

CURRICULUM VITA

I. ACADEMIC/PROFESSIONAL BACKGROUND

ANDREA S. ASPBURY

SENIOR LECTURER

EDUCATIONAL BACKGROUND

- Ph.D. 2002: University of Nebraska—Lincoln, Biology. (Advisor: Robert M. Gibson).
ECOLOGY OF MALE DISPERSION IN LEK-BREEDING GROUSE.
- M.S. 1996: Illinois State University, Biological Sciences. (Advisor: Steven A. Juliano).
RESOURCE QUALITY IN EPHEMERAL HABITATS: EFFECTS OF DRYING AND PRIOR EXPLOITATION.
- B.S. 1994: University of Arizona.

UNIVERSITY EXPERIENCE

Senior Lecturer, Texas State University—San Marcos. 2005 – present
Adjunct Doctoral Graduate Faculty, Texas State University—San Marcos. 2003 – present
Post-doctoral Research Associate, Texas State University—San Marcos. 2002-2004.
Lecturer, University of Texas—Austin. 2002 – 2005.

PROFESSIONAL EXPERIENCE

Research Asst. Dr. R. M. Gibson, School of Biological Sciences, Univ. of Nebraska. 2000 – 2002
Research Asst. Dr. A. L. Basolo, School of Biological Sciences, Univ. of Nebraska. 1998 – 1999
Research Asst. Dr. S. A. Juliano, Dept. of Biological Sciences, Illinois State Univ. 1995 – 1996

II. TEACHING

COURSES TAUGHT

- 2005 –PRESENT: ORGANISMAL BIOLOGY: Dept. of Biology, Texas State University
LAB COORDINATOR: ORGANISMAL BIOLOGY: Dept. of Biology, Texas State University
- FALL 2007: ANIMAL BEHAVIOR: Dept. of Biology, Texas State University
- 2002 – 2005: PRINCIPLES OF ANIMAL BEHAVIOR, GENETICS AND EVOLUTION, DIVERSITY AND ECOLOGY: School of Biological Sciences, University of Texas- Austin

COURSES PREPARED (AT TSU ONLY)

- FALL 2007: ANIMAL BEHAVIOR/TOPICS IN ECOLOGY (BIO 4472/5319): Wrote lectures and integrated research papers into lab. Students were responsible for preparing a manuscript and critiquing primary literature.
- 2005 – PRESENT: ORGANISMAL BIOLOGY & LAB: Wrote lectures using a new textbook (twice). I also prepared new lab modules on statistical analyses. In 2006, I implemented incorporating primary literature readings into lab. In 2007, I implemented using a new edition of Pechenik (2007) “A short guide to writing about biology” into the labs. In 2008, I developed a new lab module on life-table analyses. I have also coordinated the adoption of Mastering Biology into the Introductory Biology Curriculum. In 2008 I also set-up a new BIO 1431 lab room (in Supple 255).

TEACHING DEVELOPMENT

- SPRING 2009: Attendee/Presenter at “Biology Leadership Conference.” Tucson, Arizona. For continuing education in course development/teaching strategies.
- SUMMER 2008: Prepared prospectus, table of contents, and two sample chapters for an Animal Behavior textbook (in review with Oxford University Press)
- SPRING 2008: Attendee at “Science Education Workshop for Life Science and Chemistry.” Houston, Texas. For continuing education in course development/teaching strategies.

UNDERGRADUATE RESEARCH STUDENTS (CO-ADVISED WITH DR. GABOR)

- Michelle Parmley (2007 – Present): won Francis Rose Research award (2008); won Durrenberger Scholarship (College of Science, TSU – 2008) Co-author on submitted manuscript.
- Julia Coyle (2007 – 2008): won Francis Rose Research award (2008); has prepared a manuscript for submission; presented at Honors Thesis Forum (2008).
- Tamira Konkin-Garcia (2006 – 2007): won Francis Rose Research award (2007); won Durrenberger Scholarship (College of Science, TSU – 2007); has prepared a manuscript for submission; presented at Mitte Honors Thesis Forum (2007; and won runner-up award).
- Celeste Espinedo (2005 – 2006): presented research at Animal Behavior Society meeting (2005); won Turner Award from Animal Behavior Society (2005); won Durrenberger Scholarship (College of Science, TSU – 2006); Presented at (and won best presentation by undergraduate student) Biology Colloquium (2006); Co-author on published manuscript.

THESIS AND DISSERTATION COMMITTEES

- Vinny Farallo (Spring 2008—present) – MS
- Zachary Holderby (Fall 2007 – present) – MS

Laura Alberici da Barbiano (Fall 2006 – present) – PhD. Raney Award (ASIH), McCarley Award (SWAN), Durrenberger Scholarship for Women, Sigma Xi, Alexander Stone Genetics Scholarship Award, and Schluze Award

Kristen Epp (Fall 2004 – Present) – PhD. Norris Scholarship, Durrenberger Scholarship for Women in the College of Science, Sigma Xi, Runner up best grad student presentation Biology Colloquium, Associated Student Government,

Celeste Espinedo (2006 – 2008) – MS 2008. Durrenberger Scholarship

Rosie Gonzalez (2004 – 2007) – MS 2007

Donelle Robinson (2004 – 2006) – MS 2006. Durrenberger Scholarship

FUNDED EXTERNAL TEACHING GRANTS

2005: NSF–DIB, RET Supplement \$5,890

III. SCHOLARLY/CREATIVE

EDITED LABORATORY GUIDES

Organismal Biology Laboratory Exercises (2006, 2007, 2008) edited by A. S. Aspbury & C. R. Gabor

REFEREED JOURNAL ARTICLES

Aspbury, A. S., C. M. Espinedo & C. R. Gabor. 2009. Lack of species recognition based on chemical cues by male sailfin mollies, *Poecilia latipinna*. *Evolutionary Ecology*. DOI: 10.1007/s10682-008-9291-z

C. R. Gabor & A. S. **Aspbury**. 2008. Non-repeatable mate choice by male sailfin mollies, *Poecilia latipinna*, in a unisexual-bisexual mating complex. *Behavioral Ecology* 19: 871-878.

D. M. Robinson, A. S. **Aspbury**, & C. R. Gabor. 2008. Differential sperm transfer by male sailfin mollies in a unisexual-bisexual species complex: rapid spermiation during mating? *Behavioral Ecology and Sociobiology* 62: 705-711.

Aspbury, A. S. 2007. Sperm competition effects on sperm production and expenditure in sailfin mollies, *Poecilia latipinna*. *Behavioral Ecology* 18: 776-780.

Gumm, J. M. R. Gonzalez, A. S. **Aspbury**, & C. R. Gabor. 2006. Do I know you? Species recognition in an unisexual-bisexual species complex of mollies. *Ethology* 112:448-457.

Aspbury, A. S. & C. R. Gabor. 2004 a. Discriminating males alter sperm production between species. *Proceedings of the National Academy of Sciences* 101: 15970-15973.

Aspbury, A. S. & C. R. Gabor. 2004 b. Differential sperm priming by male sailfin mollies (*Poecilia latipinna*): Effects of female and male size. *Ethology* 110: 193-202.

Aspbury, A. S. & R. M. Gibson. 2004. Long-range visibility of greater sage grouse leks: a GIS-based analysis. *Animal Behaviour* 67: 1127-1132.

Gibson, R.M., A. S. **Aspbury**, & L. M. McDaniel. 2002. Active formation of mixed-species grouse leks: a role for predation in lek evolution? *Proceedings of the Royal Society of London B* 269: 2503-2507.

Aspbury, A. S. & A. L. Basolo. 2002. Repeatable female preferences, mating order, and mating success in the poeciliid fish, *Heterandria formosa*. *Behavioral Ecology and Sociobiology* 51: 238-244.

Aspbury, A. S. & S. A. Juliano. 1998. Negative effects of drying and prior exploitation on the detritus resource in an ephemeral aquatic habitat. *Oecologia* 115:137-148.

PAPERS IN REVIEW

Gabor, C. R., & A. S. **Aspbury**. In review. Geographic variation in male mating preference for larger over smaller female conspecifics in sailfin mollies, *Poecilia latipinna*.

Gabor, C. R., M. Parmley & A. S. **Aspbury**. In review. Sexually parasitic unisexual Amazon molly mate preference for large males: sensory bias or direct benefits?

PUBLICATION RECOGNITION

ASPBURY & GABOR 2004A: ScienceNOW, Science Magazine's online news service 11/1/04 CBC radio Quirks and Quarks, 11/04; PNAS article highlights, 11/04; Natural History Magazine 3/05; Wissenschaft Online, 11/04; Le Scienze Online, 11/04

GIBSON ET AL. 2002: ScienceNOW, Science Magazine's online news service 11/1/02

INVITED PRESENTATIONS

- 2007: Aspbury, A.S. Sperm competition effects on sperm production and expenditure in sailfin mollies, *Poecilia latipinna*. Sam Houston State University, Huntsville, TX.
- 2006: Aspbury, A.S. Species recognition versus mate quality recognition in a unisexual-bisexual system: Asexuals looking for sperm. Illinois State University, Dept. of Biological Sciences, Normal, IL.
- 2004: Aspbury, A.S. Behavioral ecology of male mating strategies in birds and fish. University of Texas Austin, Section of Integrative Biology, Austin, TX
- 2003: Aspbury, A.S. Behavioral ecology of male mating strategies in birds and fish. Southwestern University, Department of Biology, Georgetown, TX.

Aspbury, A.S. Visibility of sage grouse leks: interacting effects of mate attraction and predator avoidance? University of Louisiana at Lafayette, Department of Biology, Lafayette, LA.

2002: Aspbury, A.S. Visibility of sage grouse leks: interacting effects of mate attraction and predator avoidance? Southwest Texas State University, Department of Biology, San Marcos, TX.

PRESENTATIONS AT CONFERENCES

2008: Espinedo, C. M., Gabor, C. R., & **Aspbury**, A. S. Symmetrical isolation: A tale of two species. Evolution Annual Meeting, Minneapolis, Minnesota.

Gabor, C. R. & **Aspbury**, A. S. Male preference functions based on female size in the sailfin molly, *Poecilia latipinna*: bigger is not always better. Evolution Annual Meeting, Minneapolis, Minnesota.

2007: Espinedo, C. M., **Aspbury**, A. S., & Gabor, C. R. Male mate choice in *Gambusia*. Animal Behavior Society 44th Meeting, Burlington, Vermont.

Alberici da Barbiano, L., Gabor, C. R., **Aspbury**, A. S. & Nice, C. Unisexual-bisexual mating systems: Is male fitness influenced by the frequency of unisexual heterospecific females? Animal Behavior Society 44th Meeting, Burlington, Vermont.

2006: Robinson, D., **Aspbury**, A. S. & Gabor, C. R. Rapid spermiation during mating by male sailfin molly, *Poecilia latipinna*. International Society for the Study of Behavioral Ecology, Tours, France.

Aspbury, A. S. Varying perception of operational sex ratio influences male sperm production and expenditure in sailfin mollies, *Poecilia latipinna*. International Society for the Study of Behavioral Ecology, Tours, France.

Robinson, D. **Aspbury**, A. S., & Gabor, C. R. Differential sperm expenditure between species in the sailfin molly, *Poecilia latipinna*. Evolutionary Behavioral Ecologists Regional Annual Meeting, Lake Texoma, Oklahoma.

Espinedo, C. **Aspbury**, A. S., & Gabor, C. R. Effect of chemical vs. visual cues on sperm priming in sailfin mollies, *Poecilia latipinna*. Evolutionary Behavioral Ecologists Regional Annual Meeting, Lake Texoma, Oklahoma.

2005: Espinedo, C. M., Gabor, C. R., & **Aspbury**, A. S. Analyzing the significance of chemical versus visual cues for species recognition in male sailfin mollies. Animal Behavior Society 42nd Meeting, Snowbird, Utah.

Robinson, D., **Aspbury**, A. S. & Gabor, C. R. Differential sperm allocation in the sailfin molly, *Poecilia latipinna*. Animal Behavior Society 42nd Meeting, Snowbird, Utah.

Gonzalez, R, Gabor, C. R. & **Aspbury**, A. S. Differential sperm transfer in relation to size in sailfin mollies, *Poecilia latipinna*. Animal Behavior Society 42nd Meeting, Snowbird, Utah.

- 2004: **Aspbury, A. S.** & Gabor, C. R. Differential sperm priming by male sailfin mollies (*Poecilia latipinna*): effects of male size, female size and female species. Joint Meeting of the American Society of Ichthyologists and Herpetologists, Norman, OK.
- 2003: **Aspbury, A. S.** & Gabor, C. R. Differential sperm priming by male sailfin mollies (*Poecilia latipinna*). First European Conference of Poeciliid Biologists, Zurich, Switzerland.
- Aspbury, A. S.** & Gabor, C. R. Differential sperm priming by male sailfin mollies (*Poecilia latipinna*). Animal Behavior Society 40th Meeting, Boise, ID.
- 2002: **Aspbury, A. S.** & Gibson, R. M. Sage grouse lek at sites with low visibility. Animal Behavior Society 39th Meeting, Bloomington, IN.
- Aspbury, A. S.** & Gibson, R. M. Ecological mechanisms underlying mixed species lek formation in prairie grouse. United States Regional Association of the International Association of Landscape Ecology Annual Meeting, Lincoln, NE.
- 2001: **Aspbury, A. S.** & Gibson, R. M. Ecological mechanisms underlying mixed species lek formation in prairie grouse. American Ornithological Union Meeting, Seattle, WA.
- Aspbury, A. S.** & Gibson, R. M. Ecological mechanisms underlying mixed species lek formation in prairie grouse. Animal Behavior Society 38th Meeting, Corvallis, OR.
- Aspbury, A. S.** & Gibson, R. M. Ecological mechanisms underlying mixed species lek formation in prairie grouse. Initiative for Ecological and Evolutionary Analysis Meeting, Lincoln, NE.
- 2000: **Aspbury, A. S.** & Gibson, R. M. Mechanisms of mixed species lek formation in prairie grouse. Animal Behavior Society 37th Meeting, Atlanta, GA.
- 1999: **Aspbury, A. S.** & Basolo, A. L. Post- copulatory sexual selection in poeciliid fish. Annual Meeting of the Society for the Study of Evolution, Madison, WI.
- 1996: **Aspbury, A. S.** & Juliano, S. A. Effects of habitat drying and prior cohort on *Aedes triseriatus*. Illinois State University Graduate Research Symposium. Normal, IL.
- Aspbury, A. S.** & Juliano, S. A. Effects of habitat drying and a prior non-overlapping cohort on growth and development of *Aedes triseriatus*. Annual Meeting of the Ecological Society of America. Providence, RI.

FUNDED GRANTS

- 2004-2007: **National Science Foundation**, Co-PI with Dr. C.R. Gabor. "SPECIES RECOGNITION VERSUS MATE QUALITY RECOGNITION IN A UNISEXUAL-BISEXUAL SYSTEM: ASEXUALS LOOKING FOR SPERM" \$299,477
- 2006: **National Science Foundation**, Co-PI with Dr. C.R. Gabor. REU Supplement. \$6,000.00

- 2005: **National Science Foundation**, Co-PI with Dr. C.R. Gabor. RET Supplement. \$6,890.00
- 2000: **Initiative for Ecological and Evolutionary Analysis** (University of Nebraska). \$1200.00
- 1999: **Animal Behavior Society**. \$500.00
- 1998: **Nebraska Behavioral Biology Group Grant** (University of Nebraska). \$950.00
- 1996: **Graduate Student Association Grant** (Illinois State University). \$500.00.
Graduate Student Research Award (Illinois State University). \$125.00.
- 1995: **Phi Sigma Biological Honor Society** (Illinois State University). \$500.00.

GRANTS SUBMITTED (PENDING)

- 2009: **National Science Foundation**, Co-PI with Dr. C.R. Gabor & Dr. C. Nice. “THE MAINTENANCE OF UNISEXUALITY: BEHAVIOR, HORMONES, AND GENETIC DIVERSITY IN A UNISEXUAL-BISEXUAL MATING COMPLEX” \$437,489
- 2008: **National Geographic Society**, pre-proposal approved for full submission. With Dr. C. Nice, Dr. C. R. Gabor, and L. Alberici da Barbiano. “PHYLOGENETIC RELATIONSHIPS AMONG MOLLIES AND MULTIPLE ORIGINS OF A GYNOGENETIC SPECIES” \$15000 requested.

GRANTS SUBMITTED (NOT FUNDED)

- 2008: **National Science Foundation**, Co-PI with Dr. C.R. Gabor & Dr. C. Nice. “BEHAVIORAL AND GENETIC DIVERSITY ACROSS POPULATIONS OF UNISEXUAL AMAZON MOLLIES IN A UNISEXUAL-BISEXUAL MATING SYSTEM” \$407,813
- National Science Foundation**, Co-PI with Dr. C.R. Gabor & Dr. C. Nice. “WHY DO MALES MISMATE IN A UNISEXUAL-BISEXUAL MATING SYSTEM: CONDITION-DEPENDENT MATING DECISIONS AND GENETIC VARIATION IN UNISEXUALS?” \$399,951
- 2007: **National Science Foundation**, Co-PI with Dr. C.R. Gabor & Dr. C. Nice. “ECOLOGICAL AND EVOLUTIONARY PERSPECTIVES ON THE MAINTENANCE OF UNISEXUAL GYNOGENS: BEHAVIORAL IMPLICATIONS” \$399,975. Not Funded.
- 2005: **Texas State University Research Enhancement Program**, Co-PI with Dr. C.R. Gabor: “EVOLUTIONARY MAINTENANCE OF A ASEXUAL-SEXUAL SPECIES COMPLEX: FITNESS CONSEQUENCES FOR SEXUAL MALE SAILFIN MOLLIES.” \$16,000. Not Funded.

FELLOWSHIPS

- 2001: Suzanne O. Prather Memorial Scholarship (University of Nebraska). \$1300.00
 Jessie Lee Scholarship (University of Nebraska). \$250.00
- 2000: Dr. Franklin Kestner Memorial Fund (University of Nebraska). \$850.00
- 2000: Initiative for Ecological and Evolutionary Analysis (University of Nebraska). \$450.00.
- 1999: School of Biological Sciences Special Funds (University of Nebraska). \$415.00
- 1996: Omar Rilett Scholarship (Illinois State University). \$125.00.

IV. SERVICE

COMMUNITY

- 2006: Presented at Travis High School; Senior Biology course – “Women in Science”
2005: Panelist for Women in Science discussion at the Lady Bird Johnson Wildflower center
2004: Poster Judge for Society for Advancement of Chicanos and Native Americans in Science

PROFESSIONAL

- 2009: Organized weekly Ecology, Evolution, Behavior meetings
Scholar’s Day, Biology Department tours
TExES exam question authoring and reviewing
- 2008: Merit Scholarship Reader, Texas State University
Biology Colloquium judge
Session Chair, Evolution meeting
TExES exam question authoring and reviewing
Hosted one seminar speaker for Biology Department (Dr. Steven Juliano)
- 2008-current SACS Biology Department data collector
Swim Club Advisor, Texas State University
- 2007: Biology Colloquium judge

ONGOING PROFESSIONAL

EXTERNAL GRANT REVIEWS: National Science Foundation (NSF); National Sciences and Engineering Research Council of Canada (NSERC).

JOURNAL REVIEWS: *Aquatic Ecology*; *Animal Behaviour*; *Behavioral Ecology and Sociobiology*; *Behaviour*; *BMC Evolutionary Biology*; *Evolutionary Ecology*; *Heredity*; *Proceedings of the Royal Society of London*; *Naturwissenschaften*; *Zebrafish*; *Ethology*; *Journal of Mammalogy*

TEXTBOOK REVIEWS: Benjamin Cummings (Biology 8th edn.); WW Norton (Animal Behavior); Prentice Hall (Animal Behavior); McGraw-Hill (Biology 1st edn); Pearson (Biology, Freeman 2nd edn); AW (Introductory Ecology)

PROFESSIONAL ORGANIZATIONS:

American Society of Ichthyologists and Herpetologists; Animal Behavior Society; Society for the Study of Evolution.