

## Eric G. Chapman

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### Education

- Ph.D. Evolutionary Ecology, Kent State University:** Graduated December 2008  
**Dissertation Title:** Bayesian phylogenetics of snail-killing flies (Diptera: Sciomyzidae) and freshwater mussels (Bivalvia: Unionidae): implications of parallel evolution, feeding group structure and molecular evolution.  
**Dissertation Advisor:** Dr. Walter R. Hoeh
- M.S. Ecology, Kent State University, Kent, Ohio:** Graduated May 2000  
**Thesis Title:** A survey of the aquatic beetles (Insecta: Coleoptera) of northeastern Ohio (Haliplidae, Dytiscidae, Noteridae, Gyrinidae, Hydrophilidae, Psephenidae, Dryopidae, Elmidae, Ptilodactylidae).  
**Thesis Advisor:** Dr. Benjamin A. Foote
- B.S. Biology, Kent State University, Kent, Ohio:** Graduated May 1994  
**Undergraduate Research Title:** A survey of the aquatic insects of Nimishillen Creek, Stark County, Ohio.  
**Academic Advisor:** Dr. Benjamin A. Foote
- iDigBio Dried Insect Digitization Workshop** at the Field Museum of Natural History, April 24-25, 2013.
- North American Cladistics Workshop** at The Ohio State University, July 15-22, 2007.
- UC Davis Workshop in Applied Phylogenetics** at Bodega Bay Marine Laboratory, Bodega Bay, CA: May 7-14, 2005.
- Arctic & Boreal Entomology Course:** University of Guelph, at the Churchill Northern Studies Center, Churchill, MB, August 9-24, 2003.

### Certification

**Certified Pesticide Applicator** (non-commercial): certified 4/2013, expires 12/31/2015

### Professional Experience

- Research Analyst, Collections Manager, University of Kentucky:** October 2012-present  
Responsibilities include generation of molecular data (DNA extraction, PCR and sequencing), phylogenetic analysis, database management, Insect specimen collection and curation, and facilitating specimen loans. I am also responsible for care of and access to the UKY general insect collection.
- Post-Doctoral Scholar, University of Kentucky:** January 2009-October 2012  
**Post-Doctoral Advisor:** Dr. James D. Harwood  
**Research:** The use of DNA-based molecular gut-content analyses to study predator-prey relationships in alfalfa, coffee, corn, potato, and wheat agroecosystems to identify important predators of crop pests.
- Molecular Ecologist/Systematist** (2000-present)  
Isolation, amplification, purification, and sequencing mitochondrial and nuclear DNA, and conducting phylogenetic and other related statistical analyses using a variety of software packages (including *BEAST*, *CONSEL*, *Discrete*, *Garli*, *HyPhy*, *MacClade*, *Mesquite*, *Modeltest*,

*MrBayes*, *Multistate*, *PAML*, *PAUP\** and *RAxML*) to (1) discover evolutionary relationships among a variety of animal taxa (2) to infer evolutionary phenomena using phylogenetic trees and (3) discover food web structure by sequencing prey DNA isolated from the gut contents of predators.

#### **Aquatic Beetle Taxonomist** (1994-present)

Began with my master's thesis, and culminated in the identification of over 70,000 aquatic beetles collected mostly in Ohio for The Ohio Biological Survey. I have identified aquatic beetles in professional collections including nine institutions in the Ohio area. I maintain an ever-growing personal database of aquatic beetles collected in Ohio (over 16,000 records; 70,000 specimens) and a personal collection of aquatic beetles of over 300 species.

#### **Field Assistant for the Ohio Biological Survey** (1997-2001)

Responsibilities included selecting multiple sites each year in various watersheds in northern Ohio and black light trapping monthly from May to October. Other duties have included collecting midges (Diptera: Chironomidae) along the Ohio River from Cincinnati to Cairo, IL; using aquatic Coleoptera and Hemiptera to characterize ponds at a reclaimed strip mine converted into an exotic animal park, and collecting winter stoneflies (Plecoptera).

#### **Field Assistant for the Ohio Odonata Society** (1997)

Collected and identified over 200 adult dragonfly and damselfly records for the survey. After my field work was through, I was invited to join the team of authors culminating in the publication of the book "The dragonflies and damselflies of Ohio."

#### **Research Assistant: Cleveland Museum of Natural History** (1993-1997)

Began as an intern and culminated in 5 years of field and taxonomic work on Lepidoptera (moths & butterflies). Responsibilities included black light trapping, identification and curation of moths. During my tenure, ~135,000 specimens were added to the CMNH voucher collection.

#### **Undergraduate Research: A Survey of the Riffle Insects of Nimishillen Creek, Stark County, Ohio** (1991-1993)

Collected and identified 64,105 insect larvae to genus from 16 sites on the major stream system (Nimishillen Creek) in Canton, Ohio. Calculated biotic index to determine water quality.

### **Teaching Experience**

- Lecture Courses:** **Insect Taxonomy** (graduate-level course for Entomology majors): University of Kentucky; Fall 2014.  
**Elements of Genetics** (junior-level course for Biology majors): Kent State University; Spring, 2006 & 2007.  
**Ecology Evolution and Society** (general biology course for non-biology majors): Kent State University; Spring, 2004.
- Guest Lectures:** **Insect Taxonomy:** University of Kentucky: Fall, 2012. Graduate-level course. Guest lectured four times on Lepidoptera, Trichoptera and Coleoptera.  
**Phylogenetic Systematics:** University of Kentucky: Spring semester 2010, 2012. Graduate-level course. Gave two 1.5 hour lectures on Bayesian (BI) and maximum likelihood (ML) phylogenetic theory, and two 1.5 hour practical labs on running BI and ML phylogenetic analyses (using MrBayes, Garli and RAxML).  
**Insect Ecology:** University of Kentucky: Fall, 2010. Graduate-level course. Gave one 1.5 hour lecture on the utility of phylogenetic trees in ecological studies.  
**Evolution:** Kent State University: Fall, 2007. Undergraduate/graduate level course of ~100 students. Nine 50-minute lectures on parsimony (tree-building and character optimization), species concepts and natural selection.

## Graduate Teaching Assistant, Kent State University (1994-1998; 2001-2007)

**Entomology Lab** (Fall 2002; 2005; 2006): Responsibilities included preparing and giving lab lectures, lab practical set-up and evaluation, and preparing the labs.

**Invertebrate Zoology Lab** (Fall 1994-1998, Spring 2001-2003): Responsibilities included preparing and giving lab lectures, exam set-up and evaluation, and coordinating and preparing the labs.

**Wetlands Lab** (Fall 2003): Responsibilities included preparing and giving lab lectures, lab practical set-up and evaluation, and preparing the labs. I also guest lectured.

**Microbiology Lab** (Spring 1995-1998, Spring 2002, 2003): Responsibilities included preparing and giving lab lectures including experiment demonstrations, and exam set-up and evaluation.

**Stream Biology Lab** (Spring 1996): Responsibilities included preparing the lab and helping the students with taxonomic assignments.

**Genetics Lecture Aid** (Fall 1995, 1996): Responsibilities included helping students with assignments and grading exams.

## Guitar Instructor (1987-1993):

Instructed individual half- and one-hour lessons in electric and classical guitar to 10-20 students per week for 6 years at Gulia Music Studios & Performance Music (Canton, Ohio).

## Grants

**Title:** Applying next generation sequencing technology to estimate biodiversity: A new tool to accurately, rapidly and efficiently solve an old problem.

**Funding Agency:** Kentucky Science and Engineering Foundation

**Amount:** \$29,982.00 (submitted January 2014, **funded June 2014**)

**Title:** Impact of predator biodiversity on pest-suppression in Kentucky wheat: a denaturing gradient gel electrophoresis approach.

**Funding Agency:** Kentucky Science and Engineering Foundation

**Amount:** \$80,000.00 (submitted January 2010, **funded June 2010**)

Note: While my name was not on this grant as a co-PI, I was the named post-doc and I wrote most of the proposal and developed the methods.

**Title:** Impact of predator biodiversity on pest-suppression in Kentucky wheat: a denaturing gradient gel electrophoresis approach.

**Funding Agency:** Kentucky Science and Engineering Foundation

**Amount:** \$100,000.00 (submitted January 2009, not funded)

**Title:** Evolution of larval feeding behaviors in the snail-killing fly genus *Tetanocera* (Diptera: Sciomyzidae).

**Funding Agency:** National Science Foundation Dissertation Improvement Grant

**Amount:** \$12,000.00: submitted November 2004, recommended for funding "fund if possible," but ultimately not funded.

**Title:** Systematics of the snail-killing flies in the genus *Tetanocera* (Diptera: Sciomyzidae): Evolution of larval feeding strategies.

**Funding Agency:** National Science Foundation Dissertation Improvement Grant

**Amount:** \$12,000.00 (submitted November 2003, not funded).

**Title:** Evolutionary relationships among members of the snail-killing fly family Sciomyzidae, tribe Tetanocerini: Evolution of larval feeding strategies in the genus *Tetanocera*.

**Funding Agency:** KSU Graduate Student Senate, Submitted Feb. 2003

**Amount:** \$652.00. **Funded.**

**Title:** A survey of the crawling water beetles (Coleoptera: Haliplidae) of Ohio.

**Funding Agency:** Ohio Biological Survey Small Grants Program. Submitted Jan. 1997, 1998, 1999  
**Amount:** \$750.00 (**Funded:** three grants of \$250.00 over three years).

**Title:** A survey of the aquatic Coleoptera of northeastern Ohio.

**Funding Agency:** Ohio Biological Survey Institutional Grants Program.

Submitted Jan. 1995, 1996

**Amount:** \$1200.00 (**Funded:** two grants of \$600.00 over two years).

## Publications

*peer-reviewed*

**Chapman EG**, Messing RH, Harwood JD. 2015. Determining the origin of the coffee berry borer invasion of Hawaii. *Annals of the Entomological Society of America*. Advance access published 14 April 2015.

Pook V, **Chapman EG**, Janzen D, Hallwachs W, Smith M, Sharkey MJ. 2015. Polydnavirus gene provides accurate identification of species in the genus *Hyposoter* (Hymenoptera: Ichneumonidae). *Insect Conservation and Diversity*. (Accepted Jan 5, 2015).

Welch KD, Schofield M, **Chapman EG**, Harwood JD. (2014). "Comparing rates of springtail predation by web-building spiders using Bayesian inference. *Molecular Ecology* 23, 3814–3825.

van Achterberg C, Sharkey MJ and **Chapman EG**. 2014. Revision of the genus *Euagathis* Szépligeti (Hymenoptera, Braconidae, Agathidinae) from Thailand, with description of three new species. *Journal of Hymenoptera Research* 36: 1-25.

Leavengood JM, **Chapman EG**. 2014. On the southeastern distributions of *Stictoleptura canadensis* (Olivier), *Leptura subhamata* Randall (Coleoptera: Cerambycidae: Lepturinae) and *Heterosternuta cocheconis* (Fall) (Coleoptera: Dytiscidae: Hydroporinae). *Insecta Mundi* 0334: 1-3.

Gunter NL, Leavengood Jr. JM, Bartlett JS, **Chapman EG**, Cameron SL. 2013. A molecular phylogeny of the checkered beetles and a description of *Epiclininae subfam. nov.* (Coleoptera: Cleroidea: Cleridae). *Systematic Entomology*.

**Chapman EG**, Schmidt JM, Welch KD, Harwood JD. 2013. Molecular evidence for dietary selectivity and pest suppression potential in an epigeal spider community in winter wheat. *Biological Control* 65:72-86.

**Chapman EG**, Przhiboro AA, Harwood JD, Foote BA, Hoeh WR. 2012. Widespread and persistent invasions of terrestrial habitats coincident with larval feeding behavioral transitions during snail-killing fly evolution (Diptera: Sciomyzidae). *BMC Evolutionary Biology* 12:175.

Opatovsky I, **Chapman EG**, Weintraub PG, Lubin Y, Harwood JD. 2012. Molecular characterization of the differential role of immigrant and agrobiont generalist predators in pest suppression. *Biological Control* 63:25–30.

Kerzicnik LM, **Chapman EG**, Harwood JD, Pears FB, Cushing PE. 2012. Molecular characterization of Russian wheat aphid consumption by spiders in winter wheat. *Journal of Arachnology* 40:71-77.

Dodd LE, **Chapman EG**, Harwood JD, Lacki MJ, Rieseke LK. 2012. Identification of prey of *Myotis septentrionalis* using DNA-based techniques. *Journal of Mammalogy* 93:1119-1128.

Doucet-Beaupré H, Blier PU, **Chapman EG**, Piontkivska H, Dufresne F, Sietman BE, Mulcrone RS, Hoeh WR. 2012. *Pyganodon* (bivalvia: unionoida: unionidae) phylogenetics: a male- and female-transmitted mtDNA perspective. *Molecular Phylogenetics and Evolution* 63:430–444.

Murphy WL, Knutson LV, **Chapman EG**, Mc Donnell RJ, Williams CD, Foote BA, Vala J-C. 2011. Key aspects of the biology of snail-killing Sciomyzidae flies. *Annual Review of Entomology* 57:425–47.

- Breton S, Stewart DT, Shepardson S, Trdan RJ, Bogan AE, **Chapman EG**, Ruminas AJ, Piontkivska H, Hoeh WR. 2010. Novel protein genes in animal mtDNA: a new sex determination system in freshwater mussels (Bivalvia: Unionoida)? *Molecular Biology and Evolution* 28:1645-1659.
- Eskelson MJ, **Chapman EG**, Archbold DD, Obrycki JJ, Harwood JD. 2011. Molecular identification of predation by carabid beetles on exotic and native slugs in a strawberry agroecosystem. *Biological Control* 56:245-253.
- Aguilar Julio C, **Chapman EG**, Rios S. 2010. Chapter II: Environments: Collecting in aquatic and semiaquatic environments. Pp. 35-54 In *Methods for Catching beetles*. Naturalia Scientific Edition, Montevideo-Asunción 320 pp.
- Chapman EG**, Romero SA, Harwood JD. 2010. Maximizing collection and minimizing risk: does vacuum suction sampling increase the likelihood for misinterpretation of food web connections? *Molecular Ecology Resources* 10: 1023–10.
- Doucet-Beaupré H, Breton S, **Chapman EG**, Blier PU, Bogan AE, Stewart DT, Hoeh WR. 2010. Mitochondrial phylogenomics of the Bivalvia (Mollusca): Searching for the origin and mitogenomic correlates of doubly uniparental inheritance of mtDNA. *BMC Evolutionary Biology* 10:50.
- Jaramillo J, **Chapman EG**, Vega FE, Harwood JD. 2010. Molecular diagnosis of a previously unreported predator-prey association in coffee: *Karnyothrips flavipes* Jones (Thysanoptera: Phlaeothripidae) predation on the coffee berry borer. *Naturwissenschaften* 97(3):291-298.
- Hoeh WR, Bogan AE, Heard WH, **Chapman EG**. 2009. Palaeoheterodont phylogeny, character evolution, diversity and phylogenetic classification: a reflection on methods of analysis. *Malacologia* 51(2): 307-317.
- Weeks SC, Rogers DC, Senyo D, **Chapman EG**, Hoeh WR. 2009. Evolutionary transitions among dioecy, androdioecy, and hermaphroditism in limnadiid clam shrimp (Branchiopoda: Spinicaudata). *Journal of Evolutionary Biology* 22:1781–1799.
- Chapman EG**, Piontkivska H, Walker JM, Stewart DT, Curole JP, Hoeh WR. 2008. Extreme primary and secondary protein structure variability in the chimeric male-transmitted cytochrome c oxidase subunit II protein in freshwater mussels: Evidence for an elevated amino acid substitution rate in the face of domain-specific purifying selection. *BMC Evolutionary Biology* 8: 165.
- Chapman EG**, Gordon ME, Walker JM, Lang BK, Campbell DC, Watters GT, Curole JP, Piontkivska H, Hoeh WR. 2008. Evolutionary relationships of *Popenaias popeii* and the early evolution of lampsiline bivalves (Unionidae): Phylogenetic analyses of DNA and amino acid sequences from F and M mitochondrial genomes. *Malacologia* 50(1-2):303-318.
- Chakrabarti R, Walker JM, **Chapman EG**, Shepardson SP, Trdan RJ, Curole JP, Watters GT, Stewart DT, Vijayaraghavan S, Hoeh WR. 2007. Reproductive function for a C-terminus extended, male-transmitted cytochrome c oxidase subunit II protein expressed in both spermatozoa and eggs. *FEBS Letters* 581:213-5219.
- Williams RN, **Chapman EG**, Ebert TA, Hartzler DM. 2007. Aquatic beetles in the Ravenna Training and Logistics Site of northeastern Ohio. *Coleopterists Bulletin* 61(1):41-55.
- Chapman EG**, Foote BA, Malukiewicz J, Hoeh WR. 2006. Parallel evolution of larval morphology and habitat in the snail-killing fly genus *Tetanocera*. *Journal of Evolutionary Biology* 19(2006):1459-1474.

- Hoeh WR, Smallwood ND, Senyo DM, **Chapman EG**, Weeks SC. 2006. Evaluating the monophyly of *Eulimnadia* and the Limnadiidae (Branchiopoda: Spinicaudata) using DNA sequences. *Journal of crustacean Biology* 26(2):182-192.
- Walker JM, Curole JP, Wade DE, **Chapman EG**, Bogan AE, Waters GT, Hoeh WR. 2006. Taxonomic distribution and phylogenetic utility of gender-associated mitochondrial genomes in the Unionoidea (Bivalvia). *Malacologia* 48(1-2):265-282.
- Chordas SW III, **Chapman EG**. 2005. First Ontario, Canada record of *Hesperocorixa lobata* (Hemiptera: Corixidae). *Great Lakes Entomologist* 38(3):209-210.
- Chordas SW III, Robison HW, **Chapman EG**, Crump BG, Kovarik PW. 2005. Fifty-four state records of true bugs (Hemiptera: Heteroptera) from Arkansas. *Journal of the Arkansas academy of Science* 59(2005):43-50.
- Chordas SW III, Hudson PL, **Chapman EG**. 2004. Additions to the aquatic Diptera (Chaoboridae, Chironomidae, Culicidae, Tabanidae, Tipulidae) fauna of the White River National Wildlife Refuge, Arkansas. *Journal of the Arkansas academy of Science* 58(2004):37-45.
- Chordas SW III, **Chapman EG**, Hudson PL, Stewart RL Jr., Chrisinski M. 2002. New Midwestern state records of aquatic Hemiptera (Corixidae, Notonectidae). *Entomological News* 113(5):310-314.
- Glotzhober RC, **Chapman EG**. 2003. Second Ohio location for two Odonata (*Nannothemis bella* and *Ladona julia*) discovered at Singer Lake Bog, Summit County. *Great Lakes Entomologist* 34(2):63-66.
- Chapman EG**, Restifo RA. 2002. Chapter 17: The Libellulidae (Skimmers) In: Glotzhober RC & McShaffrey D, eds., *The Dragonflies and Damselflies of Ohio*. Ohio Biological Survey New Series Volume 14, Number 2: ix + 364 pp.
- Chapman EG**. 1999. First record of *Dorocordulia libera* (Odonata: Corduliidae) in Ohio in 75 years. *Great Lakes Entomologist* 32(4):239-241.
- Chapman EG**, Chordas SW III, Glotzhober RC. 1999. Aberrant wing pigmentation in *Libellula luctuosa* (Odonata: Libellulidae) from Ohio. *Great Lakes Entomologist* 32(4):243-246.
- Chordas SW III, **Chapman EG**. 1999. Rediscovery of the water boatman *Sigara signata* (Hemiptera: Corixidae) in Ohio with brief notes on habitat and distribution. *Ohio Biological Survey Notes* 2:35-37.
- Chapman EG**. 1998. Aquatic beetles (Insecta: Coleoptera) of northeastern Ohio (Haliplidae, Dytiscidae, Noteridae, Gyrinidae, Hydrophilidae, Psephenidae, Dryopidae, Elmidae, Ptilodactylidae). *Ohio Biological Survey Miscellaneous Contribution No 4*. vi + 117 pp.
- Keiper JB, **Chapman EG**, Foote BA. 1997. Midge Larvae (Diptera: Chironomidae) as indicators of postmortem submersion interval of carcasses in a woodland stream: a preliminary report. *Journal of Forensic Sciences* 42(6):1074-1079.

## Book Reviews

- Chapman EG. 2012. Book Review - *Biology of Snail-Killing Sciomyzidae Flies*. *American Entomologist* 58.

## Publications

### *Non-peer Reviewed*

- Adams MK, **Chapman EG**, Harwood JD. 2010. Molecular identification of interaction pathways between carabid beetles and slugs in alfalfa. Meeting of the Slug and Snail subgroup of the International Organization for Biological Control, Conference Proceedings.
- Chapman EG**, Jaramillo J, Vega FE, Harwood JD. 2009. Biological control of coffee borer: the role of DNA-based gut-content analysis in assessment of predation. *Third International*

Symposium for the Biological Control of Arthropods, Conference Proceedings, 485-494.

**Chapman EG**, Harwood JD. 2008. Using Snail-killing fly larvae as biological control agents of invasive slugs. Newsletter of the International Organization for Biological Control of Noxious Plants and Animals – Nearctic Regional Section. Volume 30(3): page 5.

Chordas SW III, **Chapman EG**. 1998. Some fish have high hopes! The Dragonflyer (Newsletter of the Ohio Odonata Society). Volume 8(2): page 1.

**Chapman EG**. 1997. A weekend with *Anax longipes*. The Dragonflyer (Newsletter of the Ohio Odonata Society). Volume 7(2): page 1.

## Professional Presentations

Tucker EM, **Chapman EG**, Sharkey MJ. 2014. Species recognition and delimitation of *Cremnops* (Hymenoptera: Braconidae: Agathidinae) incorporating a mini-barcode region of COI. Poster presentation: 8th International congress of Hymenopterists. July 20-25, 2014, Cusco, Peru.

Schmidt JM, **Chapman EG**, Lundgren JG, Harwood JD. 2013. Direct and indirect complexity of higher level trophic interactions in a winter wheat argoecosystem. Oral presentation: 2nd International Symposium on the Molecular Detection of Trophic Interactions. May 13-17, Lexington, Kentucky.

Welch KD, Schofield MR, **Chapman EG**, Harwood JD. 2013. Estimation of predation rates from molecular gut-content assays using Bayesian inference. Oral presentation: 2nd International Symposium on the Molecular Detection of Trophic Interactions. May 13-17, Lexington, Kentucky.

**Chapman EG**, Lynch CA, Harwood JD, Snyder WW. 2012. Molecular characterization of the feeding habits of a predatory insect community in Washington potatoes. Oral presentation: Annual Meeting of the Entomological Society of America. November 11-14, Knoxville, Tennessee.

Lynch CA, **Chapman EG**, Snyder WW, Harwood JD. 2012. Manipulation of *Myzus persicae*, green peach aphid, and *Leptinotarsa decemlineata*, Colorado potato beetle, to determine predator distribution in potatoes. Oral presentation: Annual Meeting of the Entomological Society of America. November 11-14, Knoxville, Tennessee.

Leavengood JM, Sharkey MJ, **Chapman EG**. 2012. Triaging the *Phyllobaenus* from “*Phyllobaenus*”: A preliminary assessment of the New World Hydnocerini (Coleoptera: Cleridae: Hydnocerinae). Oral presentation: Annual Meeting of the Entomological Society of America. November 11-14, Knoxville, Tennessee.

**Chapman EG**, Schmidt JM, Welch KD, Harwood JD. 2012. Molecular evidence for pest suppression potential and dietary selectivity in an epigeal spider community in winter wheat. Oral Presentation: Annual Meeting of the American Arachnological Society. July 20-24, Green Bay, Wisconsin.

Lynch CA, Snyder WW, **Chapman EG**, Harwood JD. 2012. Manipulation of *Myzus persicae*, green peach aphid, and *Leptinotarsa decemlineata*, Colorado potato beetle, to determine predator distribution in potatoes. Annual meeting of the Pacific Branch of the Entomological Society of America. March 25-28, Portland, Oregon.

**Chapman EG**, Snyder GB, Harwood JD, Snyder WD. 2011. Molecular evidence for a diversified diet of two hemipteran predators in Washington potatoes. Oral presentation: Annual Meeting of the Entomological Society of America. November 13-16, Reno, Nevada.

- Leavengood JM, **Chapman EG**, Sharkey MJ. 2011. Molecules versus morphology: do five genetic loci tell the same story about checkered beetles (Coleoptera: Cleridae) as morphology? Oral presentation: Annual Meeting of the Entomological Society of America. November 13-16, Reno, Nevada.
- Peterson JA, Johansen KJ, **Chapman EG**, Harwood JD. 2011. The role of non-prey food resources in generalist predator food webs. Oral presentation: Annual Meeting of the Entomological Society of America. November 13-16, Reno, Nevada.
- Lynch CA, Snyder WE, **Chapman EG**, Harwood JD. 2011. Manipulation of *Myzus persicae*, green peach aphid, and *Leptinotarsa decemlineata*, Colorado potato beetle, in potatoes to determine predator food preference. Oral presentation: Annual Meeting of the Entomological Society of America. November 13-16, Reno, Nevada.
- Luong LT, **Chapman EG**, Harwood JD, Hudson PJ. 2011. Differential exposure and susceptibility to infection revealed through host foraging ecology. Annual Meeting of the Ecological Society of America. August 7-12, Austin, Texas.
- Chapman EG**, Snyder GB, Harwood JD, Snyder WE. 2010. Molecular tracking of generalist predator feeding habits in Washington potatoes. Oral presentation: Annual Meeting of the Entomological Society of America. December 12-15, San Diego, California.
- Welch KD, **Chapman EG**, Harwood JD. 2010. Micro-habitat distribution among web-building spiders: implications for community and food web structure. Oral presentation: Annual Meeting of the Entomological Society of America. December 12-15, San Diego, California.
- Chapman EG**, Romero SA, Harwood JD. 2010. Maximizing collection and minimizing risk: does vacuum suction sampling increase the likelihood for misinterpretation of food web connections? Oral presentation: 34th Annual meeting of the American Arachnological Society, June 11-15, East Carolina University, Greenville, North Carolina.
- Welch KD, **Chapman EG**, Harwood JD. 2010. The role of web placement in structuring web-building spider communities and food webs. Oral presentation: 34th Annual meeting of the American Arachnological Society, June 11-15, East Carolina University, Greenville, North Carolina.
- Chapman EG**, Romero SA, Harwood JD. 2010. Maximizing collection and minimizing risk: does vacuum suction sampling increase the likelihood for misinterpretation of food web connections? Poster presentation: Sixth Kentucky Innovation and Entrepreneurship Conference. April 6, Lexington, Kentucky.
- Adams MK, **Chapman EG**, Harwood JD. 2010. Molecular identification of interaction pathways between carabid beetles and slugs in alfalfa. Poster presentation. Meeting of the slug and snail subgroup of the International Organization for Biological Control. March 23-25, Cardiff, Wales, UK.
- Chapman EG**, Heidel TT, O'Neill RJ, Harwood JD. 2009. Molecular diagnosis of aphid predation by *Harmonia axyridis* in midwestern U.S. prairie/savanna habitats. Oral presentation: Annual Meeting of the Entomological Society of America. December 13-16, Indianapolis, Indiana.
- Welch KD, **Chapman EG**, Harwood JD. 2009. The dietary significance of web placement for linyphiid spiders as determined by molecular gut-content analysis. Oral presentation: Annual Meeting of the Entomological Society of America. December 13-16, Indianapolis, Indiana.
- Dodd LE, **Chapman EG**, Harwood JD, Lacki MJ, Riske-Kinney LK. 2009. Genetic markers offer multiple approaches to infer prey consumption by forest-dwelling bats. Oral presentation:



Annual Meeting of the Entomological Society of America. December 13-16, Indianapolis, Indiana.

**Chapman EG**, Greenstone MH, Harwood JD. 2009. Molecular diagnosis of natural enemy-host interactions. Invited oral presentation: Entomological Society of America, Southeastern Branch. March 8-11, Montgomery, Alabama.

**Chapman EG**, Jaramillo J, Vega FE, Harwood JD. 2009. Biological control of coffee berry borer: The role of DNA-based gut-content analysis in assessment of predation. Invited oral presentation: 3<sup>rd</sup> International Symposium for the Biological Control of Arthropods. February 8-13, Christchurch, New Zealand.

**Chapman EG**, Jaramillo J, Vega FE, Harwood JD. 2008. Molecular elucidation of the role of predatory thrips for biological control of the coffee berry borer. Oral presentation: Annual Meeting of the Entomological Society of America. November 16-19, Reno, Nevada.

**Chapman EG**. 2008. Parallel evolution of larval feeding behavior in the snail-killing fly genus *Tetanocera* (Diptera: Sciomyzidae). Oral presentation: Symposium in Ecology, Evolution and Behavior (CEEBS). May 8, University of Kentucky, Lexington, Kentucky.

**Chapman EG**, Foote BA, Hoeh WR. 2006. Larval morphological and feeding behavioral adaptations in response to parallel habitat transitions in the genus *Tetanocera* (Diptera: Sciomyzidae). Oral presentation: Evolution2006: Joint annual meeting of the Society for the Study of Evolution (SSE), the Society of Systematic Biologists (SSB), and the American Society of Naturalists (ASN). June 23-27, Stony Brook University, Long Island, New York.

Walker JM, Chakrabarti R, **Chapman EG**, Curole JP, Shepardson SP, Stewart DT, Trdan RJ, Vijayaraghavan S, Hoeh WR. 2006. Evolution and subcellular location of the hyper-variable C-terminus extension of the male-transmitted COX2 protein in Amblemine Bivalves (Unionoida). Poster presentation: Evolution2006: Joint annual meeting of the Society for the Study of Evolution (SSE), the Society of Systematic Biologists (SSB), and the American Society of Naturalists (ASN). June 23-27, Stony Brook University, Long Island, New York.

Walker JM, **Chapman EG**, Campbell DC, Christian A, Curole JP, Davis M, Harris J, Hove M, Sietman B, Watters GT, Hoeh WR. 2006. Gender-associated mtDNA phylogenetics and the evolution of mantle lures in Amblemine Bivalves (Unionoida: Ambleminae). Oral presentation: Evolution2006: Joint annual meeting of the Society for the Study of Evolution (SSE), the Society of Systematic Biologists (SSB), and the American Society of Naturalists (ASN). June 23-27, Stony Brook University, Long Island, New York.

**Chapman EG**, Foote BA, Malukiewicz J, Hoeh WR. Parallel evolution of larval morphology and habitat in the snail-killing fly genus *Tetanocera*. Oral presentation: Annual meeting of the Entomological Society of America. December 15-18, Fort Lauderdale, Florida.

**Chapman EG**, Foote BA, Malukiewicz J, Hoeh WR. Parallel evolution of larval morphology, habitat and feeding behaviors in the snail-killing fly genus *Tetanocera*. Oral presentation: Annual meeting of the North American Benthological Society, May 22-27, New Orleans, Louisiana.

Wojtecki R, Walker JM, Wade DE, **Chapman EG**, Bogan AE, Hoeh WR. 2005. Molecular systematics of the Unionoida (Bivalvia). Oral presentation: 19<sup>th</sup> National Conference on Undergraduate Research (NCUR). April 21-23, Lexington, Virginia.

Wojtecki R, Walker JM, Wade DE, **Chapman EG**, Bogan AE, Hoeh WR. 2005. Molecular systematics of the Unionoida (Bivalvia): Utility of a unique mitochondrial inheritance system for inferring phylogeny. Oral presentation: Ohio Academy of Sciences annual meeting.

April 1-3, Bowling Green State University, Bowling Green, Ohio.

- Chapman EG**, Foote BA, Hoeh WR. 2004. The Evolution of Slug (Gastropoda) parasitoidism in the genus *Tetanocera* (Diptera: Sciomyzidae). Oral presentation: Evolution2004: Joint annual meeting of the Society for the Study of Evolution (SSE), the Society of Systematic Biologists (SSB), and the American Society of Naturalists (ASN). June 26-30, Colorado State University, Fort Collins, Colorado.
- Chapman EG**, Foote BA, Hoeh WR. 2003. Systematics of the snail-killing flies in the tribe *Tetanocerini* (Diptera: Sciomyzidae): Evolution of larval feeding strategies in the genus *Tetanocera*. Oral presentation: Evolution2003: Joint meeting of the Society for the Study of Evolution (SSE), Society of Systematic Biologists (SSB), and American Society of Naturalists (ASN). June 20-24, California State University, Chico, California.
- Chapman EG**, Foote BA, Hoeh WR. 2002. A preliminary molecular phylogeny of the snail-killing flies in the genus *Tetanocera* (Diptera: Sciomyzidae). Oral presentation: Ohio Systematists Annual Meeting; February 22, Columbus, Ohio.
- Chapman EG**, Chordas SW III. 1999. The crawling water beetles (Coleoptera: Haliplidae) of Ohio. Poster presentation: North American Benthological Society, National Meeting; May 25-28, Duluth, Minnesota.
- Chapman EG**, Chordas SW III. 1999. Characterization of the ponds at the wildlife sanctuary "The Wilds," Muskingum County, Ohio. Oral presentation: Ohio Systematists Annual Meeting; February, Columbus, Ohio.
- Chordas SW III, **Chapman EG**. 1998. The genus *Trichocorixa* (Hemiptera: Corixidae) in Ohio. Poster presentation: Annual Executive Meeting of the Ohio Biological Survey; October, Columbus, Ohio.
- Chapman EG**, Foote BA. 1997. A survey of the aquatic Coleoptera of northeastern Ohio. Poster presentation: Entomological Society of America, National Meeting; December 14-18, Nashville, Tennessee.
- Chapman EG**, Chordas SW III. 1997. A survey of the crawling water beetles (Coleoptera: Haliplidae) of Ohio. Oral presentation: Annual Executive Meeting of the Ohio Biological Survey; October, Columbus, Ohio.
- Chapman EG**, Foote BA. 1996. A comparison of three methods for collecting aquatic beetles. Poster presentation: Entomological Society of America, National Meeting. Dec. 8-12, Louisville, Kentucky.
- Chapman EG**, Foote BA. 1996. A survey of the aquatic beetles (Coleoptera) of northeastern Ohio. Oral presentation: Annual Executive Meeting of the Ohio Biological Survey; October, Columbus, Ohio.
- Chapman EG**, Foote BA. 1996. A preliminary survey of the aquatic beetles (Coleoptera) of northeastern Ohio. Oral presentation: Annual meeting of the North American Benthological Society; June 3-7, Kalispel, Montana.
- Chapman EG**, Brooks J. 1996. Aquatic insects of Nimishillen Creek. Oral presentation: The Ohio Academy of Science. May 3-5, Malone College, Canton, Ohio.

## Activities

The Entomological Society of America	1992-present
The Coleopterists Society	1997-2010
The Society of Systematic Biologists	2000-2008
The European society of Evolutionary Biologists	2006-2008
The Michigan Entomological Society	1998-2005
The Ohio Biological Survey	1995-2005
The North American Benthological Society	1995-2005
*The Ohio Odonata Society	1997-2005

\*I have served as both President and Vice President

## Peer Review

I have been an *ad hoc* reviewer for the following journals: Agricultural and Forest Entomology; Annals of the Entomological Society of America; Bulletin of Entomological Research; Biological Control; Cladistics; Forest Entomology; Journal of Plankton Research; Methods in Ecology and Evolution; Molecular Ecology; Molecular Ecology Resources; Naturwissenschaften; Proceedings of the Entomological Society of Washington.

## Committees

Biological Sciences Representative to the Kent State Graduate Student Senate (2004-2005)  
Graduate Student Representative, KSU Graduate Studies Committee (2003-2004)  
Graduate Student Representative, KSU Microbial Ecologist Search Committee (Spring 2003)

## Community Service

**Volunteer:** Insect Day: Cleveland Museum of Natural History, September 2001, May 2002  
**Volunteer:** UK/Raven Run Insect Walk. Raven Run Nature Sanctuary, Lexington, KY, July, 2008-2013  
**Science Fair Judge:**  
Cassidy Elementary, Lexington, KY, January 16, 2013  
Bryan Station High School, Lexington, KY, February 8, 2014

## References

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