

ROMI L. BURKS

CURRICULUM VITA

Department of Biology, Southwestern University, 1001 E. University Ave., Georgetown, TX 78626
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EDUCATION

University of Notre Dame (UND) **Ph.D. Ecology, Evolution & Environmental Biology, 2000**
Dissertation title: *Daphnia* in littoral zones: costs &
benefits associated with diel horizontal migration;
Advisor: D. Lodge

Loyola University Chicago (LUC) **B.S. in Biology with honors, *magna cum laude*, 1995**
B.A. in English with honors, *magna cum laude*, 1995

POSITIONS HELD

2009 - present Associate Professor, Department of Biology, Southwestern University (SU)
2003 - 2009 Assistant Professor, SU Department of Biology
2009 - 2012 Paideia Professor, Southwestern University
2006 - present Chair, SU Animal Behavior Program; co-chair beginning Fall 2009
2003 - present Associate Doctoral Faculty, Texas State University
08/01 - 7/03 Research and Teaching Fellow, Rhodes College (RC)
12/00 - 7/03 Postdoctoral Fellow, The Ohio State University

SELECT HONORS, LEADERSHIP ROLES & AWARDS

2011 - 2013 Faculty Participant, NSF-CCLI: Developing and Assessing Process Skills in
Conservation Biology and Other Integrative Fields

2010 - 2012 Chair, Researchers at Undergraduate Institutions Section, ESA
2010 Invited Opponent, Limnology Department, Lund University
2010 Joined Editorial Board of *Freshwater Biology* (invitation only)

2011 - 2012 Texas Academy of Sciences President (elected)
2009 Panelist for IRES (International Research Experiences for Students), National
Science Foundation (NSF), Washington D.C.

2008 - 2010 Selected as BEN (BioEdNet) Scholar, AAAS, Washington, D.C.
2008 - 2009 SU Partner of the Year, Georgetown Partners in Education
2006, 2009 Nominated for Outstanding Teaching Award, SU
2001 Selected Participant (44 chosen from 180) in DIALOG IV in Bermuda
2000 The Kaneb Center Graduate Student Award for Excellence in Teaching
1998 Fulbright Scholar to Denmark
1997 UND Graduate Student Union Teaching Assistant of the Year Award
1995 Presidential Medal Recipient from the College of Arts and Sciences, LUC
1995 to present *Phi Beta Kappa*, member

RESEARCH INTERESTS

- Predator-prey interactions (particularly invertebrate)
- Role of complexity in structuring littoral zones
- Impacts of exotic species on community structure
- Chemical communication in aquatic systems
- Biomanipulation in shallow lakes, alternative stable states, *Daphnia* & water quality

PUBLICATIONS - PEER-REVIEWED UNLESS OTHERWISE DESCRIBED (* denotes undergraduate)

2011

- Kyle, C. H.*, A. W. Kropf and R. L. Burks. 2011. Prime waterfront real estate: Apple snails choose wild taro for oviposition sites. *In press, Current Zoology*.

- **Burks, R. L., S. A. Hensley* and C. H. Kyle***. 2011. Quite the appetite: juvenile island apple snails (*Pomacea insularum*) survive consuming only exotic, invasive plants. *In press, Journal of Molluscan Studies*.

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2010

- **Burks, R. L., C. H. Kyle* and M. K. Trawick***. 2010. Pink Eggs and Snails: Field oviposition patterns indicate shallow aquatic systems susceptible to invasion by *Pomacea insularum*. *Hydrobiologia*, Shallow Lakes 2009 Special Volume 646: 243-251. DOI 10.1007/s10750-010-0167-1.

EDITORIAL SUMMARY:

Meerhoff, M., M. Beklioglu, **R. Burks**, F. García-Rodríguez, N. Mazzeo and B. Moss. 2010. Shallow Lakes: Preface. *Hydrobiologia* DOI 10.1007/s10750-010-0247-2.

2009

- **Burks, R. L. and M. M. Chumchal**. 2009. To Co-author or Not to Co-author: How to write, publish, and negotiate issues of authorship with undergraduate research students. *Sci. Signal*. 2 (94), tr3. [DOI: 10.1126/scisignal.294tr3] **PDF Available via RB website**
- **Burks, R. L.** 2009. A Kernel of Truth: Microwave popcorn makes it easier to teach basic statistics. *The L&O Bulletin* 18(2): 36-40. **PDF Available via RB website**
- **Kyle, C. H.,* M. K. Trawick,* J. P. McDonough* and R. L. Burks**. 2009. Population dynamics of an established reproducing population of the invasive apple snail (*Pomacea insularum*) in suburban southeast Houston, Texas. *Texas Journal of Science* 61(4): 1-5.

2008

- **Barnes, M.A.*, R. K. Marfurt*, J. J. Hand and R. L. Burks**. 2008. Fecundity of the exotic applesnail, *Pomacea insularum*. *The Journal of the North American Benthological Society* 28(3): 738-745 (with color photo). **PDF Available**
- **Youens, A. K.* and R. L. Burks**. 2008. Comparing applesnails with oranges: the need to standardize measuring techniques when studying *Pomacea*. *Aquatic Ecology* 42(4): 679-684. DOI: 10.1007/s10452-007-9140-0. **PDF Available**
- **Boland, B.*, M. Meerhoff, C. Fosalba, N. Mazzeo, M. Barnes* and R. L. Burks**. 2008. Juvenile snails, adult appetites: Contrasting resource consumption between two species of applesnails (*Pomacea*). *Journal of Molluscan Studies* 74(1): 47-54. [DOI: 10.1093/mollus/eym045.] **PDF Available**

2007

- **Burks, R. L. and L. Boles**. 2007. Evolution of the Chocolate Bar: A creative approach to teaching phylogenetic relationships within evolutionary biology. *The American Biology Teacher* 69(4): 229-237. **PDF Available**

EDITOR-REVIEWED BOOK REVIEW

Burks, R. L. 2007. Math for Wiser Decisions (a review of Rockwood's *Introduction to Population Ecology*). *BioScience* 57(3): 288-289.

2006

- **Burks, R. L., G. Mulderij, E. Gross, I. Jones, L. Jacobsen, E. Van Donk, and E. Jeppesen**. 2006. Chapter 3 - Center stage: The Crucial Role of Macrophytes in Regulating Trophic Interactions in Shallow Lake Wetlands. Pages 37-59 in R. Bobbink, B. Beltman, J. T. A. Verhoeven, and D. F. Whigham (eds) *Wetlands: Functioning, Biodiversity Conservation, and Restoration*. Ecological Studies, Volume 191, Springer-Verlag Berlin Heidelberg.
- **R. G. Howells, L. E. Burlakova, A. Y. Karatayev, R. K. Marfurt*, and R. L. Burks**. 2006. Chapter 5 - Native and introduced Ampullaridae in North America: History, status and ecology. Pages 73-112 in R. C. Joshi (ed) *Global Advances in Ecology and Management of Golden Apple Snails*. Philippine Rice Research Institute (PhilRice), Philippines. **PDF available**

2005

- Lindquister, G., **R. L. Burks**, and C. R. Jaslow. 2005. Developing information fluency in introductory biology students in the context of an investigative laboratory. *Cell Biology Education* 4: 58-96. **PDF available**

2004

- Tuchman, N. C., **R. L. Burks**, C. A. Call, and J. J. Smarrelli. 2004. Flow rate and vertical position influence ingestion rates of colonial zebra mussels (*Dreissena polymorpha*). *Freshwater Biology* 49: 191-198. (*revisions completed at SU*)

2002

- **Burks, R. L.** and D. M. Lodge. 2002. Cued in: advances and opportunities in freshwater chemical ecology. *Journal of Chemical Ecology*. 28(10): 1881- 1897.
- **Burks, R. L.**, N. C. Tuchman, C. A. Call, and J. E. Marsden. 2002. Colonial aggregations: the effect of spatial position on zebra mussel responses to interstitial water quality. *Journal of the North American Benthological Society* 21(1): 64-75. **PDF available**
- **Burks, R. L.**, D. M. Lodge, E. Jeppesen and T. L. Lauridsen. 2002. Diel horizontal migration of zooplankton: costs and benefits of inhabiting littoral zones. *Freshwater Biology* 47: 343-366. **PDF available**

2001

- **Burks, R. L.**, E. Jeppesen and D. M. Lodge. 2001. Pelagic prey and benthic predators: impact of odonate predation on *Daphnia* among complex structure. *Journal of the North American Benthological Society* 20(4): 683-696. **PDF available**
- **Burks, R. L.**, E. Jeppesen and D. M. Lodge. 2001. Littoral zone structures as *Daphnia* refugia against fish predation. *Limnology and Oceanography* 46(2): 230-237. **PDF available**

2000

- **Burks, R. L.**, E. Jeppesen and D. M. Lodge. 2000. Macrophyte and fish chemicals suppress *Daphnia* growth and alter life history traits. *Oikos* 88(1): 139-147. **PDF available**

1999

- Lauridsen, T. L., E. Jeppesen, S.F. Mitchell, D. M. Lodge and **R. L. Burks**. 1999. Horizontal distribution of zooplankton in lakes with contrasting fish densities and nutrient levels. *Hydrobiologia* 408/409: 241-250.

MANUSCRIPTS IN PREPARATION

- Kyle, C. H.*, G. Dwyer, T. Shelton and **R. L. Burks**. Count your eggs before they invade: Models estimating egg number in clutches laid by invasive apple snails. Submission planned by 08/01/11, 1st choice *Ecological Modeling*; 2nd choice *J. Molluscan Studies*.
- **Burks, R. L.**, M. E. Rice, A. K. Youens and M. A. Barnes. 'Eggstraordinary' reproduction: Water stress and excess nutrients control survival of island apple snail hatchlings (*Pomacea insularum*). Submission planned by 10/01/11 to *Freshwater Biology*.

EXTERNAL FUNDING

2010-2011	Sam Taylor Fund, United Methodist, \$2000, stable isotope analysis
2010	National Science Foundation, IRES Planning Grant (\$18,670)
2009	HEB Community Partnership (3 allotments of \$300 each) for lettuce
2007-2008	Sam Taylor Fund, United Methodist, \$2000, lab improvements
2001	The Ohio State University Postdoctoral Fellowship
1999-2000	National Science Foundation Fellowship (Graduate Research Training)
08/1999	Netherlands Institute of Ecology, Centre for Limnology, @ \$400
07/1999	American Scandinavian Foundation Research Grant, \$3,000
1998-1999	Fulbright Fellowship for Study in Denmark (DK), \$11,000
1999-2000	National Science Foundation Graduate Research Training Grant; \$2000 + salary

RECENT UNIVERSITY-SUPPORTED PROFESSIONAL ACTIVITY

- 2011: Competitive Professional Development Funding (\$4300); \$1400 Non-competitive
 2010: Faculty-Student Collaborative Projects (\$15,455)
 Competitive Professional Development Funding (\$3260); \$1400 Non-competitive
 2009: 3M San Gabriel River Trail Project: \$2500 for Civic Engagement Ecology course
 Faculty-Student Collaborative Projects (\$12,945)
 Sabbatical award funding (1 semester salary + \$4350)
 Non-competitive Faculty Development (\$1400)
 2008: Mundy Fellowship for Collaborative Research (\$9000)
 Cullen Faculty Funds for International Travel (\$3000), Shallow Lakes, Uruguay

PEDAGOGICAL INTERESTS

- Examining the integration between teaching and research
- The academic side of civic engagement
- Encouraging critical thinking analysis through hands-on activities with graphing and statistics
- Understanding the mentoring process

MENTORING EXPERIENCE (i.e. UNDERGRADUATE RESEARCHERS)**Current SU Students:**

- 01/2011 - present *Kevin Burge*, SU Senior
Hatchling care in island apple snails
- 01/2011 - present *Manuel Ortegon*, SU Junior
Temperature effects on plant consumption
- 01/2011 - present *Katie Gibson*, SU Senior
Slow to act? Behavioural responses in island apple snails
- 04/2010 - present *Tracy Day*, SU Senior
Establishing trophic position of *P. insularum*
- 09/2009 - present *Allyson Plantz*, SU Junior
Egg predation by riparian predators
- 04/2009 - present *Brandon O'Connor*, SU Senior
Crayfish predation on hatchling apple snails

Past SU Students:

- 01/2009 - 05/2011 *Megan Rice* (BS Biology; 2011 Biology Student of the Year)
Disturbing environments: post-hatching survival of apple snails; *1st year medical school student at Univ. Texas at Houston.*
- 04/2008 - 05/2010 *Matthew Trawick* (BA Environmental Studies; Minor Biology),
Hatchling survival success versus water stress; *Second year MS Student at Texas Tech in Environmental Toxicology*
- 08/2008 - 05/2010 *Olivia Stanzer* (BS Biology), Persistence of pink: ecological role of ovorubin protein; *Starting Doctor of Physical Therapy program in Fall 2011*
- 04/2009 - 08/2010 *Alexis Kropf*, SU Junior, Relationship of fecundity & female snail size
- 08/2008 - 05/2009 *Scott Manusov* (BS Biology) Natural and induced aggregation patterns in *P. insularum*. *Chemistry Lab technician*
- 04/2007 - 05/2009 *James McDonough* (BS Biology), Field oviposition in *P. insularum*
Employment at UTAHSC
- 01/2007 - 05/2009 *Colin Kyle* (BS Biology), **Honors Student**, Oviposition preference in the apple snail *P. insularum*. *3rd year Ph.D. student in quantitative ecology at University of Chicago*
- 08/2008 - 12/2008 *Dena Leerberg*, SU Junior, Intra-cohort competition in *Pomacea*
- 08/2006 - 5/2008 *Sarah Hensley '08* (BS Biology), Juvenile consumption of exotic plants.
Fourth year Ph.D. student in microbiology at Univ. Massachusetts Amherst.
- 04/2006 - 05/2007 *Abby Youens '07* (BA Biology), Growing at a Snail's Pace: Juvenile growth patterns. *Completed M.S. Public Health at UTHSC Houston; now employed*

08/2004 - 05/2007	Brandon Boland '07 (BS Biology), Paideia Scholar, Understanding mechanisms behind food choice in the channelled applesnail species. <i>Third year Ph.D. student in molecular biology at University of Chicago</i>
05/2005 - 06/2006	Matthew Barnes (BA Biology), '06, Honors Student , The Snail and the Egg: understanding the egg-hatchling transition in apple snails. <i>Sixth year Ph.D. student in aquatic ecology at University of Notre Dame.</i>
08/2004 - 05/2005	Cathy Duong (BA Biology), '06, DU, Paideia Scholar, Temperature and chemical cues influences on diel horizontal migration of <i>Daphnia</i> . <i>Employed at corporate real estate firm working with tenants.</i>
08/2003 - 05/2005	Rebecca Marfurt '05 (BA Environmental Studies), SU, Life history and ecological impacts of the exotic channelled apple snail, <i>Pomacea "canaliculata (now P. insularum)."</i> <i>M.S. Aquatic Ecology at Texas State. Employed at Oklahoma Department of Environmental Quality.</i>
08/2003 - 08/2005	Austin Hill '05 , SU, Investigating potential dual effects of pesticides and chemical cues on <i>Daphnia</i> growth and reproduction. <i>Finished M.S. in Conservation Biology at Texas State.</i>

EXTERNAL GRANTS FUNDED BY UNDERGRADUATES

Plantz: 2010 Sigma Xi Grants-in-Aid (**(\$800 awarded)**); 2011 Texas Academy of Sciences Research Award (**Funded for \$1500**);
Stanzer: 2009 Sigma Xi Grants-in-Aid (**\$400 awarded**)
Leerberg: 2008 Sigma Xi Grants-in-Aid (\$1000 awarded, later declined); Texas Society of Native Plants (\$500 awarded; later declined)
Kyle and McDonough: 2008 Texas Academy of Sciences Research Award (**Funded for \$1000**); student collaborators for Mundy Faculty Fellowship (**Funded for ~\$9000**)
Barnes/Boland: 2006 Texas Academy of Sciences Research Award (**Funded for \$750 each**)

AWARDS EARNED BY UNDERGRADUATES

2010: Colin Kyle '09, Travel Grant to Ecological Society of America to present undergraduate research. Funded by Strategic Environmental Research and Development Program, Department of Defense.
2010: Colin Kyle '09, National Science Foundation Graduate Research Fellowship
2010: Matt Trawick, Outstanding Oral Presentation in the Collegiate (i.e. Undergraduate) Academy at the Texas Academy of Sciences, Tarleton State University. \$300 presented; Best Abstract in Freshwater Ecology Section; \$100 presented
2009: Matt Trawick, Olivia Stanzer, Brandon O'Connor, Ryan Saurage, Allyson Plantz and Jessilyn Massey. \$2950 from King Creativity Grant for documentary about invasive species and public perceptions: "Snakes, Snails and Yuppie Tales"
2008: Sarah Hensley, Honorable Mention for Best Oral Presentation in the Collegiate (i.e. Undergraduate) Academy at the Texas Academy of Sciences, Texas A&M Corpus Christi. \$50 presented to student.
2006: Brandon Boland, Outstanding Oral Presentation in the Collegiate (i.e. Undergraduate) Academy at the Texas Academy of Sciences, Lamar University. \$300 presented to student.
2005: Rebecca Marfurt, Travel Award (\$285) to the Freshwater Mollusk Conservation Society Meeting in St. Paul, MN.

COURSES TAUGHT AT SOUTHWESTERN (with Fall 2011)

Wetland Ecology and Policy (cross-listed with Environmental Studies; Fall 2010)
Paideia Seminar (5 semesters)
First Year Seminar: Multi-chocolated: An Aesthetic, Historical and Scientific Journey into the Wonders of Chocolate (4 sections)
Methods in Ecology and Evolution (8 sections)
Introduction to Animal Behavior (1 hour course; 3 sections)
Ecology (3 sections at SU)
Senior Seminar: Aquatic Invasive Species (1 section at SU)
Biodiversity (24 sections)

Invertebrate Ecology (4 sections at SU)

Environmental Science (POK) (4 sections at SU)

First Year Seminar Wet N' Wild: Wetland Science in a Changing Landscape (2 sections at SU)

INVITED PLENARY OR TUTORIAL ADDRESSES

- **R. L. Burks.** October 2010. Everything I needed to know about BIO2010 I learned from snails. Plenary Address. Association of College and University Biology Educators. Lourdes College, Sylvania, Ohio.
- **R. L. Burks.** December 2008. If every species is a magic well, what can we learn from them? Plenary, IX Jornadas De Zoologia del Uruguay, Facultad de Ciencias, Montevideo, Uruguay.
- **R. L. Burks.** November 2008. If every species is a magic well, how do we get to the bottom of biodiversity issues in shallow lakes. Tutorial: Invasive Species and Diversity. 2008 International Shallow Lakes Meeting, Punta del Este, Uruguay.
- **R. L. Burks.** May 2002. Littorally complex: linkages between structural, chemical, and behavioural food web interactions in littoral zones. 2002 International Shallow Lakes Meeting, Balatonfured, Hungary.

RECENT NATIONAL OR INTERNATIONAL CONFERENCE PRESENTATIONS

Category 1: INVITED PAPERS OR SPECIAL SESSIONS (* denotes undergraduate author, oral presentation unless otherwise noted, underline represents presenting author if not R. L. Burks)

1. **Burks, R. L.,** O. D. Stanzer*, M. E. Rice*, A. L. Plantz*, A. W. Kropft* and C. H. Kyle*. November 2010. Synthesizing studies of the island apple snail (*Pomacea insularum*) egg clutches to reveal ecological insights. Invited oral presentation. 4th International POMACEA Meeting. Tucuman, Argentina.
2. McDonough, J. P.*, C. H. Kyle* and **R. L. Burks.** November 2008. Pink eggs and snails: oviposition patterns of *Pomacea insularum* that may indicate areas susceptible to invasion. Poster presentation, 2008 International Shallow Lakes Meeting, Punta del Este, Uruguay.
3. Kyle, C. H.*, J. P. McDonough* and **R. L. Burks.** November 2008. Location, location, location: oviposition preferences of the exotic, invasive applesnail, *Pomacea insularum*.
4. **Burks, R. L.** August 2008. Who's On First?: How to negotiate issues about authorship and writing abilities of undergraduates when writing papers for publication. Special Session "Mentoring Future Ecologists at Small Liberal Arts Colleges through Research." Ecological Society of America, Milwaukee, WI.
5. **Burks, R. L.,** M. A. Barnes, J. Hand, A. K. Youens* and S. A. Hensley*. August 2007. Bad Eggs: An investigation of how natural variability, submersion, and predation may act together to determine the fate of eggs laid by exotic applesnails, *Pomacea insularum*. Oral presentation, Special Session "Ecology and Ecotoxicology of Invasive Species in Inland Waters," 30th Congress of the International Association of Theoretical and Applied Limnology.

Category 2: CONTRIBUTED PAPERS AT NATIONAL OR REGIONAL CONFERENCE

(* denotes undergraduate author, underline indicates presenting author if not R. L. Burks)

1. Liebl, M.*, K. Roberts*, S. Pukys and **R. L. Burks.** March 2011. Get SMaRT: Introduction of Science and Math Achiever Teams. Oral Presentation, Texas Academy of Science, St. Edward's University, Austin, TX.
2. Plantz, A. L.* and **R. L. Burks.** March 2011. Incredible, edible eggs: Predation of apple snail (*Pomacea insularum*) eggs by a native, riparian predator, the red-eared slider (*Trachemys scripta elegans*). Oral Presentation, Texas Academy of Science, St. Edward's University, Austin, TX.
3. Rice, M. E.* and **R. L. Burks.** March 2011. Disturbing environments: Nutrient enrichment negatively impacts water stressed *Pomacea insularum* hatchlings. Oral Presentation, Texas Academy of Science, St. Edward's University, Austin, TX.
4. Kyle, C.H.*, G. Dwyer, T. Shelton and **R. L. Burks.** August 2010. Count your eggs before they invade: Models estimating egg number in clutches laid by invasive apple snails. Poster Presentation, Ecological Society of America, Pittsburgh, PA.
5. **Burks, R. L.,** C. H. Kyle* and M. M. Meerhoff. June 2010. Paint the littoral pink: native *Pomacea canaliculata* clutches present power of reproduction for invasive apple snails. Poster

- Presentation, Joint Meeting of American Society of Limnology and Oceanography and the North American Benthological Society, Sante Fe. NM.
6. Kropf, A.* and **R. L. Burks**. March 2010. Size doesn't matter for exotic female snails (*Pomacea insularum*) in terms of fecundity. Poster Presentation, Texas Academy of Science, Stephenville, TX.
 7. Trawick, M. K.* and **R. L. Burks**. March 2010. Waterlogged: Egg maturity mitigates effects of water stress on reproductive efforts of a freshwater invasive apple snail (*Pomacea insularum*). Oral Presentation, Texas Academy of Science, Stephenville, TX.
 8. Stanzer, O. D.* and **R. L. Burks**. March 2010. The persistence of pink: Perivitellin fluid fails to protect (*Pomacea insularum*) eggs from predation. Oral Presentation, Texas Academy of Science, Stephenville, TX.
 9. **Burks, R. L.** and J. Van Dyke. August 2009. Not a slow snail: Rapid rise of environmental awareness and ecological insights regarding invasive island applesnails (*Pomacea insularum*). Wetlands Session. Ecological Society of America. Albuquerque, New Mexico, USA.
 10. Trawick, M. K.*, A. K. Youens*, S. A. Hensley*, M. A. Barnes* and **R. L. Burks**. May 2009. Stay out of the water: Hatching efficiency and short term survival of an invasive apple snail. Poster Presentation, North American Benthological Society, Grand Rapids, MI.
 11. McDonough, J.P.*, C. H. Kyle* and **R. L. Burks**. March 2009. Pink Eggs and Snails: Field oviposition patterns of *P. insularum* that may identify wetlands or shallow lakes susceptible to invasion. Oral Presentation, Texas Academy of Science, Junction, Texas.
 12. Kyle, C.H.*, J. P. McDonough and **R. L. Burks**. March 2009. Location, location, location: oviposition preferences of the exotic, invasive applesnail, *Pomacea insularum*. Oral Presentation, Texas Academy of Science, Junction, Texas.
 13. Trawick, M. K.* and **R. L. Burks**. March 2009. Wetter isn't better: Effects of disturbance on *Pomacea insularum* hatching efficiency. Oral Presentation, Texas Academy of Science, Junction, Texas.
 14. **Burks, R. L.**, S. A. Hensley*, C. H. Kyle* and J. P. McDonough. May 2008. What are invasion meltdowns made of: Maybe eggs and snails and elephant tails (or ears)? Poster Presentation, North American Benthological Society, Salt Lake City, UT.

UNIVERSITY SERVICE - Southwestern University

2011 - 2013	Awards Committee
2002 - current	<i>Phi Beta Kappa</i> Committee, 2010-2011 President
2010, 2011	Search Committee Member, Environmental Studies Tenure-Track position
2009	Search Committee Member, Environmental Studies ACS/Mellon Postdoc
Jan 2008	Road Scholar, San Antonio
Nov 2007	Homecoming Lecture: The Wonders of Chocolate for Development Event
2007 - 2009	Budget Advisory Committee
2007	Search Committee Mathematics, Outside Member
2006 - 2009	Natural Sciences Division Secretary
2006 - 2007	Integrated Marking and Advisory Board
2005 - 2007	Cullen Faculty Development Committee
2005 - 2008	Intercultural Perspective Committee
2002 - 2006	Environmental Studies Program Committee (completed 5-year review)

REPRESENTATIVE DEPARTMENTAL SERVICE - Southwestern University

- Biology Assessment Exam Coordinator; Webmaster for Department sites
- Creator and Publisher of *BioScope*, Biology Department newsletter (17 issues as of 04/10)
- Participant in Biology Department 5-year and 10-yr Reviews, Curricular Reform and Grant Preparations for Howard Hughes Grant and three Search Committees

COMMUNITY SERVICE

- Free School, Chocolate 101
- Biology Alumni Advisory Board, Loyola University Chicago (November 2007 - present)
- Professional Mentor for Meg Fencil, 5th yr graduate student from UT Marine Science Institute (07/2007-05/2008)
- SMARteams Outreach Program, Georgetown (Spring 2007 -present)

- Question & Answer Session, Liberal Phrases: Language lessons from life on the tenure track at a small liberal arts college (Oct. 2006, University of Notre Dame)
- Guest lecture on Biodiversity and Texas, Houston-Tillotsen (Oct. 2005)
- DIALOG Panel, Careers within and beyond Academia, Salt Lake City, Utah (Feb. 2005)
- Member, Biology Action Team, Williamson County, TX (appointed Spring 2005)
- Mentor, Georgetown High School Senior Capstone (Spring 2004)
- Panelist, How to Land an Academic Job, University of Texas, August 2003
- Results Analyst, Information Fluency Survey for General Biology Curriculum, Summer 2002,
 - Associated Colleges of the South Grant (PI = G. Lindquister)

PROFESSIONAL MEMBERSHIPS

- 2009 - present, *American Association for the Advancement of Science*, member
- 2005 - present, *Sigma Xi* Research Society elected member
- 2004 - present, Texas Academy of Sciences member
 - 2011, President
 - 2010, President-Elect
 - 2009, Vice President
 - 2007, Chair for Marine and Freshwater Section
 - 2006, Vice-Chairperson for Marine and Freshwater Ecology Section
- 2004 - 2007, National Association of Biology Teachers member
- 1997 - 2008, American Society of Limnology and Oceanography:
 - 2005-2007, Meetings Committee
 - 2001-present, Student Poster Judge
 - 1997 - 1999 ASLO Endowment Committee Member
- 1997 - present, Ecological Society of America (ESA) member
 - 2010-2011, RUI Section Chair
- 1992 - present, North American Benthological Society (NABS) member:
 - Mentor for graduate students
 - 2006, Appointed Sponsorship Committee (2007-2009 Chair)
 - 2002, International Profile Committee
 - 2001, Organized Student Presentation Judging
 - 2001-present, Student Presentation Judge (orals and posters)
 - 1999, Appointed member of the NABS Long-Range Planning Committee
 - 1998 - 1999 Chairperson, NABS Graduate Resources Committee (GRC)
 - 1996 - 1997 NABS Endowment Festivities Coordinator
 - 1996 Co-founder, NABS GRC to address student concerns, 3 year member
- 2002 - 2004, American Institute of Biological Sciences member
- 2001 - 2003, Council for Undergraduate Research (CUR) member
- 2001 - 2003, Tennessee Academy of Sciences (TAS) member
- 1999 -2003, Association of Women in Science (AWIS) member
- 1999 - 2002, American Scandinavian Foundation (ASF) member
- 1999 - 2002, Fulbright Alumni Association member

EDITORIAL RESPONSIBILITIES: *Freshwater Biology* (Board); *The American Midland Naturalist* (Associate Editor)

REVIEWER ACTIVITIES (JOURNALS)- *Animal Behaviour* (new), *Biological Invasions*, *Diversity and Distributions*, *Fresenius Environmental Bulletin*, *Archiv für Hydrobiologie*, *Canadian Journal of Fisheries and Aquatic Sciences*, *Ecology*, *Ethology*, *Freshwater Biology*, *Frontiers in Ecology and Evolution*, *Functional Ecology*, *Hydrobiologia*, *Journal of Chemical Ecology*, *Journal of Ecology* (new), *Journal of Experimental Marine Biology and Ecology*, *Limnology and Oceanography*, *Marine & Freshwater Research*, *Tropical Biology*, *Wetlands*

REVIEWER ACTIVITIES (GRANTS)-*Ecology Program*, *National Science Foundation*, *Estonia Research Foundation*, and *US Fish and Wildlife Service*

PEDAGOGICAL - John Wiley & Son, Current Contents, Pearson (new: Campus Ecology), Sinauer Publishing (Cain's Ecology), ETS, McGraw Hill (Brooker's Biology)

PUBLISHING COMPANIES: University of Chicago Press

REPRESENTATIVE MEDIA COVERAGE -

General Publicity: Who's Who at Southwestern: <http://www.southwestern.edu/whoswho-archive/0507fac.html> and 12/05

Teaching:

- 06/15/2010: Insects on the Menu (about entomophagy in Invertebrate Ecology course)
 - <http://southwestern.edu/live/news/5281-insects-on-the-menu>
- 09/16/2010: Snacking on Homework (about using microwave popcorn to teach statistics)
 - <http://www.southwestern.edu/newsroom/story.php?type=news&id=3233>
- 09/22/08: Fox 7 News Austin: Sweetest subject in the world (about FYS chocolate course)
 - <http://www.myfoxaustin.com/myfox/pages/Home/Detail;jsessionid=24626082306F4770C64C58B92DFC4FD1?contentId=7483726&version=1&locale=EN-US&layoutCode=VSTY&pageId=1.1.1&sflg=1>
- 08/01/08: AAAS Story about BEN Scholars
 - <http://www.aaas.org/news/releases/2008/0730ben.shtml>
- 12./06/07: SU Website: Class uses chocolate to help students learn about topics from advertising to evolution:
 - <http://www.southwestern.edu/cgi-bin/newsroom/article.cgi?id=55>
- 12/30/07: *The Houston Chronicle*: "A course that's coated in chocolate"
 - <http://www.chron.com/disp/story.mpl/metropolitan/5410714.html>
 - Also carried by *The Austin American Statesman* as "Southwestern professor finds a calling in chocolate."
- 2/14/08: New 8 Austin: Professor shares chocolate and knowledge
 - http://www.news8austin.com/content/your_news/_your_neighbors/default.asp?ArID=200541
- 3/21/08: *The Chronicle of Higher Education - Syllabus*: In This Course, the Main Dish is Chocolate
 - <http://chronicle.com/temp/email2.php?id=jHW2SFhy6CmgDYynM2KWZvgv5vw3Bmwb>

Research:

- March 2011: Finding Art in Biology (Profile of Research Student, Allyson Plantz)
 - <http://www.southwestern.edu/live/news/4501-finding-art-in-biology>
- November 2010: Biology Professor Receives National Science Foundation Grant
 - <http://www.southwestern.edu/live/news/3571-biology-professor-receives-national-science>
- November 2009: Lab students awarded creativity grant
 - <http://www.southwestern.edu/newsroom/story.php?id=1736>
- February 2009: Highlighted on new blog about apple snails
 - <http://snailbusters.wordpress.com/2009/03/04/collaborative-research-with-students/>
- May and December 2006, Filmed for Texas Parks and Wildlife show;
 - Documentary premiering on TV show March 9th 2008
 - See segment at: <http://www.southwestern.edu/~burksr/test/research/>

Outreach:

- 04/01/09: SU Webpage "Thinking SMArT"
 - <http://www.southwestern.edu/newsroom/story.php?id=1082>
- 04/26/07: *The Williamson County Sun*, "Results of Pairings: No Doubt, they're SMArT"