

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. M. 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

2013 – present Professor, Department of Biology, Southwestern University (SU)
2009 - 2013 Associate Professor, SU Department of Biology
2003 – 2009 Assistant Professor, SU Department of Biology
2012 – present Co-Chair, SU Environmental Studies Program
2006 - present Co-Chair, SU Animal Behavior Program
2009 - 2012 Paideia Professor, Southwestern University
2003 - 2008 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
08/00 – 12/00 Visiting Assistant Professor in Biology & Teaching Associate for the Kaneb Center
for Teaching and Learning, UND
08/99, 08/04 Invited Researcher, Netherlands Institute of Ecology, Centre for Limnology
1997 - 2002 Invited Researcher, National Environmental Research Institute, Silkeborg, DK
1995 - 1997 Teaching Assistant, Department of Biology, UND
1992 - 1995 Aquatic Ecology Research Technician, LUC

HONORS, LEADERSHIP ROLES & AWARDS

2014 Invited judge, International Chocolate Awards, New York City
2014 Texas Academy of Science, Board of Directors, Development Committee Chairperson
2013 Invited Senior Mentor, WEBS Symposium (<http://advance.washington.edu/webs/>)
2011 – 2013 Faculty Participant, National Science Foundation (NSF)-CCLI: Developing and
Assessing Process Skills in Conservation Biology and Other Integrative Fields
2012 Invited Mentor representing faculty at small liberal arts colleges, ECODAS Symposium
(<http://cmore.soest.hawaii.edu/eco-das/index.htm>)
2010 - 2012 Executive Officer, Researchers at Undergraduate Institutions Section, ESA
2010 Invited Opponent, Limnology Department, Lund University
2010 Joined Editorial Board of *Freshwater Biology* (invitation only)
2009 – 2013 Texas Academy of Sciences Past-President (12-13), President (11-12), President-Elect
(10-11), Vice President (09-10), Awards Committee Chair
2009 Texas Academy of Sciences Fellow
2009 - 2010 Guest Editor, *Hydrobiologia*, Proceedings 2008 International Shallow Lakes
2009 Invited Participant, AAAS Conference: Transforming Undergraduate Education
in Biology: Mobilizing the Community for Change

2009	Panelist for IRES (International Research Experiences for Students), NSF
2008 - 2010	Selected as BEN (BioEdNet) Scholar, AAAS, Washington, D.C.
2008 – 2009	SU Partner of the Year, Georgetown Partners in Education
2007	SU Nomination for Piper Professor; Finalist for Brown Junior Investigator Award
2007	Panelist for DDIG Review in Ecology, National Science Foundation
2006, 2009	Nominated for Outstanding Teaching Award, SU; working with disabilities
2004, 2005	Associated Colleges of the South (ACS) Environmental and Technology Fellow
2004	Invited participant (16 chosen from 70 applicants) for SEEK (Science Environment for Ecological Knowledge) workshop in Ecoinformatics
2003	Invited Panelist for Grant Review in Ecology, National Science Foundation
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	<i>Phi Beta Kappa</i>, member

RESEARCH INTERESTS

- Impacts of exotic species on community structure
- Molecular ecology of apple snails
- Predator-prey interactions (esp., invertebrate) and structural complexity within littoral zones
- Chemical communication in aquatic systems

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

2015:

- **Burks, R. L.**, J. Bernatis, J. E. Byers, J. Carter, C. W. Martin, W. G. McDowell and J. van Dyke. 2015. Not all apple snails are golden: A review of the identity, reproductive potential, distribution, biotic ecology and management of invasive *Pomacea maculata* in the southeastern United States. Invited and accepted for 2nd edition of *Global Advances in Ecology and Management of Golden Apple Snails*.
- Hayes, K.A, **R. L. Burks**, A. Castro-Vazquez, P. C. Darby, H. Heras, P. R. Martín, J.-W. Qiu, S. C. Thiengo, I. A. Vega, T. Wada, Y. Yusa, S. Burela, M. P. Cadierno, J. A. Cueto, F. A. Dellagnola, M. S. Dreon, M. V. Frassa, M. Giraud-Billoud, M. S. Godoy, S. Ituarte, E. Koch, K. Matsukura, M. Y. Pasquevich, C. Rodriguez, L. Saveanu, M. E. Seuffert, E. E. Strong, J. Sun, N. E. Tamburi, M. J. Tiecher, R. L. Turner, P. L. Valentine-Darby & R. H. Cowie. 2015. Insights from an integrated view of the biology of apple snails (Caenogastropoda: Ampullariidae). *Malacologia* 58(1-2): 245-302.

2014

- **Burks, R. L.**, A. Miller and A. Hill. CABI Compendium project on *Pomacea maculata*. Draft posted & under review (Not traditional peer-review): <http://www.cabi.org/isc/datasheet/116486>
- Liebl, M.* , K. Roberts*, A. Mohammed*, M. Lowther*, E. Navaira*, A. Frankel*, S. Pukys and **R. L. Burks**. 2014. Staying SMARt: Introduction and assessment of a one-on-one inquiry model to teach the scientific method to elementary school students. *Science Education and Civic Engagement: An International Journal* 6(1): 32-44. PDF: <http://d320goqmya1dw8.cloudfront.net/files/secej/winter14/smart.pdf>

2013

- Kyle, C. H.* , A. Plantz*, T. Shelton and **R. L. Burks**. 2013. Count your eggs before they invade: Identifying and quantifying egg clutches of two invasive apple snail species (*Pomacea*). *PLoS One* Open Access. <http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0077736>

2012

- **Burks, R. L.** 2012. One McBug Burger Please: Eating insects in ecology class to contextualize climate change discussion. *EcoEd*, <http://ecoed.esa.org/index.php?P=FullRecord&ID=383>.

2011

- Kyle, C. H.* , A. W. Kropf and **R. L. Burks**. 2011. Prime waterfront real estate: Apple snails choose wild taro for oviposition sites. *Current Zoology* 57(5): 630-641.
- **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. *Journal of Molluscan Studies* 77(4): 423-428.

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 (not peer-reviewed):

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).
- 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.
- 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.]

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.

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.

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.

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.
- **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.

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.
- **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.

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.

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.

EXTERNAL FUNDING

2012	National Science Foundation, Research Opportunity Award, \$19,815 (via R. Cowie)
2011-2015	National Science Foundation, International Research Experience for Students IRES-AMPLIFIED (\$72,075 to SU; \$77,877 match to Univ. Hawaii)
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) and Sprouts (\$50)
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

UNIVERSITY-SUPPORTED PROFESSIONAL ACTIVITY

2015: HHMI Faculty-Student Collaboration (~\$12,000); Mellon Foundation Support for Environmental Studies (~\$5000)
 2014: HHMI Faculty-Student Collaboration (~\$16,750); HHMI Pedagogical Project (\$2500); \$400 Non-competitive; Competitive Faculty Development (\$5000).
 2013: HHMI Faculty-Student Collaboration (\$14,445); \$1400 Non-competitive; \$1000 supplies for molecular project through Faculty Competitive Professional Development
 2012: Faculty-Student Collaborative Projects Development Funding (\$6400); \$1400 Non-competitive
 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
 2007: Cullen Faculty Funds for International Travel (\$2000), SIL in Montreal
 Fleming Funds, Southwestern Undergraduate Research Group Experience
 Brown Fund for Innovation in Teaching, 2007 (\$1250)
 2006: Brown Junior Fellowship for Fall 2006 (3 course release + \$5000 in stipend and expenses)
 2005: Mundy Fellowship for Collaborative Research, 2005 (~\$4000)
 Fleming Funds, Biology Summer Research Program Participant, 2005, 2006
 2004: Cullen Faculty Fellowship, 2003-2004 (\$4700)
 2003: Faculty Development Enhance Grant (\$5000), Rhodes College

TRAVEL GRANTS

- American Museum of Natural History, \$1330 for workshop participation at Ecological Society of America
- Additional Southwestern University Professional Development Funds:
 - \$700 (Sept. 2008) for networking trip to Georgia Tech University in Atlanta, Georgia
 - \$315 (Sept. 2006) for NSF Meeting in Washington, D.C.
- ACS Environmental Summit at Morehouse College (Feb. 2005)
- ACS Keck Workshop on Improving Non-major Science Education (Nov. 2004)
- UND Biological Sciences, Graduate Professional Development Fund (6/2000), \$450
- North American Benthological Society General Endowment Fund (05/2000), \$300
- American Society of Limnology and Oceanography Grant (06/1998), \$400
- UND Gordon Grants: 5 grants (totalling \$1542 covering period of 02/1997 – 08/2000)
- UND Zahm Grant for international research travel to Denmark (06/1997), \$1250

PEDAGOGICAL INTERESTS

- Examining the integration between teaching and research
- Encouraging critical thinking analysis through hands-on activities with graphing and statistics
- Understanding and improving the mentoring process
- Inquiry-based teaching and learning

MENTORING EXPERIENCE (i.e. UNDERGRADUATE RESEARCHERS)

New students (Spring 2015 – Summer SCOPE 2015):

Carissa Bishop, SU Junior

Sarah Wilting, SU Junior

Animal Behavior-oriented students with projects under development:

11/2013 – present **Ryan Beeman**, SU Junior

Morphometrics of different life history stages of *Pomacea maculata*

11/2013 – present **Averi Segrest**, SU Senior

Behavioral impacts of attached invasive bivalves on apple snails

Molecular ecology researchers with established independent projects:

11/2013 – present **Sofia Campos**, SU Senior (2014 HHMI SCOPE summer student)

Phylogenetics and phylogeography of *Pomacea* spp. in Uruguay

07/2014 – present **Paul Glasheen**, SU Senior

Hybridization potential of *Pomacea* in native range of Uruguay

Past SU Students (with at least two semesters of research):

01/2013 – 05/2015 **Carson Savrick**, '15 (BS Biology) Origin of established *Pomacea* across southeastern US

11/2013 – 05/2015 **Allie Watts** '15, (AB capstone; 2014 HHMI); Chemical cue responses to predators by hatchling *Pomacea maculata*

03/2013 – 01/2015 **Amy Miller** '16 (Jr. Yr. Work; 2013 HHMI & 13-14 UR) Genetic, anatomical and ecological work on *Felipponea*

08/2013 – 05/2014 **Rebecca Petro** '14 (BA Biology & Art), Pink Eggs I Am (Science and Art Communication using apple snails); employed as biologist for City of Georgetown, TX

06/2013 – 05/2014 **Amber Cochran** '14 (BS Biology), Hatchling apple snail growth and survival; focus *P. megastoma*

05/2013 – 03/2014 **Alex Petrucci** '16, GIS Project with *Pomacea*

03/2013 - 08/2013 **Alexandria Hill** '13 (BS Biology); Turtle predation on hatchlings; *Applying to pharmacy school*

09/2011 – 05/2014 **Jonathan Miley** '14 (BA Biology); Molecular ecology and potential hybridization of *Pomacea*

09/2009 – 08/2013 **Allyson Plantz** (BA Biology & Art); Egg predation by riparian predators & reproduction of *P. megastoma*; TCEQ; Peace Corps

04/2010 – 12/2012 **Tracy Day** (BA Biology, Music minor, Paideia Scholar); Establishing trophic position of *P. maculata*; Employed, Georgetown, TX)

01/2011 – 05/2012 **Katie Gibson** (BA Animal Behavior; Minor Environmental Studies; Paideia Scholar)

Putting on Mussel: Apple snail interactions with *Limnoperna*; *Employed at non-profit*

01/2011 – 05/2012 **Kevin Burge** (BA Biology; Minor Computer Science), pH impacts on hatchling apple snails

01/2009 – 05/2011 **Megan (Rice) Shelton** (BS Biology; 2011 Biology Student of the Year)

Disturbing environments: post-hatching survival of apple snails; *Medical Resident*

04/2008 – 05/2010 **Matthew Trawick** (BA Environmental Studies; Minor Biology), Hatchling survival success versus water stress; MS in Public Policy, Texas Tech; *Went to law school*

08/2008 – 05/2010 **Olivia Stanzer** (BS Biology), Persistence of pink: ecological role of ovorubin protein; *PhD student*

04/2009 – 08/2010 **Alexis Kropf** '12 (BA Biology, 2012 Biology Student of the Year, BA Anthropology), Relationship of fecundity & female snail size; *Medical student at UT Southwestern*

08/2008 – 05/2009 **Scott Manusov** (BS Biology) Natural and induced aggregation patterns in *P. insularum*. *Chemistry Lab technician and Science Tutor.*

04/2007 – 05/2009 **James McDonough** (BS Biology), Field oviposition in *P. insularum*; *Medical Resident*

01/2007 – 05/2009 **Colin Kyle** (BS Biology), **Honors Student**, Oviposition behavior of *P. insularum*. *Ph.D. student in quantitative ecology at University of Chicago*

08/2006 – 5/2008 **Sarah Hensley** (BS Biology), Juvenile consumption of exotic plants. *6th year Ph.D. student in microbiology at Univ. Massachusetts Amherst.*

04/2006 – 05/2007 **Abby Youens** (BA Biology), Growing at a Snail's Pace: Juvenile growth patterns. *Completed M.S. Public Health at UTHSC Houston; current medical student at UT Houston*

08/2004 – 05/2007 **Brandon Boland** (BS Biology, Paideia Scholar), Understanding mechanisms behind food choice in the channelled apple snails. *Ph.D. student in molecular nutrition at University of Chicago*

- 05/2005 – 06/2006 **Matthew Barnes** (BA Biology), **Honors Student**, The Snail and the Egg: understanding the egg-hatchling transition in apple snails. *Ph.D. 2013; Faculty member at Texas Tech University.*
- 08/2004 – 05/2005 **Cathy Duong** (BA Biology, Paideia Scholar), Temperature and chemical cues influences on diel horizontal migration of *Daphnia*. *Employed at corporate real estate firm working with tenants.*
- 08/2003 – 05/2005 **Rebecca Marfurt** (BA Environmental Studies), Life history and ecological impacts of the exotic channelled apple snail, *Pomacea "canaliculata (now P. insularum)."* *M.S. Aquatic Ecology at Texas State. OK DEQ and now environmental consultant*
- 08/2003 – 08/2005 **Austin Hill** (BS Biology). Dual effects of pesticides and chemical cues on *Daphnia* growth and reproduction. *Finished M.S. at Texas State.*

EXTERNAL GRANTS FUNDED BY UNDERGRADUATES

- **Beeman:** 2015 Sigma Xi Grants-in-Aid (**\$400 awarded**)
- **Savrick:** 2014 Sigma Xi Grants-in-Aid (**\$500 awarded**)
- **Day:** 2012 Texas Academy of Sciences Research Award (**Funded for \$1000**)
- **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**)
- **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**)

EXTERNAL AWARDS EARNED BY UNDERGRADUATES

- **2015: Carson Savrick '15**, Best Oral Presentation in Freshwater Ecology Section; Texas Academy of Sciences; \$50 presented
- **2015: Averi Segrest '16**, Travel Grant (\$785) to Society for Freshwater Science as part of Instars Program.
- **2010: Colin Kyle '09**, Travel Grant (\$500) to Ecological Society of America to present undergraduate research. Strategic Environmental Research and Development Program, Defense Department.
- **2010: Colin Kyle '09**, National Science Foundation Graduate Research Fellowship
- **2010: Matt Trawick '10**, 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 '08**, 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 '07**, 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 '05**, Travel Award (\$285) to the Freshwater Mollusk Conservation Society Meeting in St. Paul, MN.

PEDAGOGICAL WORKSHOPS GIVEN

- March 2015: Best Professional Advice Ever Received; Panel Discussion, Texas Academy of Science, University of Incarnate Word, San Antonio, TX.
- February 2014: The Science of Chocolate. Art.Science.Gallery, Austin, TX.
- August 2013: REEFS (Resources for Ecology & Education: Fair and Share) Presentation. Flip-cams & iPhones make presentations smarter: Encouraging better oral communication skills through reflective practice. Ecological Society of America (ESA) Meeting.
- March 2013: How Connected Do Scientists Need to Be? A look at social media options. Texas Academy of Science, Schreiner University, Kerrville, TX
- August 2011: REEFS (Resources for Ecology & Education: Fair and Share) Presentation of "Insects on the Menu: Entomophagy, ecology and climate change." Ecological Society of America (ESA)

- August 2010: REEFS (Resources for Ecology & Education: Fair and Share) Presentation of Wetland Ecology and Policy Course. ESA annual meeting, Pittsburgh, PA
- March 2010: Teaching Tips and How to Write and Publish with Undergraduates; Texas Academy of Sciences, Tarleton State University
- March 2008 & November 2008: "Increase Your "Teach"nology: The Course Management System Sakai as a potential REAL time saver, paper preserver & student pleasing teaching tool." SU Brown Bag Workshop.
- April 2008, Invited panelist, "State of the Faculty: How is the faculty of the liberal arts changing and what does this mean in relationship to their engagement with information technology?" Instructional Technology Leaders Conference, Washington & Lee University
- June 2006 & July 2005, SPSS and Basic Statistics Workshop. Centre College and St. Olaf College, respectively, Recruited by Associated Colleges of the South and NITLE

COURSES TAUGHT AT SOUTHWESTERN (in approximate frequency taught)

- Biodiversity (Every Fall; 30+ sections)
- Methods in Ecology and Evolution (Every Spring)
- Ecology (alternate Spring; sections – see syllabus links on webpage or below)
 - Burks, R. L. 2012. Campus Ecology at Southwestern University
 - <http://ecoed.esa.org/index.php?P=FullRecord&ID=438>
- First Year Seminar: Dark Chocolate: Science and Culture (Fall when possible)
- Invertebrate Ecology/Biology (Every other Spring)
- Introduction to Animal Behavior
- Writing About Science (May Term 2012)
- Wetland Ecology and Policy (cross-listed with Environmental Studies)

Taught but now rotated out of sequence:

- Paideia Seminar (6 semesters)
- Senior Seminar: Aquatic Invasive Species
- Environmental Science (POK)
- First Year Seminar Wet N' Wild: Wetland Science in a Changing Landscape

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.

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)

- **Burks, R. L.,** C. Savrick*, A. D. Cochran*, A. L. Plantz*, R. Beeman* and K. A. Hayes. December 2014. Not all apple snails are invasive: Fecundity, life history, identity and distribution of native *Pomacea megastoma* in Uruguay. Invited oral presentation in Ampullariidae session of 3rd Uruguayan Congress of Zoology.
- Hayes, K. A. and R. L. Burks. December 2014. Systematics, biogeography and conservation of apple snails (Caenogastropoda: Ampullariidae) of the Río de la Plata Basin. Invited oral presentation in Ampullariidae session of 3rd Uruguayan Congress of Zoology.

- **Burks, R. L.,** A. L. Plantz*, M. E. Rice* and T. V. Day*. August 2011. Living on the edge: Potential fates of apple snail (*Pomacea insularum*) eggs laid on emergent vegetation in riparian areas. Special Session: "Pair Power." Ecological Society of America, Austin, TX.
- **Burks, R. L.,** O. D. Stanzer*, M. E. Rice*, A. L. Plantz*, A. W. Kropf* 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.
- **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.
- **Kyle, C. H.*,** J. P. McDonough* and **R. L. Burks.** November 2008. Location, location, location: oviposition preferences of the exotic, invasive applesnail, *Pomacea insularum*. Poster presentation, 2008 International Shallow Lakes
- **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.
- **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.
- **Burks, R. L.,** B. B. Boland*, M. A. Barnes*, M. Meerhoff, C. Fosalba and N. Mazzeo. May 2006. The Tale of Two Snails: Comparing and contrasting the ecological roles of a natural versus exotic population of *Pomacea*. Oral Presentation in Applesnail Session. International Conference on Aquatic Invasive Species, Key Biscayne, FL.
- **Hill, A. E.*** and **R. L. Burks.** February 2005. What doesn't kill you...may give cues to survival: N vs. P pesticides uniquely impact reproduction in *Daphnia magna* at different scales. American Society of Limnology and Oceanography (ASLO) Aquatic Sciences Meeting. Poster Presentation in Special Session in Undergraduate Research. Salt Lake City, UT.
- **Burks, R. L.,** H. Michels, M. D. G. Sagrario, and E. Jeppesen. February 2005. Spineless...but not wimpy: Invertebrate predator *Chaoborus* prompts diel horizontal migration of large-bodied *Daphnia*. ASLO Aquatic Sciences Meeting. Poster Presentation, Special Session: The Role of Zooplankton Predator-Prey Interactions in Structuring Plankton Communities. SL, UT.
- **Burks, R. L.** July 2004. Hierarchical responses by *Daphnia* to multiple cues in shallow lakes. INTECOL - International Wetlands Conference. Invited Special Session: Macrophytes & lakes. Utrecht, The Netherlands.
- **Burks, R. L.** February 2003. Cues, cues and more cues. *Daphnia* swim away from *Chaoborus*, crushed-up conspecifics and pelagic lake water chemical cues. American Society of Limnology and Oceanography (ASLO) Aquatic Sciences Meeting, Special Session: Tribute to John Gilbert. Salt Lake City, UT.
- **Burks, R. L.,** A. C. Haines*, and D. M. Lodge. June 2002. Do littoral and pelagic zones 'smell' different? Daphnid behavioral responses to chemical cues from whole lake zones, macrophytes and multiple predators. Poster Presentation in Special Session: Habitat Coupling. ASLO. Victoria, British Columbia.
- **Burks, R. L.,** E. Jeppesen and D. M. Lodge. June 2000. *Daphnia* in littoral zones: costs and benefits associated with diel horizontal migration in shallow lakes. Invited Oral Presentation, Special Session: The role of aquatic macrophytes in lakes. ASLO. Copenhagen, Denmark.
- **Burks, R. L.,** E. Jeppesen and D. M. Lodge. May 2000. Planktivorous fishes indirectly enhance prey resources (*Daphnia*) for predacious benthic macroinvertebrates. Invited Presentation, Special Session: The role of fish in benthic food webs. North American Benthological Society (NABS), Colorado.
- **Burks, R. L.,** E. Jeppesen and D. M. Lodge. May 1999. Responses of pelagic and littoral macroinvertebrates to fish cue and foraging in experimental mesocosms. Special Session: Benthic-Pelagic Linkages, NABS, Duluth, Minnesota.
- **Burks, R. L.,** E. Jeppesen and D. M. Lodge. October 1998. Chemicals from macrophytes depress *Daphnia*

growth in shallow lakes. Invited Presentation. Oikos Nordic Ecology Symposium, Lund, Sweden.

- **Snively, R. L.** (maiden name) and D. M. Lodge. February 1997. Littoral zone structures reduce *Daphnia* mortality due to fish predation. Special Session: Fish-Zooplankton Interactions. ASLO Aquatic Sciences, Sante Fe, New Mexico, USA.

Category 2: CONTRIBUTED PAPERS AT NATIONAL OR REGIONAL CONFERENCE

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

- Segrest, A.,* C. Clavijo, K. A. Hayes and **R. L. Burks**. 2015. Sex despite the cost: Attachment of *Limnoperna fortunei* (Dunker, 1857) alters apple snail activities in native *Pomacea* species (Lamarck, 1822). Poster Presentation. Society for Freshwater Science, Milwaukee, WI.
- Campos, L. S.*, C. Clavijo, F. Scarabino, **R. L. Burks** and K. A. Hayes. 2015. A tale of two species: Comparative phylogeography and genetic diversity of *Pomacea canaliculata* and a putative cryptic congeneric in the Rio de la Plata Basin. Oral Presentation, Texas Academy of Science, Systematics and Evolutionary Biology, University of the Incarnate Word, San Antonio, TX.
- Savrick, C.*, **R. L. Burks** and K. A. Hayes. 2015. Spread of invasive *Pomacea maculata*, Perry, 1810 (Ampullariidae) in the southeastern United States. Oral Presentation, Texas Academy of Science, Freshwater Science, University of the Incarnate Word, San Antonio, TX.
- Segrest, A.,* C. Clavijo, K. A. Hayes and **R. L. Burks**. 2015. Cling on me: Impacts of settlement of invasive *Limnoperna fortunei* (Dunker, 1857) on the native *Pomacea* spp (Lamarck, 1822) in Uruguay. Oral Presentation, Texas Academy of Science, Freshwater Science, University of the Incarnate Word, San Antonio, TX.
- Watts, A.* and **R. L. Burks**. 2015. Cued in: Hatchling *Pomacea maculata* behavioral responses to predator chemical cues. Oral Presentation, Texas Academy of Science, Freshwater Science, University of the Incarnate Word, San Antonio, TX.

Previous:

- Cochran, A. D.* and **R. L. Burks**. 2014. Why bigger may not always be better: a comparison of hatchling development of two apple snail species, *Pomacea maculata* and *Pomacea megastoma*. Oral Presentation, Texas Academy of Science, Freshwater Science, Texas A&M Galveston, TX.
- Cochran, A. D.* and **R. L. Burks**. 2014. Go snail! Grow: Hatchling growth of *Pomacea maculata* under predation stress. Poster Presentation, Texas Academy of Science, Freshwater Science, Texas A&M Galveston, TX.
- Petrucci, A.*, A. E. Miller*, A. Hill* and **R. L. Burks**. 2014. Like water for snails: A case study of Emerald Lake as a system invaded by apple snails (*Pomacea maculata*). Poster Presentation, Texas Academy of Science, Freshwater Science, Texas A&M Galveston, TX.
- **R. L. Burks**, A. E. Miller*, A. Hill* and A. L. Plantz*. 2014. How Do You Like Your Eggs (and Hatchlings)? Red-eared slider turtle (*Trachemys scripta elegans*) predation of developing apple snails (*Pomacea maculata*). Oral Presentation, Texas Academy of Science, Freshwater Science, Texas A&M Galveston, TX.
- Petro, R.* 2014. Pink Eggs I am: The making of a clutch deposit informing the public about the invasive apple snail (*Pomacea maculata*). Oral Presentation, Texas Academy of Science, Science Education, Texas A&M Galveston, TX.
- Savrick, C.*, **R. L. Burks** and K. Hayes. 2014. Go west young snails: Origins of invasive *Pomacea maculata* in Louisiana. Poster Presentation, Texas Academy of Science, Freshwater Science, Texas A&M Galveston, TX.
- **Burks, R. L.**, E. J. Sterling, A. L. Porzecanski, N. Bynum, A. Bravo, D. S. Fernandez, T. A. Langen, J. M. Linder and D. E. Ruby. 2013. Practice does not make quite perfect but does build student confidence in oral communication skill. Education Pedagogy and Assessment. Ecological Society of America Meeting, Minneapolis, MN.
- Plantz, A. L.*, C. Clavijo, A. Röhrdanz, K. Gibson*, F. Scarabino and **R. L. Burks**. 2013. The apple doesn't fall far from the tree: Reproductive characterization of the newly renamed apple snail, *Pomacea megastoma*. Oral Presentation, Texas Academy of Science, Schreiner University, Kerrville, TX.
- Miley, J. O.*, A. L. Plantz*, Tracy V. Day* and **R. L. Burks**. 2013. Double trouble for local salamanders: substrate and food availability for two populations of the endangered Georgetown salamander, *Eurycea naufragia*. Oral Presentation, Texas Academy of Science, Schreiner University, Kerrville, TX.
- Day, T. V.* and **R. L. Burks**. 2013. Title. My omnivore dilemma: Diet flexibility in two different apple snails, *Pomacea maculata* and *P. canaliculata*. Texas Academy of Science, Schreiner University, Kerrville, TX.
- Porzecanski et al. (Burks = 7th of 19 authors). 2012. How much can students gain in data analysis and critical thinking skills in one semester? Oral Presentation in Education Research and Assessment. Ecological Society of America. Portland, OR.
- Plantz, A. L.* and **R. L. Burks**. 2012. The pink predicament: *Pomacea insularum* eggs fail to deter predation by red-

eared sliders (*Trachemys scripta elegans*). Oral Presentation, Texas Academy of Science, Sul Ross University, Alpine, TX.

- Liebl, M.*, K. Roberts*, S. Pukys and **R. L. Burks**. March 2012. Staying SMARt: Assesment of a one-on-one inquiry model to teach the scientific method to elementary school students. Oral Presentation, Texas Academy of Science, Sul Ross University, Alpine, TX.
- Miley, J. O.*, A. L. Plantz*, Tracy V. Day* and **R. L. Burks**. March 2012. Microscopic buffet: Estimates of meiofauna availability for the Georgetown salamander in two permanent springs. Poster Presentation, Texas Academy of Science, Sul Ross University, Alpine, TX.
- Day, T. V.* and **R. L. Burks**. March 2012. Probably not snail eating plants: Enriched macrophyte N¹⁵ values in a stable isotope study of *Pomacea insularum*'s trophic interactions. Poster Presentation, Texas Academy of Science, Sul Ross University, Alpine, TX.
- Gibson, L. C.*, A. L. Plantz*, C. Clavo and **R. L. Burks**. March 2012. Putting on Mussel: Interactions between the Asian Golden Mussel (*Limnoperna fortunei*) and native ampullariid snails. Poster Presentation, Texas Academy of Science, Sul Ross University, Alpine, TX.
- Burge, K.* and R. L. Burks. March 2012. Frail snails: Effect of pH on the growth and survival rate in juvenile apple snails *Pomacea insularum* Effect of pH on the growth and survival rate in juvenile apple snails *Pomacea insularum*. Poster Presentation, Texas Academy of Science, Sul Ross University, Alpine, TX.
- 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.
- 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.
- 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.
- 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.
- **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 North American Benthological Society, Sante Fe. NM.
- 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.
- 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.
- 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.
- **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.
- 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.
- 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, TX.
- Kyle, C.H.*, J. P. McDonough and **R. L. Burks**. March 2009. Location, location, location: oviposition preferences of the exotic, invasive apple snail, *Pomacea insularum*. Oral Presentation, Texas Academy of Science, Junction, TX.
- 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.
- **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.
- Hensley, S.*, C. H. Kyle*, J. P. McDonough* and **R. L. Burks**. March 2008. Small snails grow up fast: Feeding preferences, habitat choice and growth of juvenile applesnails (*Pomacea insularum*) in the presence of *Procambarus clarkii*. Oral Presentation, Texas Academy of Science, Corpus Christi, Texas.
- Kyle, C. H.*, J. P. McDonough and **R. L. Burks**. March 2008. Location, Location, Location: Laboratory experiment

shows invasive *P. insularum* chose elephant ear as oviposition sites. Oral Presentation, Texas Academy of Science, Corpus Christi, Texas.

- McDonough, J. P.*, C. H. Kyle and **R. L. Burks**. March 2008. Pink Eggs and Snails: Comparison of field and lab oviposition behavior in *Pomacea insularum*. Oral Presentation, Texas Academy of Science, Corpus Christi, Texas.
- Youens, A. K.*, B. B. Boland* and **R. L. Burks**. March 2007. Growing at a Snail's Pace: Negative impacts of salinity and high density on growth measures of *Pomacea insularum*. Oral Presentation, Texas Academy of Science, Waco, Texas.
- Boland, B. B.*, A. K. Youens*, M. Meerhoff, C. Fosalba, N. Mazzeo and **R. L. Burks**. March 2007. Juvenile Snails, Adult Appetites: Contrasting resource consumption between two species of applesnails. Oral Presentation, Texas Academy of Science, Waco, Texas.
- Barnes, M. A.*, A. K. Youens*, S. A. Hensley* and **R. L. Burks**. March 2007. In Too Deep: Egg clutch water exposure may suppress hatching and increase increase conspecific predation of eggs in the potentially invasive applesnail, *Pomacea insularum*. Oral Presentation, Texas Academy of Science, Waco, Texas.
- Barnes, M.A.*, B. B. Boland*, M. Meerhoff, C. Fosalba, N. Mazzeo, and **R. L. Burks**. June 2006. That's the way the egg hatches: Determining patterns in egg size, clutch variability, and hatchling emergence in an exotic versus native population of applesnails. Poster Presentation, North American Benthological Society, Anchorage, AK.
- Boland, B.*, M. Meerhoff, C. Fosalba, N. Mazzeo, and **R. Burks**. June 2006. Distinct palettes: feeding preferences between native and exotic applesnail populations and the implications for invasion. Poster Presentation, North American Benthological Society, Anchorage, AK.
- Boland, B.*, M. Meerhoff, C. Fosalba, N. Mazzeo, and **R. Burks**. March 2006. Distinct palettes: Feeding preferences between native and exotic applesnail populations. Oral Presentation, Texas Academy of Science, Beaumont, TX.
- Barnes, M. A.* and **R. L. Burks**. March 2006. The Snail or the Egg? Early life history factors contribute to invasive success of applesnails. Oral Presentation, Texas Academy of Science, Beaumont, TX.
- Marfurt, R. K.*, B. Boland*, and **R. L. Burks**. June 2005. Life history variation in invading applesnails (*Pomacea canaliculata*) may pose ecological threat to wetlands. Poster Presentation at North American Benthological Meeting, New Orleans, LA.
- Marfurt, R. K.* and **R. L. Burks**. May 2005. Invaders from the South: Ecology of the Channeled Applesnail. Poster Presentation at Freshwater Mollusk Conservation Society, St. Paul, MN.
- Marfurt, R. K.* and **R. L. Burks**. February 2005. Invaders from the South: Ecology of the Channeled Applesnail. Oral presentation for Associated Colleges of the South Environmental Summit, Atlanta, GA.
- Haines, A. C.*, **R. L. Burks** and D. M. Lodge. June 2001. Impact of chemical cues from odonates fed different diets on daphnid growth and reproduction. Poster Presentation, NABS, La Crosse, Wisconsin.
- **Burks, R. L.**, E. Jeppesen and D. M. Lodge. August 1998. Chemicals from macrophytes and fishes depress *Daphnia* growth in shallow lakes. Poster Presentation, Shallow Lakes '98 Conference, Blossin, Germany.
- Beklioglu, M., F. Landkildehus, E. Jeppesen, M. Søndergaard, O. Ince and **R. L. Burks**. August 1998. Diel changes in distribution of plant-associated microcrustaceans at contrasting densities of 0+ perch (*Perca fluviatilis*) and macrophytes. Oral Presentation, Shallow Lakes '98 Conference, Blossin, Germany.
- Lauridsen, T. L., E. Jeppesen, S. Mitchell, D. M. Lodge and **R. L. Burks**. August 1998. Horizontal distribution of zooplankton in lakes with contrasting fish densities and nutrient levels. Oral Presentation, Shallow Lakes '98 Conference, Blossin, Germany.
- **Burks, R. L.**, E. Jeppesen and D. M. Lodge. June 1998. Chemicals from macrophytes and fishes suppress *Daphnia* growth in shallow lakes. Poster presentation. Trophic Interactions. ASLO and The Ecological Society of America (ESA) Joint Meeting, St. Louis, MO, USA.

OTHER INVITED LECTURES AND PRESENTATIONS

- ♣ **Burks, R. L.** The science of chocolate. Presentation for SU DC Alumni Association February 2013.
- ♣ **Burks, R. L.** Building a strong research shell: Development of an externally funded, international, undergraduate research program. ECODAS Symposium, Honolulu, Hawaii. October 2012
- ♣ **Burks, R. L.** Chocolate, Science and More: melding your hobbies with your academic life. ECODAS Symposium, Honolulu, Hawaii. October 2012
- ♣ **Burks, R. L.** One Bad Apple Snail Spoils the Bunch: What I learned on my summer work-cations about apple snails. Guest Researcher at Armand Bayou Nature Center. September 2012
- ♣ **Burks, R. L.**, A. L. Plantz*, M. E. Rice* and T. V. Day*. Living on the edge: Potential fates of apple snail (*Pomacea insularum*) eggs laid on emergent vegetation in riparian areas. St. Edward's University Seminar Series. September 2011.
- ♣ **R. L. Burks**. Two snails are not better than one: Basic ecology suggests that the invasive potential of the island apple snail, *Pomacea insularum*, could surpass its more notorious relative, *P. canaliculata*.

Department of Limnology, Lund University, Sweden, March 2010.

- ▲ **R. L. Burks.** The light and dark side of buying good chocolate. Midland Country Club. February 2010.
- ▲ **R. L. Burks.** The Wonders of Chocolate. University of Mary Hardin Baylor. February 2009.
- ▲ **R. L. Burks.** The Wonders of Chocolate in the Liberal Arts. Midland, TX. April 2008.
- ▲ **R. L. Burks.** Tale of Two Snails. March 2006, Baylor University. October 2006. Loyola University Chicago.
- ▲ **R. L. Burks** and M. A. Barnes.* Feb. 2006. Tale of Two Snails. Rice University.
- ▲ **R. L. Burks.** December 2005. Going from Top to Bottom: Connecting Lessons Learned from Research with *Daphnia* and Snails. Facultad de Ciencias, Universidad de Republica de Montevideo, Uruguay.
- ▲ **R. L. Burks** and R. Marfurt. March 2005. Abiotic and biotic life history influences on the channelled applesnail (*Pomacea canaliculata*). United States Department of Agriculture Mollusk Action Plan Working Group Meeting. Houston, TX.
- ▲ **R. L. Burks.** March 2004. What about the flipside? Reorienting one's view of *Daphnia* migration in shallow lakes. Texas State University.
- ▲ **R. L. Burks.** 2002/3 Littorally complex: Understanding food web interactions in shallow lakes (Bucknell University, Muhlenberg College, Oglethorpe University, Rowan University, University of Central Arkansas, Southwestern University, University of Tampa).
- ▲ **R. L. Burks.** 2002. To Switch or Not To Switch? How *Daphnia* and aquatic plants act to stabilize alternative stable states in lakes. Austin College.
- ▲ **R. L. Burks.** 2001. *Daphnia* in littoral zones: potential costs and benefits associated with diel horizontal migration in shallow lakes. University of Memphis.

ON-CAMPUS PRESENTATIONS ONLY

- ▲ **Thomas, A. G.***, S. Pukys and **R. L. Burks.** April 2009. Ecology in the Public Sphere: Hands-on experience accruing bioassessment data of local stream system. Poster, FEV-SUS.
- ▲ **McDonough, J. P.***, C. H. Kyle*, and **R. L. Burks.** July 2007. The Flow of Research: in Aquatic Ecology: How ecologists reach a research question. Poster presentation. Southwestern Undergraduate Research Group Experiences (SURGE) Banquet.
- ▲ **Boland, B. B.*** and **R. L. Burks.** April 2007. A World Apart. Biology Oral Capstone Presentation, Biology Seminar Series.
- ▲ **Youens, A. K.*** and **R. L. Burks.** April 2007. Moving to Houston: The exotic invasive applesnail *Pomacea insularum*. Biology Oral Capstone Presentation, Biology Seminar Series.
- ▲ **Burks, R. L.**, M. A. Barnes* and B. B. Boland*. April 11th 2006. A Tale of Two Snails: Collaborative research experiences with applesnails. Board of Visitors.

ON-CAMPUS PRESENTATIONS by students only

- ▲ **Sessions, W., R. Jacob, A. Hamala, L. Galvez and B. Tyler.** 2012. Worming Your Way Around: Mutualistic relationship with purple kale. *Ecology group project.* Poster, FEV-SUS.
- ▲ **Ortega, B., I. Cruishank, C. Penland, A. Granado and N. Tejada.** 2012. "Fun"gi Research: Mycorrhizae as best friend for Tuscan and Curly Kale. *Ecology group project.* Poster, FEV-SUS.
- ▲ **Massey, J., B. O'Connor, A. Plantz, R. Saurage, O. Stanzer and M. Trawick.** April 2010. Snakes, Snails and Yuppy Naturalist Tails: A Video Documentary of the Response of Biological Invasion in Texas and Florida. King Creativity Symposium.
- ▲ **Trawick, M. K., A. Kropf and V. Toro.** Oct. 2009. You've got snail! Recent invasion of the Everglades by *Pomacea insularum*. Biology Seminar Series, Southwestern University.
- ▲ 4 high school students. July 16th 2010. Solving the Crazy Apple Snail Mystery. Poster Presentation, Vicente Villa Summer Scholars Program.
- ▲ 3 High School Students. July 31st 2010. Crazy Snail, Exotic Pet or Both? Poster Presentation, Vicente Villa Summer Scholars Program.

UNIVERSITY SERVICE:

2013 – current Civic Engagement Advisory Board
2012 – current Gender Equity Task Force
2012 – current Library Committee
2010 - current Environmental Studies Committee (2012-2014 Co-Chair)

2004 – current	Animal Behavior Committee
2011 – 2013	Internal Awards Committee
Fall 2011	Homecoming: Classes without Quizzes
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 Marketing and Advisory Board
2005 - 2007	Cullen Faculty Development Committee
2005 - 2008	Intercultural Perspective Committee
2002 - 2006	Environmental Studies Program Committee (completed 5-year review)

DEPARTMENTAL SERVICE - Southwestern University

- Webmaster for Department sites
- Creator and Publisher of *BioScope*, Biology Department newsletter (22 issues as of 08/13)
- Participant in Biology Department 5-year and 10-yr Reviews, Curricular Reform and Grant Preparations for Howard Hughes Grant and three Search Committees
- Secondary Capstones (beyond lab research):
 - Anna Frankel '09, Alonzo Thomas '09, Rachael Manly '09, Kayla Odom '10
 - UL Course Capstone Advisor & Internships: Jason Jones '07, Josh Weinstein '07, Josh Watson '08, Jean Herberger '08 and Jacob Dickson '08, Amanda Mohammed '08; Capstone Committee: Jana Marshall, Aaron Guel; ES Intern Supervisor: Sarah Wolters, Courtney Blechel

COMMUNITY SERVICE

- Organized Fleming Science Lecture – November 2013
- Friends of the Fine Arts, Lecture – Four scientific reasons why we love chocolate (2/14/13)
- 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)

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

PROFESSIONAL MEMBERSHIPS

- 2013 – present, American Association of University Professors (AAUP), member and President SU Chapter
- 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
 - 2012, Past-President
 - 2011, President
 - 2010, President-Elect
 - 2009, Vice President
 - 2007, Chair for Marine and Freshwater Section
 - 2006, Vice-Chairperson for Marine and Freshwater Ecology Section
- 1997 – present, Ecological Society of America (ESA) member
 - 2010-2011, RUI Section Chair
- 1992 – present, Society for Freshwater Science (formerly 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
- 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
- 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

REVIEWER ACTIVITIES (JOURNALS)- *Acta Oecologia, Animal Behaviour, Aquaculture, Biological Invasions, Diversity and Distributions, Fresenius Environmental Bulletin, Archiv für Hydrobiologia, Canadian Journal of Fisheries and Aquatic Sciences, Ecology, Ethology, Freshwater Biology, Frontiers in Ecology and Evolution, Functional Ecology, Hydrobiologia, Invertebrate Reproduction and Development (New for 2015), Journal of Chemical Ecology, Journal of Ecology, Journal of Experimental Marine Biology and Ecology, Journal of the North American Benthological Society (new -now Society of Freshwater Science), Limnology and Oceanography, Marine & Freshwater Research, Studies on Neotropical Fauna and Environmental (New for 2015) 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:

- 08/15/2014: Twitter as a Teaching Tool
 - <http://www.southwestern.edu/live/news/9845-twitter-as-a-teaching-tool>
- 05/29/2012: Experiment with Science Writing
 - <http://www.southwestern.edu/live/news/6853-experimenting-with-science-writing>
- 06/15/2011: 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>
- 11/22/08: SU Website: Thanksgiving in Uruguay (about research trip to South America)
 - <http://www.southwestern.edu/newsroom/story.php?id=431>
- 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>
- 07/09/08: BEN Scholar Bio:
 - <http://www.bioscienet.org/portal/about/benScholarsBios2008.php>
 - 07/02/07 SU Website: Biology professor selected to participate in national program:
 - <http://www.southwestern.edu/cgi-bin/newsroom/article.cgi?id=92>
- 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>
- 4/14/08: Professor to cook up chocolate standard for education
 - http://www.mywesttexas.com/articles/2008/04/14/news/top_stories/education_foundation_sunday.prt

Research:

- February 2014: Environmental Studies Scholar Profile
 - <http://www.southwestern.edu/live/news/8962-dr-romi-l-burks>
- November 2013: International researchers
 - <http://www.southwestern.edu/live/news/8789-international-researchers>
 - Gallery: <http://www.southwestern.edu/live/galleries/656-international-researchers>
- June 2013: Alex Hill of Wichita Falls Conducting Biological Research at Southwestern
 - <http://readme.readmedia.com/Alex-Hill-of-Wichita-Falls-Conducting-Biology-Research-at-Southwestern-University-this-Summer/6758598>
- February 2013: Southwestern University Students, Faculty Members Presenting at TAS
 - <http://www.southwestern.edu/live/news/7771-southwestern-students-faculty-members-presenting>
- January 2012: Research that Hits Home
 - <http://www.southwestern.edu/live/news/6414-research-that-hits-home>
- September 2011: Southwestern Professor Receives \$72,000 National Science Foundation Grant
 - <http://www.southwestern.edu/live/news/5684-southwestern-professor-receives-72000-national>
- March 2011: Student Spotlight: Allyson Plantz

- “SU sophomore on the trail of an elusive snail” *The Williamson County Sun*, 03/09/11
- 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/>
- 01/18/06: *The Williamson County Sun*; “Sizable snails lure SU Prof, student to Uruguay”
- Southwestern University Student, Professor To Spend Holidays Conducting Research In Uruguay
 - <http://www.southwestern.edu/newsroom/news/051205.html>

Outreach:

- 06/17/12: “Georgetown-Based Foundation Endows Math and Science Mentoring Program”
 - <http://www.southwestern.edu/live/news/6894-georgetownbased-foundation-endows-math-and-science>
- 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”