Carl W. Dick** and Bruce D. Patterson, CoPIs

WESTERN KENTUCKY UNIVERSITY TEACHING

BIOL 122 (Biological Concepts: Evolution, Diversity, and Ecology), Fall 2010-11, 2013, 2015, Spring 2014

BIOL 122H (Honors Biological Concepts: Evolution, Diversity, and Ecology), Fall 2019, 2021

BIOL 151/153 (Investigative Biotechnology: Evolution Module), Spring 2010

BIOL 225 (Zoology Laboratory), Coordinator, Spring 2017

BIOL 316 (Evolution: Theory and Process), Spring 2015, Summer 2018-2022

BIOL 316H (Honors Evolution: Theory and Process), Spring 2016-2024

BIOL 430 (Evolution: Theory and Process), Spring 2010-2014

BIOL 430 WEB (Evolution: Theory and Process), Spring 2012-2013

BIOL 430G (Evolution: Theory and Process), Spring 2010-2014

BIOL 430H (Honors Evolution: Theory and Process), Spring 2010-2012, 2014, Fall 2012

BIOL 489 (Professional Aspects of Biology), Spring 2020-2024, Fall 2021, 2023

BIOL 500 (Intro to Graduate Study and Research), Fall 2017-2023

BIOL 523 (Symbioses and Host-Parasite Associations), Fall 2012, 2014, 2016, 2018, 2020, 2022

BIOL 598 (Graduate Seminar), 2010-2012

WESTERN KENTUCKY UNIVERSITY SERVICE

- Member, Scheduling and Staffing Committee, Department of Biology, 2024-present
- Member, ad-hoc Tenure and Promotion Guidelines Committee, Department of Biology, 2023-present
- Member, University Academic Complaint Committee, Western Kentucky University, 2021-present
- Member, President's Ad-Hoc Advisory Committee on Continuance and Tenure; Advisory Committee on Faculty Grievance, Western Kentucky University, 2021-2023
- Member, Chair's Advisory Committee, Department of Biology, 2020-2023
- Graduate Council, Western Kentucky University, 2019-2022 (elected)
- Member, Graduate Dean advisory and search committee, Western Kentucky University, 2018 (chaired by Dean Cheryl Stevens)
- Member, University Senate, Western Kentucky University, 2018-2019
- Member, University Senate Executive Committee, 2018-2019
- Chair, Graduate Council Policy Committee, 2018-2021 (elected)
- Chair, Graduate Council, Western Kentucky University, 2018-2019 (elected)

- Vice-Chair, Graduate Council, Western Kentucky University, 2017-2018 (elected)
- Chair, Physiologist/Pathologist faculty search committee, Department of Biology, 2016-2017
- Member, Graduate Dean search committee, Western Kentucky University, 2016 (chaired by Dean Connie Foster)
- Graduate Council, Western Kentucky University, 2016-2020 (elected)
- Graduate Council, Western Kentucky University, 2015-2016 (appointed)
- Graduate Council Policy Subcommittee, Western Kentucky University, 2015-2022
- Graduate Program Director, Department of Biology, 2014-present
- Chair, Graduate Program Committee, Department of Biology, 2014-present
- Member, Graduate Recruitment Council, The Graduate School, 2014-2015
- Chair, Seminar Committee, Department of Biology, 2010-2013
- Member, Tenure and Promotion sub-committee, Department of Biology, 2009-2015
- Member, Graduate Committee, Department of Biology, 2011-2014
- Assistant-In-Training to Graduate Program Director, Department of Biology, 2012-2014
- Member, Ad Hoc BIOL122 committee, Department of Biology, 2010-present
- ATP Advisor, Department of Biology, 2010-2017
- Faculty liaison – Biology Alumni Homecoming Reception, 2010-2016
- Member, Research and Creative Activities Program Committee, Office of Sponsored Programs, 2010-2013
- Judge, WKU Student Research Conference, Bowling Green, KY, Spring 2011-2012
- Guest Lecturer for C. Davis's Parasitology class, Fall 2010
- Guest Lecturer for M. Stokes' Mammalogy class, Fall 2010
- Member, Genetics faculty search committee, Department of Biology, 2009-2010
- Member, Developmental Biology faculty search committee, Department of Biology, 2010 (Host for Developmental Biologist candidate Armando Casas-Mollano)
- Second Reader, Capstone Experience - Honor's College student Candace Read, 2010
- Second Reader, Capstone Experience - Honor's College student Jason Hall, 2010
- Augmentation mentor, BIOL430 (Evolution) for Honor's College students Candace Read, Chris Obermeyer, Erin Eaton, Katrina Bidwell, Daniel Brown, Jason Hall, 2010
- Interview by Bowling Green Daily News on White Nose Syndrome, 21 April 2010
- NSF-REU Advisor for Hillary Jones and Mark Callaghan, 2010

PROFESSIONAL POSITIONS HELD

Western Kentucky University, Department of Biology:

Professor, 2020-present

Associate Professor, 2015-2020

Assistant Professor, 2009-2015
University of Illinois at Chicago, Department of Biological Sciences:
Adjunct Assistant Professor, 2011-present
Field Museum of Natural History, Department of Zoology:
Research Associate, 2002-2005; 2009-2014
Brown Postdoctoral Research Fellow, 2005-2009 (Bruce D. Patterson,
 Advisor)
Curatorial/Research Assistant (B. D. Patterson, Douglas Stotz, and William J.
 O. Ballard); “Birds, Mammals and Parasites Along an Elevational
 Gradient in SE Peru” (NSF DEB-9870191), 2000-2003
Indiana State University, Department of Ecology and Organismal Biology:
Graduate Faculty, 2010-present
Research Associate; Center for North American Bat Research and Conservation,
 2005-present
Texas Tech University, Natural Sciences Research Laboratory:
Research Associate, 2007-present
Texas Tech University, Department of Biological Sciences:
Research Assistant (Robert D. Owen); “Ecology of Hantavirus in Paraguay”,
 2005
Head Teaching Assistant (Lauren Gollahon); Human Anatomy and
 Physiology, 2004
Teaching Assistant (Michael R. Willig); Biometry, 2003
Research Assistant (Marilyn A. Houck, R. D. Owen, Nancy McIntyre, and
 Richard Nisbett); “Landscape Epidemiology of a Texas Hantavirus:
 habitat structure and the potential role of parasites”, 2002-2003
Research Assistant (Robert J. Baker, Robert D. Bradley, Ronald A. Van Den
 Bussche, and Meredith J. Hamilton); James Sowell Expedition to
 Honduras, 2001
Teaching Assistant (Clyde Jones and R. D. Bradley); Vertebrate Natural
 History, 2001
President; Association of Biologists, Texas Tech University, 2000-2001
Teaching Assistant (L. Gollahon); Human Anatomy and Physiology, 1999-2000
Laboratory Manager (R. D. Owen); 1999-2005
Database Manager (R. D. Owen and M. R. Willig); “Mammals of Paraguay and
 their ectoparasites”, 1998-2003 (NSF DEB-9400926, DEB-9741543,
 DEB-9741134)
Research Aide (R. D. Owen and M. R. Willig); “Mammals of Paraguay and their
 ectoparasites”, 1998 (NSF DEB-9400926, DEB-9741543, DEB-9741134)
Research Assistant (Donald Gettinger); “Mammalian ectoparasites of
 Paraguay”, 1997-1998
University of Central Arkansas, Department of Biology:
Research Assistant (Katherine Larson); “Comparative morphological
 plasticity in *Lonicera sempervirens* and *L. japonica*”, 1997-1998
Teaching Assistant (Don Culwell); General Botany, Fall, 1997
Teaching Assistant (Michael L. Mathis); Biology for General Education, 1995-
 1997

Teaching Assistant (Steven Runge); Cellular and Molecular Biology, 1994-1995

MENTORSHIP/SUPERVISION:

- Research Advisor – Alexandria Anderson, WKU Undergraduate student, 2024-present
Research Advisor – Evan Conge, Gatton Academy student, 2023
Academic Advisor (Committee Chair) – Monae Taylor, MS Student, Department of Biology, Western Kentucky University. 2023-present
Academic Advisor (Committee Member) – Gabriela Hrycyna, PhD Student, Department of Entomology, Universidade Federal do Paraná, Curitiba, Brazil. 2023-2024
Academic Advisor (Committee Member) – Ali Zeltzin Lira Olguín, PhD Student, Department of Department of Ecology and Conservation Biology, Texas A&M University, College Station, TX. 2022-present
Academic Advisor (Committee Chair) – Ally Willis, MS Student, Department of Biology, Western Kentucky University. 2022-present
Academic Advisor (Committee Member) – Wilson Noel Gomez Corea, MS Student, Departamento de Ciencias Biologicas, Universidade Estadual de Santa Cruz, Brasil. With Co-advisors Martín Roberto del Valle Alvarez, Gustavo Gracioli. 2019-2022
Academic Advisor (Committee Chair) – Taylor Verrett, MS Student, Department of Biology, Western Kentucky University. 2019-2021
Academic Advisor (Committee Member) – Sophia Corde, MS Student, Department of Biology, Western Kentucky University. 2019-2022
Research Advisor – Savannah Miller, WKU Undergraduate student, 2020-2021
Research Advisor – Savannah Miller, WKU Undergraduate student, 2019-2020
Research Advisor – William Boroughs, Gatton Academy HS Student. 2019
Academic Advisor (Committee Member) – Olivia Gerner, MS Student, Department of Biology, Western Kentucky University. With Co-advisors Keith Philips, Albert Meier. 2017-2019
Academic Advisor (Committee Chair) – Mitchell Schooler, MS Student, Department of Biology, Western Kentucky University. With Co-advisors Jarrett Johnson, Keith Philips. 2015-2017
Academic Advisor (Committee Member) – Christopher Banotai, MS Student, Department of Biology, Western Kentucky University. With Co-advisors Michael Stokes, Scott Grubbs. 2015-2017
Academic Advisor (Committee Member) – Kenneth Anderson, MS Student, Department of Biology, Western Kentucky University. With Co-advisors Jarrett Johnson, Phil Lienesch. 2015-2017
Academic Advisor (Committee Chair) – Matthew Buchholz, MS Student, Department of Biology, Western Kentucky University. With Co-advisors Michael Stokes, Cheryl Davis. 2014-2016
Academic Advisor (Committee Member) – Michael Chaise Gilbert, MS Student, Department of Biology, Western Kentucky University. With Co-advisors Michael Collyer, Steve Huskey. 2015-2016
Academic Advisor (Committee Member) – Michael Barrow, MS Student, Department of Biology, Western Kentucky University. With Co-advisors Jarrett Johnson,

- Michael Collyer. 2013-2015
Academic Advisor (Committee Chair) – Lauren Van Sicklin, MS Student, Department of Biology, Western Kentucky University. With Co-advisors Michael Stokes, Bruce Schulte. 2013-2017
Research Advisor – Grace Babbs and Ajit Deshpande, Gatton Academy HS Students. 2013
Academic Advisor (Committee Member) – Rebecca Morgan, BS Honor’s CE/T Student (Religious Studies). With Co-advisor Joseph Trafton. 2012-2013
Academic Advisor (Committee Co-Chair) – Kayla Pittman, MS Student, Department of Biology, Western Kentucky University. With Co-advisors Cheryl Davis, Kenneth Crawford. 2012-2014
Academic Advisor (Committee Member) – Merrie Richardson, MS Student, Department of Biology, Western Kentucky University. With Co-advisors Michael Stokes, Bruce Schulte. 2012-2014
Academic Advisor (Committee Member) – Kelly Derham, MS Student, Department of Biology, Western Kentucky University. With Co-advisors Bruce Schulte, Albert Meier. 2012-2014
Academic Advisor (Committee Member) – Kevin Tewell, MS Student, Department of Biology, Western Kentucky University. With Co-advisors Jarrett Johnson, Lawrence Alice. 2011-2014
Academic Advisor (Committee Chair) – Ayodele Atolagbe, MS Student, Department of Biology, Western Kentucky University. With Co-advisors Mike Stokes, Keith Phillips. 2011-2012
Academic Advisor (Committee Chair) – Eric Stamper, CE/T Honor’s Undergraduate Student, Department of Biology, Western Kentucky University. With Co-advisors Cheryl Davis, Courte Voorhees. 2011-2012
Academic Advisor (Committee Chair) – Katherine Bias, MS Student (non-thesis), Department of Biology, Western Kentucky University. 2010-2012
Academic Advisor (Committee Member) – Margaret Hook, MS Student, Department of Biology, Western Kentucky University. With Co-advisors Bruce Schulte, Keith Phillips. 2009-2012
Academic Advisor (Committee Member) – Erika Arnold, PhD Student, Ecology and Evolution Group, Department of Biological Sciences, University of Illinois at Chicago. With Co-advisors Henry Howe, Bruce Patterson, Joel Brown, David Wise. 2008-2015
Academic Advisor (Committee Member) – Nicholas Gikas, MS Student, Department of Biology, Indiana State University. With Co-advisors John Whitaker, Steven Lima, Joy OKeefe. 2010-2011
Academic Advisor - Luiz Felipe Alves da Cunha Carvalho, PhD Student, Programa de Pós-graduação em Ecologia e Conservação, Departamento de Biologia, Universidade Federal do Mato Grosso do Sul. With Co-advisors Erich Fischer and Gustavo Graciolli. Campo Grande, Matto Grosso do Sul, Brasil, 2006-2008
Supervisor – Stephanie Ware, Collections Assistant II, Zoology Department, Insect Division, “Bat Flies Like an EMu” project. Chicago, 2007-2009
Supervisor - Mary Beth Prondzinski, Collections Assistant III, Zoology Department, Insect Division, “Bat Flies Like an EMu” project. Chicago, 2006-2007

Supervisor/Mentor - Gabriella Chiono, Field Museum/Loyola University Chicago Internship program. Chicago, fall semester of 2006, spring semester of 2007

Supervisor/Mentor - Cassie Pontone, Charles Muller, Michael Barber, Elizabeth Muller, Michael Bindokas, Lakshmi Sundaresan, and Alifia Merchant. Field Museum/Oak Park-River Forest High School Internship program. Chicago, summers of 2006-2008

Supervisor/Mentor – Sonia Leon and Nickolas Travanty, Field Museum Volunteer Program. Chicago, 2005-2006

Supervisor/Mentor - Juan Sebastian Tello, Ectoparasite Training. Ecuador, 2004; Bat Flies of Ecuador (pursuant to NSF project). FMNH Chicago, 2006 and 2008

Mentor - John Chavez, Ectoparasite Training. Peru, 2001

MANUSCRIPTS and GRANT PROPOSALS REVIEWED FOR:

Acta Chiroptologica, Acta Parasitologica, Biological Journal of the Linnaean Society, Biotropica, Comparative Parasitology, Diversity and Distributions, Ecography, Ecological Entomology, Florida Scientist, Folia Parasitologica, Hysterix – The Italian Journal of Mammalogy, Insecta Mundi, International Journal for Parasitology, Israel Science Foundation, Journal of Animal Ecology, Journal of Biogeography, Journal of Mammalogy, Journal of Parasitology, Journal of Tropical Ecology, Mammalian Species, Mastozoologia Neotropical, Memórias do Instituto Oswaldo Cruz, Molecular Ecology, Molecular Phylogenetics and Evolution, National Geographic Society, National Science Foundation (US), Northeastern Naturalist (Guest Editor), Oecologia, Oikos, Pan Pacific Entomologist, Parasites and Vectors, Parasitology, PLOS One, PNAS, Proceedings of the Oklahoma Academy of Sciences, Revista Brasileira de Entomologia, Southwestern Naturalist, Studies on Neotropical Fauna and Environment, Systematic Entomology, Systematic Parasitology, The Auk, Trends in Parasitology, Western North American Naturalist, Zoonoses and Public Health, Zootaxa

MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS

American Society of Mammalogists
Member: Board of Directors, 2003-2006
Member: Systematics Collections Committee, 2002-present

Kentucky Academy of Science

Southeastern Society of Parasitologists

Southwestern Association of Naturalists
Member: Board of Governors, Class of 2007 (2004-2007)
Chair: President's Student Advisory Committee, 2002-2004

Texas Tech University Association of Biologists
President: 2000-2001

PROFESSIONAL COMMITTEES

Systematics Collections Committee; American Society of Mammalogists, 2002-present

Ambassador; American Society of Mammalogists, 2002-present

Board of Governors; Southwestern Association of Naturalists, Class of 2007

Board of Directors; American Society of Mammalogists, 2003-2006

President's Student Advisory Committee (Chair); Southwestern Association of Naturalists, 2002-2004
 Faculty Relations Committee; Texas Tech University Association of Biologists, 2001-2004
 Faculty Search Committee; Mammalogy, Texas Tech University, 2002 (hired Dr. Jorge Salazar-Bravo)

LECTURES/SYMPOSIUM PRESENTATIONS

Austin Peay State University, Invited Research Seminar Series, Clarksville, TN, April 2019.
 Western Michigan University, Invited Research Seminar Series, Kalamazoo, MI, April 2013.
 Southern Illinois University, Invited Research Seminar Series, Carbondale, IL, November 2011.
 Universiti Malaysia, Sarawak, UNIMAS-FMNH Symposium, Kuching, Sarawak, Malaysia, December 2010.
 Leibniz Institute for Zoo and Wildlife Research, Plenary Lecture: 2nd International Berlin Bat Meeting, Bat Biology and Infectious Diseases, Berlin, Germany, February 2010.
 Western Kentucky University, Invited Seminar Series, Bowling Green, KY, February 2009
 University of Illinois - Chicago, Invited Seminar Series, Chicago, IL, April 2008
 Indiana State University, Invited Seminar Series, Terre Haute, IN, November 2007
 Entomological Society of America, Special Symposium: Different Ways to Hitch a Ride: Phylogenetic Perspectives on Ectoparasitism (Co-Chaired with Katharina Dittmar), Indianapolis, IN, December 2006
 Field Museum of Natural History, Regular Seminar Series, Chicago, IL, March 2006
 Texas Tech University, Dissertation Defense Seminar, Lubbock, TX, May 2005
 Museo de Zoología, Pontificia Universidad Católica del Ecuador, Quito, Ecuador, June 2004
 Texas Tech University, Graduate Research Forum, Lubbock, TX, Spring 2003
 Texas Tech University - Junction Campus, Natural History of Aquatic Habitats (Dr. Kent Rylander), Junction, TX, Summer 2002
 Texas Tech University, Graduate Research Forum, Lubbock, TX, Spring 2002
 Texas Tech University, Graduate Research Forum, Lubbock, TX, Spring 2001
 University of Central Arkansas, Student Research Seminar, Conway, AR, Spring 1997
 University of Central Arkansas, Student Research Symposium, Conway, AR, Spring 1997
 Guest Lecturer; Biology for General Education, General Zoology, General Ecology, Conway, AR, 1996-1999
 University of Central Arkansas, Student Research Forum, Conway, AR, Fall 1996

SYNERGISTIC ACTIVITIES AND PROFESSIONAL DEVELOPMENT

Panelist; WKU CITL New Faculty Session: Engaging in Service (with Dr. Rob Hale, Associate Provost for Faculty & Academic Excellence); 11 February 2022
 Speaker; The seed of science is wonder: Darwin and Natural Selection, Unitarian Universalist Church of Bowling Green, 12 February 2017
 Participant; Tenure and Promotion Policies Professional Development (with Dr. Richard Miller, Vice Provost for Policies and Personnel); 7 February 2013
 Participant; Ogden College Professional Development - undergraduate and graduate

theses and professional writing; Fall 2012.
 Student; Western Kentucky University, Online Teaching Summer Camp (Distance Learning, FaCet, DELO); 16-20 July 2012.
 Guest Speaker; Western Kentucky University, Mary Lohr's Summer "VAMPY" Genetics class, 4 July 2012.
 Guest Speaker; Western Kentucky University, Cheryl Davis' Parasitology class, Fall, 2010.
 Guest Speaker; Western Kentucky University, Michael Stokes' Mammalogy class, Fall, 2010.
 Guest Speaker; Loyola University-Chicago, IL, parasitology class trip, Field Museum, Chicago, IL, 2007-2008.
 Guest Speaker; Danville Community College, IL, biology class trip, Field Museum, Chicago, IL, 2007, 2008
 Member; Field Museum Cryogenics Storage Committee, Chicago, IL, 2005-present
 Member; Field Museum Cleanup Committee, Chicago, IL, 2005-present
 Judge; South Plains Regional Science and Engineering Fair, Lubbock, TX, 2004
 Judge; All Saints Episcopal School Science Fair, Lubbock, TX, 2001
 Instructor; Audubon Society Ecology Camp, Hot Springs, AR, 1999
 Guest Speaker; Zoology Exercise, Marguerite Van Elementary, Conway, AR, 1997
 Judge; Conway High School Science Fair, Conway, AR, 1997
 Volunteer; Special Olympics, Conway, AR, 1996, 1997
 Guest Speaker; Student Enrichment Day, Sallie Cone Elementary, 1996, 1997
 Guest Speaker; High School Workshop, Univ. of Central AR, 1995
 Research Technician; Bureau of Land Management, Salem, OR, Summer, 1993
 Environmental Education Intern; AuSable Institute of Environmental Studies, Mancelona, MI, Winter, 1992-1993

FIELD EXPERIENCE

Panama: Chiriqui and Darien (2023; 3 weeks)
 Kenya: Marsabit (2015; 3 weeks)
 South Africa: (2014; 3 weeks)
 Costa Rica: Zurqui (2013; 1 week)
 Ecuador: Amazonia (2013; 3 weeks)
 Kenya: numerous localities (2013; 3 weeks)
 Costa Rica: Monteverde (2012; 1 week)
 Kenya: numerous localities (2012; 2 weeks)
 Kenya: numerous localities (2011; 4 weeks)
 Ecuador: Amazonia (2011; 3 weeks)
 Malaysian Borneo (2010; 10 days)
 Puerto Rico and Vieques (2009; 2 weeks)
 Puerto Rico and Vieques (2008; 2 weeks)
 Brazil: Ilha Grande, Rio de Janeiro state (2007; 1 month)
 Vietnam (2007; 1 week)
 Thailand (2007; 1 week)
 Kenya: Arabuko-Sokoke Forest (2006; 3 weeks)
 Dominican Republic: numerous localities (2005; 3 weeks)

Ecuador: numerous localities (2004; 2 months)
 Panama: Barro Colorado Island (2003; 10 days)
 St. John: numerous localities (2003; 2 weeks)
 Vieques: numerous localities (2003; 1 week)
 Puerto Rico: Luquillo Experimental Forest (2003; 1 week)
 Mexico: Colima (2002-2003; 2 weeks)
 Peru: near Iquitos (2002; 1 month)
 Peru: Manu Biosphere Reserve (2001; 2.5 months)
 Honduras: numerous localities (2001; 3 weeks)
 Peru: Manu Biosphere Reserve (2000; 1 month)
 Mexico: numerous localities (1999; 1 month)
 Paraguay: numerous localities (1998; 4 months)
 Brazil: near Manaus (1997; 1 week)
 Brazil: Distrito Federal (1997; 1 month)
 Brazil: near Rio de Janeiro (1997; 2 weeks)
 Puerto Rico: numerous localities (1994; 3 months)
 United States: numerous localities (1988 – present)

CONTRIBUTED PRESENTATIONS (*indicates student author)

- *Aimée Blondelle, A., F. C. De Wint, **C. W. Dick**, T. Hiller, M. Hughes, T. E. Martin, L. Mortier, *M. Taylor, W. Van Caenegem, *A. M. Willis, and D. Haelewaters. 2024. Resolving the taxonomy of ectobiont fungi involved in a multitrophic symbiosis with bats and parasitic flies. 12th International Mycological Congress, Maastricht, Netherlands.
- *Hrycyna, G, G. Gracioli, **C. W. Dick**, and C. J. B. de Carvalho. 2023. New data on *Basilia handleyi* Guimarães (Nycteribiidae), after 57 years. 10th International Congress of Dipterology, Reno, NV.
- *Lira-Olguin, A. Z, **C. W. Dick**, R. Acosta-Gutiérrez. 2023. Taxonomic revision of the *Megistopoda* Macquart, 1852 (Diptera: Streblidae) parasites of the New World Leaf-Nosed bats (Chiroptera). 10th International Congress of Dipterology, Reno, NV.
- *Willis, A., A. Blondelle, W. Van Caenegem, **C. W. Dick**, and D. Haelewaters. 2023. Host associations of Laboulbeniales with bat flies (Diptera, Streblidae): Overview of current research and pressing questions. 10th Congress of the Latin American Society of Mycology, Panama City, Panama.
- *Lira-Olguin, A., R. Acosta-Gutierrez, and **C. W. Dick**. 2022. Taxonomic revision of the genus *Megistopoda* Macquart, 1852 (Diptera: Streblidae) and preliminary results of their species delimitation. 97th Annual Meeting of the American Society of Parasitologists, College Station, TX.
- *Lira-Olguin, A., **C. W. Dick**, and R. Acosta-Gutierrez. 2022. Taxonomic revision of the genus *Megistopoda* parasites of New World leaf-nosed bats (Chiroptera: Phyllostomidae). 101st Annual Meeting of the American Society of Mammalogists, Tucson, AZ.
- *Lira-Olguin, A., **C. W. Dick**, and R. Acosta-Gutierrez. 2022. Taxonomic revision of the

- genus *Megistopoda* Macquart, 1852 (Diptera: Streblidae) and preliminary results of their species delimitation. Ecological Integration Symposium, Texas A&M University, College Station, TX.
- Dunnum, J. L., R. C. Dowler, **C. W. Dick**, et al. (ASM Systematics Collections Committee). 2017. (Poster) ASM Systematic Collections Committee 2017 Resurvey of the Mammal Collections of the Western Hemisphere. Ninety-seventh annual meeting of the American Society of Mammalogists. Moscow, ID.
- *Haelewaters, D., W. P. Pfliegler, J. C. Camacho, **C. W. Dick**, and D. H. Pfister. 2016. Laboulbeniales on bat flies: independent lineages of host usage. Third Biennial MassMyco, Amherst, MA.
- *Buchholz, M. J., and **C.W. Dick**. 2015. Relationships between ectoparasitic vectors and small mammal reservoirs of *Borrelia burgdorferi* in South Central Kentucky. Annual conference of The Wildlife Society, Winnipeg, Manitoba, Canada.
- Patterson, B.D., P. Webala, **C.W. Dick**, and * Natalia Cortes Delgado. 2015. Steps toward The Bats of Kenya: identification and characterization of *Rhinolophus* (Chiroptera: Rhinolophidae). Forty-sixth annual meeting of the North American Society for Bat Research, Monterey, CA.
- Patterson, B.D., P. Webala, R. Keeru, **C.W. Dick**, and *A. Weber. 2013. Delimiting cryptic species for ‘The Bats of Kenya’ – the genus *Miniopterus* (Miniopteridae). Sixteenth annual International Bat Research Conference. San Jose, Costa Rica.
- *Stamper, E.A., and **C.W. Dick**. 2013. Evaluating host specificity assessments of bat flies (Diptera: Streblidae) from Ecuador. Ninety-third annual meeting of the American Society of Mammalogists. Philadelphia, PA.
- Dsouli, N., **C.W. Dick**, S.M. Goodman, K. Dellagi, and P. Tortosa. 2012. Phylogeny of bat flies: contribution to host associations and phylogeographic origins. EU Research Conference Centre de Recherche et de Veille sur les maladies émergentes dans l’Océan Indien, La Réunion (Indian Ocean), France.
- *Stamper, E.A., *P. Rivera-Parra, and **C.W. Dick**. 2012. Host specificity of Ecuadorian bat flies (Diptera: Streblidae). WKU Research Conference, Bowling Green, KY.
- Dick, C.W.**, *A. Atolagbe, P. Webala, B. Agwanda and B.D. Patterson. 2011. Preliminary survey of the bat flies (Diptera: Streblidae and Nycteribiidae) of Kenya. Joint meeting of the Zoological Society of Southern Africa and the Parasitological Society of Southern Africa. Stellenbosch, South Africa.
- Dick, C.W.**, *A. Atolagbe, P. Webala, B. Agwanda and B.D. Patterson. 2011. Preliminary survey of the bat flies (Diptera: Streblidae and Nycteribiidae) of Kenya. Annual meeting of the Kenya Wildlife Service. Nanyuki, Kenya.
- Dick, C.W.** 2010. Bat flies: Intimate ecological and evolutionary partners of bats. UNIMAS-FMNH Symposium, Universiti of Malaysia. Kuching, Sarawak, Malaysia.
- *Jones, H., and **C.W. Dick**. 2010. Species boundaries and phylogenetic analysis of big-legged bat flies (Diptera: Streblidae), and potential coevolution with leaf-nosed bat hosts.” Ninety-sixth annual meeting of the Kentucky Academy of Science. Bowling Green, KY.
- *Jones, H., and **C.W. Dick**. 2010. Species boundaries and phylogenetic analysis of big-legged bat flies (Diptera: Streblidae), and potential coevolution with leaf-nosed bat hosts. NSF REU Symposium, Western Kentucky University. Bowling Green, KY.
- Dick, C.W.**, *A. Sjodin, K. Dittmar, and B.D. Patterson. 2010. The influence of bat roosts

- on visual reductions in bat fly ectoparasites. Ninetieth annual meeting of the American Society of Mammalogists. Laramie, WY.
- Dittmar, K., **C.W. Dick**, and B.D. Patterson. 2010. Phylogenetic history and convergent evolution of the bat flies (Diptera: Hippoboscoidea: Streblidae & Nycteribiidae). Seventh International Congress of Dipterology. San José, Costa Rica
- Dick, C.W.** 2010. Bat Biology and Infectious Diseases (Plenary Lecture). Second International Berlin Bat Meeting. Leibniz Institute for Zoo and Wildlife Research, Berlin, Germany.
- Dick, C.W.** 2009. Ecology and evolution of bats and their parasites. Second Kentucky Bat Working Group meeting. Frankfort, KY.
- Dick, C.W.**, B.D. Patterson, and K. Dittmar. 2009. Ecology and host associations of ectoparasitic bat flies (Diptera: Streblidae and Nycteribiidae). Tenth International Mammalogical Congress. Mendoza, Argentina.
- Dick, C.W.**, G. Graciolli, and R. Guerrero. 2009. Biodiversity of Neotropical bat flies: patterns and prospects. Tenth International Mammalogical Congress. Mendoza, Argentina.
- Dittmar, K., **C.W. Dick**, M. Gruwell, and B.D. Patterson. 2009. Evolutionary analysis of the Neotropical ectoparasitic bat flies (Streblidae). Tenth International Mammalogical Congress. Mendoza, Argentina.
- Dick, C.W.**, *M.W. Bindokas, and B.D. Patterson. 2009. Sizing up big-legged bat flies: a morphometric approach to species boundaries within the genus *Megistopoda*. Eighty-ninth annual meeting of the American Society of Mammalogists. Fairbanks, AK.
- Dick, C.W.**, and B.D. Patterson. 2008. Males seeking females: anomalous sex-ratio bias in bat parasites (Diptera: Streblidae). Eighty-eighth annual meeting of the American Society of Mammalogists. Brookings, SD.
- Dittmar, K., **C.W. Dick**, B.D. Patterson, and M. Gruwell. 2008. Phylogeny and evolution of bat flies (Streblidae, Nycteribiidae). Eighty-third annual meeting of the American Society of Parasitologists. Arlington, TX.
- Dick, C.W.**, B.D. Patterson, and K. Dittmar. 2007. Bat flies: obligate ectoparasites of bats (Mammalia: Chiroptera). First Annual South-East Asian Bat Research Conference, Phuket, Thailand.
- Dick, C.W.**, B.D. Patterson, and K. Dittmar. 2007. Bat flies: obligate ectoparasites of bats (Mammalia: Chiroptera). Eighty-seventh annual meeting of the American Society of Mammalogists. Albuquerque, NM.
- *Tello, J. S., R.D. Stevens, and **C.W. Dick**. 2007. A test for interspecific competition in bat ectoparasites: patterns of species co-occurrence and density. Eighty-seventh annual meeting of the American Society of Mammalogists. Albuquerque, NM.
- Dick, C.W.**, B.D. Patterson, K. Dittmar, and J. Chavez. 2007. Bat flies: obligate ectoparasites of bats (Mammalia: Chiroptera). Symposium: Avances de la Mastozoología en el Perú. Universidad Nacional Mayor de San Marcos, Lima, Perú.
- *Gardner, S.E., *J.A. White, *S.T. Samoray, and **C.W. Dick**. 2007. The first record of a nycteribiid bat fly, *Basilina boardmani*, in Alabama. Twelfth annual meeting of the Southeastern Bat Diversity Network and Seventeenth colloquium on Conservation of Mammals in the Southeastern United States. Destin, FL.
- Dittmar, K., M.F. Whiting, **C.W. Dick**, and B.D. Patterson. 2006. Comparing Two Ectoparasite Groups: Convergent Trends in Parasite Evolution. Fifty-fourth annual

- meeting of the Entomological Society of America. Indianapolis, IN.
- Dick, C.W.**, B.D. Patterson, K. Dittmar, and M.F. Whiting. 2006. Competition and Coexistence of Neotropical Bat Flies. Fifty-fourth annual meeting of the Entomological Society of America. Indianapolis, IN.
- Dick, C.W.** 2005. Host Specificity of Bat Flies: Effects of Inter-Host Contamination. Eighty-fifth annual meeting of the American Society of Mammalogists. Springfield, MO.
- Carrera, J.P., R.M. Fonseca, D.F. Alvarado, S.F. Burneo, A.D. Brown, C. Carrion, **C.W. Dick**, P.A. Larsen, F.G. Hoffmann, D. Parish, S. Solari, C.J. Phillips, J.S. Tello, and R.J. Baker. 2005. An Approach to Bat Diversity on the West Side of the Ecuadorian Andes: Sowell Expeditions Results. Eighty-fifth annual meeting of the American Society of Mammalogists. Springfield, MO.
- Dick, C.W.** 2004. Biodiversity of Bats and Parasites in Western Ecuador. Annual Reception of the Achievement Rewards for College Scientists (ARCS). Lubbock, TX
- Fonseca, R.M., J.S. Tello, J.P. Carrera, D.F. Alvarado, A.D. Brown, C. Carrión-B, **C.W. Dick**, J. Higginbotham, F. Hoffmann, P.A. Larsen, D. Parish, C.J. Phillips, S. Solari, and R.J. Baker. 2004. Murcielagos del occidente Ecuatoriano: resultados preliminares de las expediciones Sowell (2001 y 2004). Jornadas de Biología, Guayaquil, Ecuador.
- Dick, C.W.** 2004. Ectoparásitos de Murielagos Neotropicales. Invited Presentation: Museo de Zoología, Pontificia Universidad Católica del Ecuador, Quito, Ecuador.
- Dick, C.W.** 2004. Co-occurrence of bat flies on Neotropical bats: a null model analysis. Eighty-fourth annual meeting of the American Society of Mammalogists. Arcata, CA.
- Dick, C.W.** 2004. Co-occurrence of ectoparasites on phyllostomid bats: a null model analysis. Fifty-first annual meeting of the Southwestern Association of Naturalists. San Antonio, TX.
- Dick, C.W.** 2003. Biodiversity and Ecology of Bat Ectoparasites. Annual Reception of the Achievement Rewards for College Scientists (ARCS). Lubbock, TX
- Dick, C.W.** and S.C. Mackinder. 2003. Multi-species associations of bat flies on New World bats: direct experimental evidence for competition. Eighty-third annual meeting of the American Society of Mammalogists. Lubbock, TX.
- Dick, C.W.** and S.C. Mackinder. 2003. Multi-species associations of bat flies on New World bats: direct experimental evidence for competition. Fiftieth annual meeting of the Southwestern Association of Naturalists. Norman, OK.
- McIntyre, N.E., Y-K. Chu, **C.W. Dick**, T. Holsomback, M.A. Houck, C. Jonsson, R.A. Nisbett, R.D. Owen, and R. Walker. 2003. Fine-grained landscape epidemiology: a case study with Bayou *Hantavirus*. Eighteenth annual meeting of the International Association for Landscape Ecology. Banff, Alberta, Canada.
- Dick, C.W.**, B.D. Patterson, J.B. Bender, M.D. Dean, R.L. Wenzel, and R.D. Owen. 2003. Roosting habits of Neotropical bats affect prevalence, intensity and host specificity of parasitic bat flies. Texas Tech University Association of Biologist's Graduate Research Forum. Lubbock, TX.
- Dick, C.W.**, B.D. Patterson, J.B. Bender, M.D. Dean, R.L. Wenzel, and R.D. Owen. 2003. Roosting habits of Neotropical bats affect prevalence, intensity and host specificity of parasitic bat flies. Twenty-first annual meeting of the Texas Society of

- Mammalogists. Junction, TX. (winner of the “Robert L. Packard Award” for best overall research paper)
- Dick, C.W.**, B.D. Patterson, J.B. Bender, M.D. Dean and R.L. Wenzel. 2002. Roosting habits of Neotropical bats affect prevalence, intensity and host specificity of parasitic bat flies. Eighty-second annual meeting of the American Society of Mammalogists. Lake Charles, LA.
- Dick, C.W.**, B.D. Patterson, M.D. Dean, R.L. Wenzel and R.D. Owen. 2002. Host specificity of Neotropical bat flies: the effects of sample size and cross-host contamination. Forty-ninth annual meeting of the Southwestern Association of Naturalists. Cuernavaca, Mexico.
- Dick, C.W.**, B.D. Patterson, M.D. Dean, R.L. Wenzel and R.D. Owen. 2002. Host specificity of Neotropical bat flies: the effects of sample size and parasite vagility. Texas Tech University Association of Biologist’s Graduate Research Forum. Lubbock, TX.
- Dick, C.W.** 2001. The polyctenid batbugs (Hemiptera: Polyctenidae) of Paraguay: a morphometric assessment of species boundaries and host associations. Eighty-first annual meeting of the American Society of Mammalogists. Missoula, MT.
- Dick, C.W.** 2001. The polyctenid batbugs (Hemiptera: Polyctenidae) of Paraguay: a morphometric assessment of species boundaries and host associations. Forty-eighth annual meeting of the Southwestern Association of Naturalists. Fort Hays, KS.
- Dick, C.W.** 2001. The polyctenid batbugs (Hemiptera: Polyctenidae) of Paraguay: a morphometric assessment of species boundaries and host associations. Texas Tech University Association of Biologist’s Graduate Research Forum. Lubbock, TX.
- Dick, C.W.** 2000. The streblid batflies of Paraguay (Diptera Calypteratae: Pupipara): a preliminary assessment of species and host associations. Forty-seventh annual meeting of the Southwestern Association of Naturalists. Denton, TX.
- Dick, C.W.** and M.L. Mathis. 1997. Comparison of the macroinvertebrate structure of four first-order tributaries of the Buffalo National River, Arkansas, USA. Forty-fifth annual meeting of the North American Benthological Society. San Marcos, TX.