

**CURRICULUM VITAE**  
**CAROL M. ANELLI** (formerly **SHEPPARD**)  
Professor of Entomology  
Washington State University  
Pullman, WA 99164-6382

**EDUCATION**

- B.A. Biology, Southern Connecticut State University, New Haven, CT (1975)  
M.S. Entomology, University of Illinois at Urbana-Champaign (1982)  
Ph.D. Entomology, University of Illinois at Urbana-Champaign (1988)

**PROFESSIONAL EMPLOYMENT**

- 2011-present Professor of Entomology and Faculty Fellow, Office of Assessment of Teaching and Learning (WSU)  
2008-2010 Associate Dean and Thesis Director, Honors College (WSU)  
2007-2008 Interim Honors Thesis Director and Honors College Faculty Fellow  
2004-2011 Associate Professor of Entomology, Honors College Faculty member  
1998-2004 Assistant Professor of Entomology (tenure-track), Honors College Faculty member  
1996-1998 Assistant Professor of Entomology (non-tenure track, temporary)  
1997 spring Visiting Professor, Department of Biological Sciences, University of Idaho, Moscow  
1995-1996 Assistant Professor of Biology, University of Scranton, Scranton, PA  
1992-1995 National Research Council Fellow, National Institutes of Health (NIH), NICHD, Laboratory of Cellular and Molecular Neurophysiology, Bethesda, MD  
1992;1996 Entomology Consultant, *Time-Life* Books for Children  
1990-1992 Postdoctoral Research Entomologist, USDA/ARS, Insect Biocontrol Laboratory, Beltsville, MD  
1990 summer Historical/Archival Research Associate to Dr. Edward H. Smith, Emeritus Professor of Entomology, Cornell University  
1987-1990 Postdoctoral Research Physiologist, USDA/ARS, Insect Reproduction Laboratory (now Insect Neurobiology and Hormone Laboratory), Beltsville, MD  
1979-1987 Teaching Assistant, School of Life Sciences; and Research Assistant, Department of Entomology, University of Illinois  
1975-1979 Immunology Research Technician, Yale University Medical School

**AWARDS AND HONORS**

- 2011 Honors Student Advisory Committee sponsored person for "Relay for Life"  
2010 Anna Sue McNeill Assessment, Teaching & Learning Award  
Faculty Library Excellence Award, WSU  
2009 Sahlin Faculty Excellence Award for Instruction, WSU  
Outstanding Mentor nominee, WSU 14<sup>th</sup> Annual Woman & Leadership Forum  
Keynote address, WSU Convocation (<http://convocation.wsu.edu/default.asp?PageID=2105>) (see *WSU Today* 21 Aug)

## **AWARDS AND HONORS (continued)**

- 2009 Distinguished Achievement Award in Teaching, Entomological Society of America
- 2007 Presentation of medallion by Provost Bates for service on WSU Teaching Academy
- 2006 Gary Simmons Memorial Lecturer, Michigan State University, Department of Entomology  
Outstanding Mentor nominee, WSU 11<sup>th</sup> Annual Woman & Leadership Forum  
Keynote Address, National Society of Collegiate Scholars Induction Ceremony, WSU
- 2005 Distinguished Member, National Society of Collegiate Scholars  
Outstanding Mentor nominee, WSU 10<sup>th</sup> Annual Woman & Leadership Forum
- 2002 University Honors College Faculty Award, WSU
- 2000 WSU Nominee, U.S. Professors of the Year Program, Carnegie Foundation for the Advancement of Teaching  
Honorary Member, Phi Eta Sigma National Honor Society  
Department of Entomology Nominee, R.M. Wade Excellence in Teaching Award, College of Agriculture and Home Economics (CAHE), WSU  
Department of Entomology and CAHE Nominee, National Awards Program for Excellence in College & University Teaching, Food & Ag. Sci., USDA-CSREES
- 1999 Marian E. Smith Award for Faculty Achievement (Innovative Instruction), WSU
- 1992 Research Associate Award, National Research Council, National Academy of Sciences
- 1987 Postdoctoral Research Fellowship, USDA/ARS
- 1986 List of Excellent Teachers (Spring & Fall semesters), University of Illinois
- 1985 List of Excellent Teachers (Spring & Fall semesters), University of Illinois
- 1981 Tuition and All Fees Award in Biology (Fall semester), University of Illinois  
List of Excellent Teachers (Spring semester), University of Illinois
- 1980 List of Excellent Teachers (Fall semester), University of Illinois

## **PROFESSIONAL ARTICLES, REFEREED**

**\*senior authorship** (*i.e.*, primary responsibility per CAHNRS guidelines)

- Wu, J.W., Smart, M.D., \*Anelli, C.M., and W.S. Sheppard. 2012. Honey bees (*Apis mellifera*) reared in brood combs containing high levels of pesticide residues exhibit increased susceptibility to *Nosema* (Microsporidia) infection. *J. Invertebr. Pathol.* **109**:326-329.
- \*Anelli, C.M. 2011. Scientific literacy: What is it, are we teaching it, and does it matter? *Am. Entomol.* **57**:235-244.
- Johnson, C.M., \*Anelli, C.M., Galbraith, B.J., and K.A. Green. 2011. Information literacy instruction and assessment in an honors college science fundamentals course. *College and Research Libraries* **72**:533-547.
- Wu, J., \*Anelli, C.M., and W.S. Sheppard. 2011. Sub-lethal effects of pesticide residues in brood comb on worker honey bee (*Apis mellifera*) development and longevity. *PLoS One* **6**:e14720.
- Prischmann, D., Steffan, S.A., and \*Anelli, C.M. 2009. "Insect Myths: An interdisciplinary approach fostering active learning." *Am. Entomol.* **55**:228-233.
- \*Anelli, C.M. and D. Prischmann. 2009. "Silk batik using beeswax and cochineal dye: an interdisciplinary approach to teaching entomology." *Am. Entomol.* **55**:95-103.

## PROFESSIONAL ARTICLES, REFEREED (continued)

- \*Anelli, C. and R. Law. 2008. An interdisciplinary examination of U.S. racism from *Mismeasure of Man to Invisible Man*. *Rocky Mountain Review Forum*, **62**:82-95.
- Krupke, C.H., Prasad, R. P., \*Anelli, C.M. 2007. Professional entomology and the 44 noisy years since *Silent Spring*: Part 2. Response to *Silent Spring*. *Am. Entomol.* **53**:16-25.
- \*Anelli, C.M., Krupke, C.H., Prasad, R.P. Prasad. 2006. Professional entomology and the 44 noisy years since *Silent Spring*: Part 1. *Am. Entomol.* **52**: 224-233.
- \*Anelli, C.M. 2006. Darwinian theory in historical context and its defense by B.D. Walsh: What is past is prologue. *Am. Entomol.* **52**:11-18.
- Pszczolkowski, M., Ramaswamy, S.B., Anelli, C., and Brown, J.J. 2005. Effects of L- and D-aminophosphono acids on feeding in neonate codling moth *Cydia pomonella*. *Pestycydy* **4**:43-48.
- \*Sheppard, C.A. 2004. Benjamin Dann Walsh (1808-1869): Pioneer entomologist and proponent of Darwinian theory. *Annual Review Entomol.* **44**:1-25.
- \*Sheppard, C.A. and R. A. Oliver. 2004. Yucca moths and yucca plants: Discovery of "the most wonderful case of fertilisation." *Am. Entomol.* **50**:32-46.
- \*Sheppard, C.A. 2004. Stretching minds, opening doors... losing identity? *Am. Entomol.* **50**:70-71.
- \*Sheppard, C.A. and D. A. Prischmann. 2003. Using a contextual approach in teaching evolutionary theory and its attendant controversy to undergraduates. *Bioscene: J. College Science Teaching* (May issue). [http://papa.indstate.edu/amcbt/volume\\_29/index.html](http://papa.indstate.edu/amcbt/volume_29/index.html)
- Prischmann, D.A. and \*C.A. Sheppard. 2002. A world view of insects as aphrodisiacs, with special reference to Spanish fly. *Am. Entomol.* **48**:208-220.
- \*Sheppard, C.A. and R. Weinzierl. 2002. Entomological lucubrations: The 19<sup>th</sup> century spirited conflict surrounding the natural history of the armyworm, *Pseudaletia unipuncta* (Haworth). *Am. Entomol.* **48**:108-117.
- Sharp, A.H., Nucifora, F.C.Jr., Blondel, O., Sheppard, C.A., Zhang C, Russell, J.T., Snyder, S.H., Ryugo, D.K. and C.A. Ross. 1999. Differential cellular expression of isoforms of inositol 1,4,5-trisphosphate receptors in neurons and glia in brain. *J. Comparative Neurology* **406**: 207-220.
- Simpson, P.B., Mehotra, S., Langley, D., Sheppard, C.A. and J.T. Russell. 1998. Specialized distributions of mitochondria and endoplasmic reticulum proteins define Ca<sup>2+</sup> wave amplification sites in cultured astrocytes. *J. Neurosci. Res.* **52**: 672-683.
- \*Sheppard, C.A., Simpson, P.B., Sharp, A.H., Nucifora, F.C., Ross, C.A., Lange, G.D., and J.T. Russell. 1997. Comparison of type 2 inositol 1,4,5-trisphosphate receptor distribution and subcellular Ca<sup>2+</sup> release sites that support Ca<sup>2+</sup> waves in cultured astrocytes. *J.Neurochem.* **68**:2317-2327.
- \*Sheppard, C.A. and E.H. Smith. 1997. Entomological heritage. *Am. Entomol.* **43**:142-146.
- \*Sheppard, C.A. and D.E. Lynn. 1996. Immunoreactivities for calcium signaling components and neural-like properties of a Colorado potato beetle cell line. *Arch. Insect Biochem. Physiol.* **33**:197-209.
- Yagodin, S.V., Holtzclaw, L., Sheppard, C.A., and J.T. Russell. 1994. Non-linear propagation of agonist-induced cytoplasmic calcium waves in single astrocytes. *J. Neurobiol.* **25**:265-280.
- Adams, J.R., \*Sheppard, C.A., and M. Shapiro. 1994. Light and electron microscopic investigations on the histopathology of the midgut of gypsy moth larvae infected with LdMNPV plus a fluorescent brightener. *J. Invertebr. Pathol.* **64**:156-159.

## PROFESSIONAL ARTICLES, REFEREED (continued)

- \***Sheppard**, C.A., Shapiro M., and J.L. Vaughn. 1994. Reduction of midgut luminal pH in gypsy moth larvae (*Lymantria dispar* L.) following ingestion of nuclear or cytoplasmic polyhedrosis virus/ fluorescent brightener on natural or artificial diet. *Biol. Control* **4**:412-420.
- \***Sheppard**, C.A. and M. Shapiro. 1994. Physiological and nutritional effects of a fluorescent brightener on nuclear polyhedrosis virus-infected *Lymantria dispar* (L.) larvae (Lepidoptera: Lymantriidae). *Biol. Control* **4**:404-411.
- \***Sheppard**, C.A. and M.J. Loeb. 1992. Enzymatic characterization of subcellular samples from gypsy moth larval midgut following differential centrifugation and fractionation on Percoll-sucrose gradient. *Arch. Insect Biochem. Physiol.* **21**:195-206.
- \***Sheppard**, C.A. and M.J. Loeb. 1992. ATP-dependent Ca<sup>2+</sup> transport and Ca<sup>2+</sup>-ATPase activities in an enriched plasma membrane fraction from gypsy moth larval midgut tissue. *Arch. Insect Biochem. Physiol.* **21**:179-194.
- \***Sheppard**, C.A. and S. Friedman. 1992. Effect of dietary nitrogen on nutritional indices, development rate and lipid content of gypsy moth larvae. *Ent. exp. appl.* **64**:269-280.
- Smith, E. H. and C.A. \***Sheppard**. 1990. A heritage of distinguished journalism. *Am. Entomol.* **36**:7-17.
- \***Sheppard**, C.A. and S. Friedman. 1990. Influence of host plant, foliar phenology and larval dietary history on *Lymantria dispar* larval nutritional indices. *Ent. exp. appl.* **55**:247-255.
- \***Sheppard**, C.A. 1989. A brief history of *The Practical Entomologist* and its contributions to economic entomology. *Ent. News* **100**: 212-223.
- \***Sheppard**, C.A. and S. Friedman. 1989. Endogenous and induced monooxygenase activity in gypsy moth larvae feeding on natural and artificial diets. *Arch. Insect Biochem. Physiol.* **10**:47-56.
- \***Anelli**, C.M. and S. Friedman. 1986. Presence and regulation of trehalose in the body of adult *Phormia regina*. *Arch. Insect Biochem. Physiol.* **3**:381-395.
- \***Anelli**, C.M. and S. Friedman. 1986. The regulation of blood sugar in the aging blow fly, *Phormia regina*. *Exp. Geront.* **21**:93-98.

## BOOK CHAPTER

- Loeb, M.J., DeMilo, A.B., and C.A. **Sheppard**. 1990. Characterization of testis ecdysiotropin (TE) from brains of Lepidoptera. *In: Insect Neurochemistry and Neurophysiology* 1989. AB Borkovec & EP Masler, eds. Humana Press, Clifton, NJ.

## PUBLISHED ABSTRACTS

- Lynn, D.E. and \***Sheppard**, C.A. 1996. Evidence for differentiated functions in two continuous insect cell lines. World Congress on *In Vitro* Biology.
- Simpson, P.B., **Sheppard**, C.A. and Russell, J.T. 1995. Properties of Ca<sup>2+</sup> stores in type 1 and type 2 astrocytes. Society for Neuroscience Annual Meeting.
- Simpson, P.B., **Sheppard**, C.A. and Russell, J.T. 1995. Mechanism of Ca<sup>2+</sup> store mobilization in cultured astrocytes. Gordon Research Conference, Calcium Signaling.
- Yagodin, S., **Sheppard**, C.A., Holtzclaw, L.A., and Russell, J.T. 1993. Non-linear propagation of agonist-induced calcium waves in astroglia. American Physiological Society Conference on Signal Transduction and Gene Regulation.

## PUBLISHED BOOK REVIEWS

- Anelli, C. 2009. "Darwin's Universe: Evolution from A to Z." *Reports of National Center for Science Education* **49**:42-42 <http://ncse.com/ncse/29/6/review-darwin-s-universe>
- Sheppard, C.A. 2001. "Slugs, Bugs, and Salamanders." *American Biology Teacher*. **63**:696-97.
- Sheppard, C.A. 2001. "Buzzwords: An entomologist muses on sex, bugs, and rock and roll." *Am. Entomol.* **47**:104-105.
- Sheppard, C.A. 1999. "Science on the Texas Frontier: Observations of Dr. Gordon Lincecum." *Am. Entomol.* **45**:189.
- Sheppard, C.A. 1998. "Brethren of the Net: American Entomology 1840-1880" *Am. Entomol.* **44**: 49-50.
- Sheppard, C.A. 1992. "Women in the Field: America's Pioneering Women Naturalists." *Ent. News* **103**:37-38.

## SABBATICAL LEAVE

- 2003-2004 Effect of suppression of immunity by polydnavirus on baculovirus infectivity in insects and insect cell lines; with Bruce Webb, U Kentucky, Lexington

## GRANTS

- 2012 "Three days of Pullman events with HHMI Professor Dr. Diane O'Dowd," NSF-ADVANCE PRO-Net at WSU (PIs: C. **Anelli**, S. Hines, L. Sprunger, P. Mixer, K. Green) (\$1,050) (2/1/2012-2/3/2012)
- 2011 "Revision of ENTOM 150 content and pedagogy to meet UCORE requirements," Samuel and Patricia Smith Teaching and Learning Grant, WSU University College (PI: C. **Anelli**) (\$4,000) (6/16/2011-12/31/2011)
- 2009 "Using contemporary evolution to teach about the nature of science to underserved audiences," National Science Foundation, Informal Science Education Program (PIs: M. Webster, C. Anelli, R.G. Olmstead, A. Ryken, P.H. Wimberger) (\$75,000) (10/01/09-10/01/11) *Note: Hufford became lead PI with Webster's move to Cornell University in 9/09.*
- 2008 "Interdisciplinary course design and assessment of student learning in UH 290, 'Science as a Way of Knowing,'" Samuel H. and Patricia W. Smith Teaching and Learning Grant, WSU Office of Undergraduate Education (PI: C. **Anelli**) (\$5,000) (8/15/08-8/15/09)
- "Analysis of lipid stores in honey bees," USDA-ARS Cooperative Agreement with G. DeGrandi-Hoffman (PI: C. Anelli), (\$2,500) (7/1/08-6/31/09)
- 2001 "A new course: 'Insects, Science, and World Cultures' in a General Education Program," USDA-CSREES Higher Education Challenge Grants Program (PIs: C. **Sheppard**, L. Hatch) (\$48,634) (8/16/01-5/15/03)
- 2000 "Search for Neurofilament-like coding sequence in the Colorado potato beetle," CAHE Undergraduate Research Program (PI: C.A. **Sheppard**) (\$600) (10/00-4/01)
- "Development of three linked courses on American diversity in the University Honors College," William & Flora Hewlett Foundation Education Program, WSU (PIs: C.A. **Sheppard**, L. Walker, S. Shay) (\$12,000) (8/00-5/01)

## GRANTS (continued)

- 1999 "Rearing biological control agents at the Northwest Biocontrol Insectary and Quarantine Facility," Environmental Protection Agency (PIs: G.L. Piper, C.A. **Sheppard**, J.J. Brown) (\$25,718) (5/01/99--5/01/00)
- "Agricultural Pests and Pesticides: A backgrounder for individual and community decision-making," Illinois Council for Food and Agricultural Research (PIs: R.A. Weinzierl, C. D'Arcy, C. **Sheppard**) (\$25,000) (7/99-6/02)
- "Development of a new Tier I [Q] science course," William and Flora Hewlett Foundation Education Program, WSU (PI: C. **Sheppard**) (\$3,000) (summer)
- "Development of a laboratory exercise for a new proposed course," CAHE Undergraduate Research Program (PI: C.A. **Sheppard**) (\$479) (1/99-4/99)
- 1997 "Development of ENTOM 401 as a Tier III course," William and Flora Hewlett Foundation Education Program, WSU (PI: C. **Sheppard**) (\$3,000) (summer)
- 1992 "Early life of B.D. Walsh, Entomologist and Darwinian theory proponent," American Philosophical Society, General Research Grants Program (PI: C. **Sheppard**) (\$1600) (10/92)
- 1987 "Physiological basis of gypsy moth host plant range expansion," University of Illinois Research Board (PIs: S. Friedman, C. **Anelli**) (\$3,740) (1/06/87-5/20/87)
- 1986 Conference Travel Grant, University of Illinois Graduate College (C. **Anelli**) (\$125)
- 1984 Project Support for Field Museum research on C. Darwin-B.D. Walsh correspondence, University of Illinois Graduate College (PI: C. **Anelli**) (\$30)
- 1981 "Aging hypotheses and investigative models," University of Illinois BioMedical Research Board (PIs: S. Friedman, C. **Anelli**) (\$6,600) (8/81-7/82)

## INVITED PANEL & WORKSHOP PRESENTATIONS

- 2010 "How to earn an "A" for Assessment: Aligning learning goals and outcomes with a new honors curriculum," 44<sup>th</sup> Annual National Collegiate Honors Council Conference, Kansas City, MO, 20-24 Oct
- 2009 "Change in the Environment, and Evolution," 12<sup>th</sup> Annual Inland Northwest Philosophy Conference, panelist, Pullman, WA, 1 May
- "Evolution, Science & Society," moderator for discussion panel, Darwin Week at WSU, 17 Feb
- 2008 "Critical thinking approaches to designing interdisciplinary assignments: A scientist reaches out," The Institute for Learning and Teaching, Summer Conference, Colorado State University, 20 & 21 May; workshop leader, video viewable at: [http://tilt.colostate.edu/summer/2008/conference\\_resources.cfm](http://tilt.colostate.edu/summer/2008/conference_resources.cfm)
- "Faith and Evolution," Defining Science & Religion: Ohio State University, panelist, 22 Oct, Columbus, OH; David Brancaccio, moderator & host of *NOW* on PBS; televised video: <http://www.wosu.org/collaborative/?date=11/07/2008&id=0>
- 2007 "Connecting Reading & Writing & Students & Teachers: How to engage students with reading," WSU Writing Across Curriculum Workshop, 9 May
- 2002 "Critical Thinking - From Theory to Practical Application for the Classroom," CAHE Workshop on Critical Thinking, WSU
- "Critical Thinking," Honors College Faculty Workshop, WSU
- 2001 "Writing across the Curriculum," CTL Workshop, WSU

## INVITED TALKS AND SYMPOSIA

- 2011 “Physics for bugs,” for WSU Common Reading lecture program, 29 Nov, Pullman  
“Group take-home exams: promises, pitfalls, and possible solutions,” symposium entitled, “Lessons learned with new teaching and research experiences for undergrads: What worked and what didn’t,” ESA Pacific Branch meeting, Waikoloa, HI
- 2010 Keynote address, WSU Chapter of AKD International Sociology Honor Society Induction Ceremony, 29 Apr  
“Using insects to demonstrate the relevance of science and scientific literacy,” symposium entitled, “Teaching Entomology to Non-majors,” ESA National Meeting, 12-15 Dec., San Diego, CA  
“Rachel Carson: Controversy and Contributions,” Fruit and Vegetable Insect Research Unit, USDA-ARS, Wapato, WA, 24 Mar  
“Insect *Bauplan* for Architecture Design Students,” for Prof. A. Rahmani’s Architectural Design Studio Course, WSU, 1 Feb
- 2009 “Approaches and lessons learned from teaching freshmen science majors in honors,” member symposium entitled, “Celebrating Darwin's 200th Birthday: Using Insects to Teach Evolutionary Concepts,” ESA National Meeting, 13-16 Dec, Indianapolis, IN  
“Lap dances and sexy orchids: Evolution’s gifts to science professors,” ESA Integrative Physiological and Molecular Insect Systems Section Meeting, (invitation in recognition of ESA Teaching Award) 16 Dec, Indianapolis, IN  
“Collaboration with WSU Libraries & CTLT: Information literacy and critical thinking in UH 290,” WSU Libraries bi-yearly speaker series, 22 Oct  
“Evolution matters! Historical and current contexts in Darwin’s dual anniversary year,” Eastern Washington University, Department of Biology, 13 Feb  
“Benjamin Dann Walsh: Correspondence with Darwin and contributions to his evolutionary theory,” (juried submission), conference titled, “Darwin’s Reach: A Celebration of Darwin’s Legacy Across Academic Disciplines,” Hofstra University, Long Island, NY, 12-14 Mar  
“Reflections and contemporary challenges in Darwin’s dual anniversary year,” WSU Entomology Department Colloquium, 6 Feb  
“Paradigm shift: Darwin over time,” Spokane Free Thinker’s Society, 8 Feb
- 2008 “Darwin’s 19<sup>th</sup> Century Supporters,” Program symposium entitled, “The Darwinian Metamorphosis of Entomology,” ESA National Annual Meeting, Nov 16-19, Reno, NV  
“A look at student thinking, thanks to online group work,” for “How I did it” series, Center for Teaching, Learning, & Technology, WSU, 3 Oct.
- 2007 “Silken Connections: Insects, Science, and Human Cultures,” Pedagogy symposium entitled “Making Connections between Educational Theory and Teaching Practice,” ESA National Annual Meeting, Dec 10-14, San Diego, CA  
“Interdisciplinary approaches with historical scientific racism,” Pedagogy symposium entitled "Visible Knowledge Project," Rocky Mountain Modern Language Association Annual Meeting, Oct 4-7, Calgary, Alberta, CAN
- 2006 “Darwinian theory vs. Intelligent Design: What is past is prologue,” Gary Simmons Memorial Lecture, Michigan State Univ., Department of Entomology, 24 April

### **INVITED TALKS AND SYMPOSIA (continued)**

- 2006 Keynote address, "Oh, the places you'll go!" National Society of Collegiate Scholars, WSU, 7 Sept  
"Stepping out of our silos: Adventures in interdisciplinary teaching," with Raymond Sun, WSU History Department Colloquium, 8 November  
"Origin of the 6 Learning Goals of the Baccalaureate," WSU-Vancouver General Instructors' Retreat, Portland, OR, May 15
- 2005 "Synergistic interactions from the Visible Knowledge Project," co-presented with R. Sun (History Department, WSU), Rocky Mountain Modern Language Association Annual Meeting, Coeur D'Alene, ID  
"Insects in Hopi and Navajo Myth and Ritual," teaching symposium entitled, "The Good, the Bad and the Lovely – Insects in Culture and Art," Entomological Society of America (ESA) National Meeting, Ft. Lauderdale, FL  
"Applied entomology and the trenchant pen of B.D. Walsh (1808- 1869)," BCE symposium entitled, "Celebrating a look back: A history of applied entomology," ESA National Meeting, Ft. Lauderdale, FL
- 2004 "B.D. Walsh: Contributions to Entomology and Evolutionary Thought," Department of Entomology, Ohio State University, Columbus, OH  
"Using interdisciplinary and inquiry-based approaches to teach "Insects, Science, and World Cultures," symposium entitled, "Bugs in Education," ESA National Meeting, Salt Lake City, UT  
"Mock Panel Review." Stage presentation participant in USDA-NRI Panel, symposium entitled, "The Grant-Writing Workshop: Inside the Review Panel, ESA National Meeting, Salt Lake City, UT.
- 2003 "B.D. Walsh: Correspondence with Darwin and contributions to his evolutionary theory," Dept. of Entomology, Soils, and Plant Sciences, Clemson University  
"B.D. Walsh (1808-1869): Contributions to Darwinian evolutionary theory," EcoLunch, Department of Environmental and Evolutionary Biology, University of Kentucky, Lexington  
"B.D. Walsh: Arguments and prescience in 19th century entomology and evolutionary biology," WSU, Entomology Department  
"Science matters: Evolution and society," WSU Honors College Invited Address  
"Rubrics for Critical Thinking," Critical Thinking Project Workshop, WSU
- 2002 "Creating a Cross-Course Learning Community Around Diversity Issues," 36<sup>th</sup> Annual National Collegiate Honors Council Conference, Chicago, IL (with L. Walker)  
"Results of two studies: Fostering critical thinking and authentic learning," Washington Center Annual Meeting, Takoma, WA (with S. Smith)  
"B.D. Walsh: Correspondent of Darwin and outspoken proponent of his theory," University of Kentucky, Entomology Department
- 2001 "Things to consider when developing a course," guest presentation to T&L students, College of Education, WSU  
"How I Learned to Stop Worrying and Love the WSU Critical Thinking Rubric," CTLT Brown Bag Presentation, WSU
- 2000 "Englishman on the prairie: B. D. Walsh, first state entomologist of Illinois," ESA North Central Branch, Heritage symposium, Minneapolis, MN

### **INVITED TALKS AND SYMPOSIA (continued)**

- 2000 "The significance and current status of teaching evolution in the U.S.," Eco-Evo brown bag seminar, Department of Biological Sciences, WSU
- "Opening remarks." Joint Annual Meeting of Societe d'entomologie du Quebec, Entomological Society of Canada, and ESA, Program Symposium entitled, "The Science of Entomology: A view of the past and lessons for the future," Montreal, CAN
- "Writing in my major," guest presentation, Dr. Gorsevksi's ENGL 402 class, WSU
- 1999 "Corroboration controversy, and connections: 19th century entomologists and Darwinian theory," ESA North Central Branch, Heritage symposium, Des Moines, IA
- "Corroboration controversy, and connections: 19th century entomologists and Darwinian theory," WSU Department of Entomology Spring Colloquium, Pullman, WA
- "Introduction," ESA Annual Meeting, Section B symposium entitled, "Life on the Edge: The physiology, ecology, and evolution of insect thermoregulation and temperature tolerance," Atlanta, GA
- "Introduction," ESA Annual Meeting, Heritage symposium entitled, "Ever present: Insects and Entomologists in Science and Society," ESA Annual Meeting, Atlanta, GA
- "Contributions from insect research to the fundamentals of biological knowledge," ESA Annual Meeting, Heritage symposium, Atlanta, GA
- "What is past is prologue: Lessons from Science and Society" lecture [on teaching evolution], Marian E. Smith Faculty Achievement Award Lecture, WSU, Pullman
- 1998 "B.D. Walsh (1808-1869): Illinois Iconoclast and Darwinian Defender," University of Illinois, Department of Entomology, Urbana, IL
- "Research and career opportunities," WSU Zoology Club, Pullman, WA
- "Insects: Perfect teaching tools for the classroom and beyond," guest presentation, English 201 class, WSU, Pullman
- 1996 "The fascinating life and scientific contributions of B.D. Walsh (1808-1869)," Tri-Beta Biology Club, University of Scranton, Scranton, PA
- "Calcium signaling in cultured cerebral astrocytes," Department of Genetics, Faculty of Medicine, University of São Paulo, Ribeirao Preto, Brazil
- "B.D. Walsh (1808-1869): Correspondent of Charles Darwin and proponent of evolutionary theory," Department of Genetics, Faculty of Medicine, University of São Paulo, Ribeirao Preto, Brazil
- "B.D. Walsh: Correspondent of Charles Darwin and contributor to evolutionary theory," Zoology Department Seminar, WSU, Pullman, WA
- "Blow flies, beetles, and brain cells: Calcium signal transduction *via* the inositol trisphosphate pathway," Department of Biological Sciences, University of Idaho, Moscow, ID
- "Physiological effects of an enhancer of gypsy moth nuclear polyhedrosis virus," University of Scranton, Biology Department Seminar, Scranton, PA

### **INVITED TALKS AND SYMPOSIA (continued)**

- 1995 "Historical Highlights of the North Central Branch," ESA North Central Branch Meeting, program symposium entitled, "Celebrating the Past and Examining Future Opportunities," Lexington, KY
- 1992 "Benjamin D. Walsh: Correspondence with Darwin and contributions to his evolutionary theory," ESA National Meeting, program symposium entitled, "Darwinian Theory and Entomology," Baltimore, MD
- 1991 "Benjamin D. Walsh: Darwin's Little Bulldog," Entomological Society of Washington, Smithsonian Institution, Washington, DC  
"Introduction." Symposium entitled, "Insect-pathogen interactions," ESA Eastern Branch Meeting, Richmond, VA
- 1990 "ATP-dependent Ca<sup>2+</sup> transport and a Ca<sup>2+</sup>-ATPase in gypsy moth midgut plasma membranes," Pennsylvania State University, Entomology Seminar, State College, PA  
"Ca<sup>2+</sup> transport and a Ca<sup>2+</sup>-ATPase in gypsy moth midgut plasma membranes," ESA National Meeting, conference entitled, "Calcium as Regulator of Insect Cellular Processes," New Orleans, LA
- 1989 "Mono-oxygenase activity and nutritional ecology of gypsy moth larvae," University of Maryland, Entomology Colloquium, College Park, MD
- 1988 "Mixed-function oxidase activity and host plant utilization in gypsy moth larvae," IRL Seminar Series, Beltsville, MD  
"Mono-oxygenase activity and nutritional ecology of gypsy moth (*Lymantria dispar*) larvae," Ohio State University, Environmental Biology Seminar, Columbus, OH
- 1987 "Benjamin Dann Walsh: Illinois State Entomologist and early proponent of Darwinism," History of Science Society Annual Meeting, symposium entitled, "Darwinism and Entomology," Raleigh, NC  
"Host plant utilization by gypsy moth larvae as determined with natural and artificial diets," University of Illinois, Department of Entomology Seminar, Urbana, IL

### **CONTRIBUTED ORAL PRESENTATIONS AT SCIENTIFIC MEETINGS**

- 2009 "Sympatric speciation (perhaps) and more: What Benjamin Walsh (1808-1869) told Charles Darwin," National Meeting of the Society for the Study of Evolution (Evolution 2009), Moscow, ID
- 1999 "Benjamin D. Walsh: Darwin's other Bulldog," Columbia History of Science Annual Meeting, Friday Harbor, WA  
"B.D. Walsh: Correspondence with Darwin and contributions to his evolutionary theory." American Association for the Advancement of Science Pacific Branch Meeting, San Francisco, CA
- 1991 "Effect of gypsy moth NPV adjuvant on larval feeding and midgut." ESA National Meeting, Reno, NV
- 1989 "Food utilization and lipid storage of gypsy moths fed foliage or artificial diets containing foliage." ESA National Meeting, Boston, MA
- 1987 "Properties of plasma membranes isolated from insect tissue." ESA National Meeting, San Antonio, TX  
"Effect of dietary history on gypsy moth larval food utilization." ESA Eastern Branch Meeting, Philadelphia, PA

## CONTRIBUTED ORAL PRESENTATIONS AT SCIENTIFIC MEETINGS (continued)

- 1986 "Benjamin Dann Walsh: Correspondent of Charles Darwin and proponent of his theories," ESA East Central Branch, symposium entitled, "Portraits in Excellence: Our Entomological Heritage," Philadelphia, PA  
"Foliar phenology and constitution as determinants of gypsy moth larval food utilization and body composition." ESA National Meeting, Reno, NV
- 1985 "Effect of diet on gypsy moth midgut microsomal mixed-function oxidase activity." ESA National Meeting, Hollywood, FL

## POSTER PRESENTATIONS

- 2011 "Group take-home exams: Promises, pitfalls, and possible solutions," (C.M. Anelli, C.M. Johnson, B.J. Galbraith, K.A. Green), WSU Academic Showcase, 25 Mar
- 2009 "Assessment of Information Literacy and Critical Thinking Skills in UH 290, 'Science as a Way of Knowing,'" (B. Galbraith, C. Johnson, K. Green, C. Anelli), WSU Academic Showcase, 27 Mar  
"An examination of sub-lethal effects of pesticide residues in honey bee comb: a potential contributing factor to Colony Collapse Disorder? (J. Wu, C.M. Anelli, W.S. Sheppard), WSU Academic Showcase, 27 Mar
- 2008 "From *Mismeasure of Man* to *Invisible Man*: An examination of scientific racism in the U.S.," (C. Anelli, R. Law), WSU Academic Showcase, 28 Mar  
"WSU Cross Campus Collaboration: CTLT, Libraries, and the Honors College Revise the Honors Thesis Proposal Seminar," (K. Green, C. Johnson, C. Anelli), WSU Academic Showcase, 28 Mar
- 2006 "Silk batik using cochineal dye," (C. Anelli, D. Prischmann), ESA National Meeting, Indianapolis, IN
- 2005 "*Junonia coenia* densovirus derived vectors offer new avenues for exploration and examination of polydnavirus (PDV) gene function in vivo" (K.D. Reeves, J.A. Kroemer, K.H. Bale, C. Anelli, P. D. Shirk, B.A. Webb), ESA National Meeting, Ft. Lauderdale, FL  
"Effects of L- and D-aminophosphono acids on feeding in neonate codling moth, *Cydia pomonella*" (M. Pszolkowski, S.B. Ramaswamy, C. Anelli, J.J. Brown), Proceeding of Symposium honoring Stefan Kopec, Warsaw, Poland
- 2002 "A noisy response to a *Silent Spring*" (C.H. Krupke, R.P. Prasad, C.A. Sheppard), ESA National Meeting, Ft. Lauderdale, FL  
"Defending Darwinism: Benjamin Walsh vs. Louis Agassiz and the 'New England School of Naturalists'" (R.A. Cohen and C.A. Sheppard), ESA National Meeting, Ft. Lauderdale, FL  
"Mary Treat: New Jersey Naturalist and Correspondent of Charles Darwin and Asa Gray" (D.G. Johnson and C.A. Sheppard), ESA National Meeting, Ft. Lauderdale, FL  
"Love bugs: A historical perspective on nature's Viagra®" (D.A. Prischmann and C.A. Sheppard), ESA National Meeting, Ft. Lauderdale, FL
- 2001 "Politically Incorrect: The 19<sup>th</sup> century debate over the life history and control of the armyworm" (R.A. Weinzierl and C.A. Sheppard), ESA National Meeting, San Diego, CA

## POSTER PRESENTATIONS (continued)

- 2000 "Natural Theology and Creation Science: Use of a historical perspective in teaching evolutionary theory to undergraduates" (C.A. Sheppard), Society for Study of Evolution national meeting, Bloomington, IN

## PROFESSIONAL SERVICE

- 2011-present ESA Governing Board member (elected; 3-year term)
- 2007-2011 Entomological Foundation Board Counselor (appointed)
- 1988-present Manuscript reviewer for *American Biology Teacher*; *Bioscene*, *Journal of College Teaching*; *Amer. Entomol.*; *Can. Entomol.*; *Ent. exp. appl.*; *J. Insect Science*; *Apidologie*; *In vitro*; *J. Insect Physiol.*; *Envir. Entomol.*; *J. Chem. Ecol.*
- 1997-present Co-editor, Heritage feature, *American Entomologist*
- 2011 Nominator for Walter Leal, UC Riverside, for ESA Nan-You Su Award  
Nominator for Gene Kritsky, Mt. St. Joseph College, for ESA Founders' Award  
Nominator for Catherine Loudon, UC Irvine, for PBESA Teaching Award  
External reviewer for faculty promotion/review, U Oklahoma Department of Zoology, UC Irvine Department of Ecology and Evolutionary Biology  
External reviewer for NSF-ICE, re: PI evaluation of science education proposals  
Symposium Co-organizer, PBESA
- 2010-present Linnean Games Judge, ESA National meeting
- 2010 Moderator, Student Oral Competition, PBESA, Boise, ID  
Reviewer, University of California Press book manuscript, *How not to be eaten* (Anelli quote on book back cover; book published 2012)
- 2009 "Old-timers" Linnean Games team member, ESA National meeting
- 2008 Reviewer, University of California Press book manuscript, *Fireflies, Honey, and Silk* (Anelli quote on book back cover; book published 2009)  
Grant proposal reviewer, U.S. Civilian Research & Development Foundation
- 2007 Proposal Reviewer, John Templeton Foundation  
Interviewee for Dr. Mary Zamon, Assessment Leader, George Mason University; and Dr. Peggy O'Neill, Loyola College, MD, research on university writing
- 2006 National Science Foundation Panel Member (Integrative Organismal Biology), Washington, D.C.
- 2006,'07 Chair, Student Competition, PB-ESA annual meeting
- 2006 Moderator, Student's Competition for the President's Prize, oral presentations, Section B, ESA (national level)
- 2005 Poster Co-Chair, ESA (national level)
- 2004 Program Co-Chair, ESA (national level)  
Chair, Section B, ESA (national level)  
Ad-hoc reviewer, BARD Grants
- 2003 Chair-Elect, Section B, ESA (national level)  
Co-Chair, Student Poster Competitions, ESA (national level)  
Ad-hoc reviewer, USDA Suborganismal Grants
- 2001,'02 USDA Suborganismal Grants panel member, Washington, D.C.

## **PROFESSIONAL SERVICE (continued)**

- 2002 Organizer & Moderator, ESA National Meeting Program Symposium  
Book Reviewer for *Physiological Systems in Insects*, by M. Klowden  
Assistance to Darwin Correspondence Project (RE: Walsh- Darwin  
correspondence)  
Secretary, Section B, ESA (national level)  
Program Co-Chair-Elect, ESA (national level)
- 2000, '01 ESA Standing Committee on Membership (national level)
- 2000 Moderator for Section B, ESA National Meeting, Montreal, CAN  
Co-organizer/co-moderator, Heritage Program Symposium, ESA National  
Meeting, Montreal, CAN
- 1999-'04 Chair, Heritage Committee, ESA (national level; appointed by ESA President  
George Kennedy)
- 1999, '01 ESA Section B Representative, Ethics Committee (national level, elected)
- 1999 Chair, Heritage Committee, ESA (national level)  
Organizer/Moderator, Section B Symposium, ESA National Meeting, Atlanta,  
GA  
Organizer, Heritage Program Symposium, ESA National Meeting, Atlanta, GA
- 1997 Program Symposium Committee, Section B, ESA (national level)  
Judge, Student Poster Competition, ESA National Meeting, Nashville, TN
- 1996 Moderator, Section B, ESA National Meeting, Louisville, KY  
Organizer, Linnean Games, ESA Eastern Branch, Williamsburg, VA
- 1995, '96 Program Symposium Committee, Section B, ESA (national level)
- 1994, '95 Organizer & Moderator, Linnean Games, ESA Eastern Branch
- 1994 Judge, Student Paper Competition, ESA National Meeting, Dallas, TX
- 1992 Organizer, Program Symposium, ESA National Meeting, Baltimore, MD  
Mentor, USDA/ARS Equal Employment Opportunity Program, Beltsville, MD
- 1991, '92 Program Committee Chair, Section B, ESA Eastern Branch, Richmond, VA;  
Organizer, Informal Conference, Section B, ESA National Meeting, New  
Orleans, LA; Organizer & Moderator, Symposium for Section Ce, ESA Eastern  
Branch Meeting, Richmond, VA; Organizer, Program Symposium, ESA  
National Meeting, Baltimore, MD
- 1990, '93 Judge, Student Paper Competitions, ESA Eastern Branch Meetings, Williamsburg,  
VA, and Baltimore, MD
- 1987 Author, biographical note of B.D. Walsh (1808-1869), Founder's Memorial  
Lecture, published in Conference Program Guide, ESA National Meeting,  
Boston, MA

## **UNIVERSITY SERVICE**

- 2009-present Goldwater Scholarship Committee Member
- 2007-present WSU Academic Showcase Committee Member
- 2007-present Presenter, Teaching Academy Workshop for Grad Students
- 2005-present Chair, All University Writing Committee
- 2004-present Teaching Academy Advisory Board Member
- 2009-2011 Academic Effectiveness Liaison Council Member
- 2009-2011 General Education/UCORE Committee Member

## **UNIVERSITY SERVICE (continued)**

- 2011 Reviewer, promotion to full professor for faculty member in CLA  
Interviewee for Dr. Erin Mae Clark (WSU) on critical thinking in my courses
- 2010 Price and Positioning Committee Member
- 2008-'09 Co-organizer (w/ M. Webster), "Darwin Week at WSU," to obtain sponsorship and plan events spanning four days
- 2008-'09 Chair, Committee for Distinguished Achievement Award in Teaching (new WSU Teaching Academy Award for non-tenure track instructors)
- 2007-'09 Association for Faculty Women, Sam H. Smith Leadership Award Committee Member
- 2006-'09 New Graduate and Professional Student Orientation, presentations on teaching and pedagogy ('06, '07, '09)
- 2005-'09 Guest presentations, UNIV 590, "Using Writing to Foster Learning," and "Preparation for College Teaching" ('05, '06, '07, '08, '09)
- 2004-'09 "Pedagogical Issues in Higher Education," and "Changing Faculty Roles & Expectations," WSU Summer Doctoral Fellows Program ('04, '07, '08, '09)
- 2002-'09 New Faculty Orientation, oral presentations as "teaching star" ('02, '05, '08, '09)
- 2008 Co-nominator of D. Zommick, CAHNRS student highlighted at commencement  
Reviewer, WSU grad student posters, EdAd 272: "History of Higher Education
- 2007 Council on Student Retention Member
- 2006 Search Committee Member, WSU Director of Recruitment
- 2006-'07 Secretary, President's Teaching Academy, WSU (8/'06 - 6/'07)
- 2006-'07 Chair, President's Teaching Academy, Provost's Speaker Series (arranged two days' events for Dr. Thomas A. Angelo visit)
- 2005-'07 University Convocation Committee Member
- 2005,'06 Chair, Annual OUE Teaching & Learning (T&L) Grants Panel
- 2005 Mentor/Facilitator, two-day Program Assessment Institute, Pacific Crest (co-sponsored by OUE and President's Teaching Academy, 28-29 October)
- 2004-'06 Regents Scholars Program Committee Member
- 2004-'06 Chair, President's Teaching Academy, WSU (8/'04 - 6/'06)
- 2004 Reviewer, OUE proposals on T&L assessment at Department/Program level  
Regents Scholars Recruitment Receptions, Everett & Seattle, 12 & 13 Jul  
Numerous presentations to promote and establish President's Teaching Academy, including: President Rawlins Cabinet Retreat in Spokane, WSU Leadership Retreat, Council of Deans, Associate Deans Meeting, Faculty Senate, Academic Affairs Committee, WSU Board of Regents
- 2003, '04 All University Writing Committee Member
- 2002 WSU Foundation Luncheon (invited faculty attendee)
- 2001 WSU Recruitment Video (featured professor)
- 2000,'01 Secretary, Association for Faculty Women, WSU

## **COLLEGE SERVICE**

- 2007-'11 Honors College Thesis Director
- 2007-'11 Honors College Academic Advisor
- 2007-'11 Honors College Thesis Proposal Reviewer and Committee Chair
- 2010-'11 Honors College Representative (host) for Thesis Presentations

### **COLLEGE SERVICE (continued)**

- 2002-'11 Honors College Commencement Announcer for student biographies  
1999-present Honors College External Thesis Reviewer  
2011 Presentation on Honors Thesis to WSU College of Nursing, 11 Mar  
2011 Honors College Summer Research Scholarship Committee  
2011 Honors College Recruitment Events ("Destination" and "Junior Preview")  
2011 Alive! Summer Sessions for Advising & Registration, for Honors College  
2009-'10 Honors College Teaching Assessment Workshop (each semester)  
2010 Video interview for 50<sup>th</sup> anniversary, see "Learning," Honors College, WSU  
homepage: <http://www.wsu.edu/>  
2010 Honors College Assessment for Accreditation  
2009 Research presentation to Honors College Advisory Council, 27 Mar  
2007-'08 Chair, Science Track Committee for New Curriculum, Honors College  
2007 Regents Scholars Recruitment Receptions; 7, 8, 21 Jul  
Honors College Recruitment Brochure (featured professor)  
2007 Moderator, panel on Common Reader "Flu," Honors New Student Orientation  
2006 Honors College New Student Orientation, performer in skit  
2005 Invited participant, College of Education Faculty Retreat, 16 May  
Honors College Commencement Announcer for student biographies  
2004-'06 CAHE Academic Program Review Committee (representing CAHE; 2 year term)  
2004 Entomology Department, Fall Colloquium Organizer  
Honors College DVD for prospective students, Sheppard teaching (video clip)  
Honors College New Student Orientation, mock class presentation  
2003 CAHE Honors College Implementation Committee Member  
CAHE Junior Showcase Recruitment, lab presentation, "The 'fire' in fireflies"  
Featured Honors professor, WSU's Viewbook for prospective undergraduates  
2002, '03 Honors College Committee to Review Admissions Criteria  
2002 Dad's Weekend: Invited Faculty Participant with WSU improv group, "Nuthouse"  
2001-'02 Honors College Freshman Symposium, invited participant  
2001 CAHE/Entomology representative, WSU Preview Recruitment Presentation  
1999-'00 CAHE Agriscience Leadership Experience, lab activity for recruitment  
1999-'00 Honors College Scholarship Committee  
1999 S. Town Stephenson Scholars Selection Committee, Honors College  
Freshman Seminar Committee, Honors College

### **DEPARTMENTAL SERVICE**

- 1996-present Qualifying Exam Committees (written and oral), Entomology Department  
2009-present Graduate Admissions Committee, Entomology Department  
2011 Assessment Specialists Search Committee, Office of Assessment of Teaching and  
Learning  
Entomology Department Curriculum Review Committee  
2010 Organizer, Entomology Department Colloquium, spring  
Chair, Entomology Department Assessment Committee  
2006 WSU-UI Curriculum Committee  
Vector Biologist Search Committee, Entomology Department

### **DEPARTMENTAL SERVICE (continued)**

- 2005 Crop & Soil Sciences Teaching Faculty Retreat, presentation on WSU's Six Learning Goals of the Baccalaureate and accreditation, 2 May  
CAHRNS Learning Outcomes Community of Practice, participant  
Developer, Entomology Learning Outcomes and Assessment Plans  
Organizer, Entomology Department Colloquium for Invited Speakers, fall
- 2002 Chair, Scholarship Committee, Department of Entomology (member 2000, '01)
- 2001 Department of Agricultural Economics, Search Committee for National Resources Economist
- 1999 Pre-Professional Option Curriculum Committee, Department of Entomology  
Strategic Action Plan for Academic Programs Committee, Dept. Entomology  
E. Paul Catts Memorial Lectureship Committee, Department of Entomology,  
Graduate Admissions Committee, Entomology Department
- 1998 Biocontrol Curriculum Committee, Department of Entomology

### **PROFESSIONAL SOCIETIES**

Entomological Society of America (ESA)  
National Center for Science Education (NCSE)  
Society for the Study of Evolution (SSE)

### **SERVICE ON MS and PhD COMMITTEES**

M.S. Student Co-advisor: Judy Wu

Ph. D. Dissertation Committee Member:

Entomology students Debbie Delaney, Brandon Hopkins, Christine Lynch, Megan Taylor

Natural Resources student Tamara Johnstone-Yellin

Biological Sciences student Elena Bernick

Veterinary Medicine students Dara Nunn, Lisa Teodecki

M.S. Thesis Committee Member:

Entomology Department students Nicole Brooks, Kimberly Hagstrom, Luis Matos, Susanna Hopkins, James Strange, Melissa Gardner, Patricia Johnson, Fatimah Al-hamlan, Katie Buckley

Environmental Science and Regional Planning student Angela Deardorff

U Idaho Entomology student Pat Barrett

Zoology Department student Anna Czuk

Teaching & Learning Department student Mark Goddard

### **SUPERVISION OF INDEPENDENT STUDY**

*Graduate student publications deriving from Anelli's independent study*

Prischmann, D., **Steffan**, S.A., and \***Anelli**, C.M. 2009. "Insect Myths: An interdisciplinary approach fostering active learning." *Am. Entomol.* **55**:228-233.

**Krupke**, C.H., **Prasad**, R. P., Anelli, C.M. 2007. Professional entomology and the 44 noisy years since *Silent Spring*: Part 2. Response to *Silent Spring*. *Am. Entomol.* **53**:16-25.

Anelli, C.M., **Krupke**, C.H., R.P. **Prasad**. 2006. Professional entomology and the 44 noisy years since *Silent Spring*: Part 1. *Am. Entomol.* **52**: 224-233.

***Graduate student publications deriving from Anelli's independent study (continued)***

- Barker, J.** 2003. The western pine beetle and forest health: Historical approaches and contemporary consequences. *Am. Entomol.* 49:142-148. (from ENTOM 401)
- Sheppard, C.A. and D.A. **Prischmann.** 2003. Using a contextual approach in teaching evolutionary theory and its attendant controversy to undergraduates. *Bioscene: J. College Science Teaching* (May issue). (from ENTOM 401)
- Prischmann, D.A.** and C.A. Sheppard. 2002. A world view of insects as aphrodisiacs, with special reference to Spanish fly. *Am. Entomol.* 48:208-220. (from ENTOM 401)
- Strange, J.** 2001. 'A severe stinging and much fatigue'-- Frank Benton and his 1881 search for *Apis dorsata*." *Am. Entomol.* 47:112-116. (From ENTOM 401)

***Undergraduate publication deriving from Anelli's independent study course***

- Sheppard, C.A. and R. A. **Oliver.** 2004. Yucca moths and yucca plants: Discovery of "the most wonderful case of fertilisation." *Am. Entomol.* 50:32-46. (from ENTOM 490)

***Graduate Student Awards***

- Judy Wu (co-advised w/ W. Sheppard), entomology MS student, Founders Award for outstanding MS research, Association for Faculty Women (WSU) (\$500) (2010)
- Judy Wu, Best student paper presentation, awarded by American Association of Professional Apiculturists, American Beekeeping Federation Convention, Orlando, FL (2010)
- Judy Wu, President's 1<sup>st</sup> place prize for oral presentation, ESA National Meeting (2009)
- Judy Wu, 1<sup>st</sup> place MS in oral paper competition, Entomological Society of America Pacific Branch (2009)
- Deirdre Prischmann, doctoral student in Entomology, nominated by Anelli, awarded 2nd place for the Harriett B. Rigas Award, Association for Faculty Women. (2005)
- Deirdre Prischmann, Harold and Jeanne Rounds Olsen Writing Programs Fellow, WSU, for writing project conducted in ENTOM 401 course; awarded \$2,500 (2002)

***Graduate student posters deriving from Anelli's independent study***

- Christian **Krupke** and Renée **Prasad**, poster presentation: "A noisy response to a *Silent Spring*." ESA National Meeting, Ft. Lauderdale, FL (2002)
- Diana **Johnson**, poster presentation: "Mary Treat: New Jersey Naturalist and Correspondent of Charles Darwin and Asa Gray." ESA National Meeting, Ft. Lauderdale, FL (2002)
- Rebecca **Cohen**, poster presentation: "Defending Darwinism: Benjamin Walsh vs. Louis Agassiz and the 'New England School of Naturalists.'" ESA National Meeting, Ft. Lauderdale, FL (2002)
- Deirdre **Prischmann**, poster presentation: "Love bugs: A historical perspective on nature's Viagra®." ESA National Meeting, Ft. Lauderdale, FL (2002)
- Judy **Wu** (co-advised with W. Sheppard), "Sub-lethal effects of pesticide residues in honey bee comb: a potential contributing factor to Colony Collapse Disorder?" (with Anelli, C.M. and Sheppard, W.S.), ESA Pacific Branch Meeting, San Diego, CA (2009)
- Judy **Wu** (co-advised with W. Sheppard), "An examination of sub-lethal effects of pesticide residues in honey bee comb: a potential contributing factor to Colony Collapse Disorder?" (with Anelli, C.M., and W.S. Sheppard), WSU Academic Showcase, 27 Mar (2009)

### ***Undergraduate Student Awards***

Jonathan Pruneda (co-advised w/ L. Lacey), Honors College Thesis awarded "Pass with Distinction" by WSU Honors Council (2008)

Shannon Reive, Honors College Thesis awarded "Pass with Distinction" by WSU Honors Council; thesis entitled, "B.D. Walsh (1808-1869): 19<sup>th</sup> Century defender of Darwinian evolutionary theory." (2005)

Harmony Borchardt-Wier and Carina Druffel Stillman, Honors College Thesis awarded "Pass with Distinction" by WSU Honors Council; thesis entitled, "Caffeinated caterpillars in the classroom." (2002)

### ***Undergraduate student posters deriving from Anelli's independent study***

Sandra **Bushman**, CAHE Undergraduate Research Program Awards Banquet, poster titled, "One shot or two? Effect of dietary caffeine on tobacco hornworm growth and development." (Apr. 2001)

Katherine **Johnson**, CAHE Undergraduate Research Program Awards Banquet, poster titled, "Developing a lab exercise for a new proposed course." (Apr. 2000)

### ***Work with individual students***

Honors College Thesis Project Advisor, WSU: Katie Rask, Harmony Borchardt-Wier, Carina Druffel, Alexandra Fitts, Shannon Reive, Jonathan Pruneda (co-advised with L. Lacey), Sean Seagraves (co-advised with R. Sun)

Undergraduate Independent Study/Special Topics, WSU: Rebecca Christopherson, Timothy Waters, Sandra Bushman, Katherine Johnson, Rebecca Cohen, Richard Oliver, Carina Stillman, Stephanie Pitts

Actor ("Mother") in film produced by Honors student Megan Rosenfeld, aired 28 Nov '11  
Honors Senior Thesis Reader Committee Member, University of Scranton, Department of Biology: William Benedict, Jennifer Reap, Michael Tracy

### **POPULAR PRESS, MASS MEDIA**

2012 Interviewee, *Washington State Magazine* (spring issue), article titled "Living the right-sized life," regarding physics of insect size

2011 Article, "It's a bug's life at WSU," *Moscow-Pullman Daily News*, reporting on Anelli's presentation for Common Reading, 30 Nov

2009 Videotaped interviewee, *WSU Today*, regarding teaching & pedagogy, 22 Sept  
KRFP Radio, 1 hour talk show, "Understanding Darwin & Evolution," 1 Mar  
Interviewee, *WSU Today*, regarding Darwin Week events at WSU, 6 Feb

2008 Interviewee, *WSU Today*, regarding use of *New York Times* science articles in classroom, 31 Oct

Interviewee, *Daily Evergreen*, regarding significance of evolutionary theory  
2007 Interviewee, *Washington State Magazine* (spring issue), regarding historical research related to sympatric speciation and evolution

Interviewee, *WSU Today*, regarding embedded math in ENTOM 150 course, article entitled, "Flexing those math muscles," 2 Feb

Letter to Editor, *Washington State Magazine* (rejoinder to a Letter to the Editor regarding Anelli's comments on application of evolutionary principles)

### **POPULAR PRESS, MASS MEDIA (continued)**

- 2006 Interviewee, *WSU Today*, regarding “Self and Society” learning goal of the baccalaureate; article entitled, “Education as Transformation,” 12 April  
Interviewee, *Excellence!* (Honors College Newsletter for alumni), regarding new UH 410 course; article entitled, “Course sets tone for revamped curriculum while bridging science & culture,” fall issue
- 2005 Photograph with students, accompanying President Rawlin’s essay on President’s Teaching Academy, *Washington State Magazine*, pp.9-10 (Winter ‘04-’05)
- 2004 Featured professor, *WSU Undergraduate Viewbook* for prospective students, p. 12  
Interviewee, *WSU Today*, regarding Visible Knowledge Project, administered through Georgetown Univ.; article entitled, "Inquiry trumps lecture," 12 Nov. pp.1 & 8  
Article, *WSU Today*, on appointment to Teaching Academy Advisory Board; article entitled, "12 join Teaching Academy Board," 26 Mar. pp. 1 & 12  
Interviewee, *WSU Today*, on appointment as Chair of President's Teaching Academy Advisory Board; article entitled, "Teaching Academy board sets priorities," 17 Sept. p. 4  
Interviewee, *WSU Today*, regarding vote outcome for WA State Initiative #884, article entitled, "Faculty Speak Out: State of higher ed eyed," 12 Nov. p. 2
- 2003 Interviewee, *Daily Evergreen*, regarding new Tier I course, "Insects, Science, and World Cultures" (Entom 150), Feb 11
- 2001 Interviewee, *Hill Topics*, regarding teaching evolution at WSU, Aug  
Interviewee, *WSU Today* regarding WSU Critical Thinking Rubric, Oct  
KSPS-TV (Public Television, Spokane) Panel member for Forum on Evolution, representing teaching of evolution in the public school system, Sept (video available)
- 1999 Interviewee, *WSU Week*, regarding Marian E. Smith Faculty Achievement Award

### **PROFESSIONAL DEVELOPMENT (non-teaching related)**

- 2011 Participant in Provost’s Leadership Development Program, sessions from Jan- May  
Lunch with David Sloan Wilson and attended his IGERT presentation, “Evolving the future: toward a science of intentional change,” 6 Oct  
Lunch with Richard A. Muller, Common Reading Invited Lecturer, and attended his presentation, “Physics for future presidents: An update for 2011,” 27 Sept  
Breakfast with David Goff and attended his lecture on entomology forensics, 15 Apr  
Meeting with Ken Haynes, Catts Invited Speaker, and attended his presentations, “Resurging bed bug: Mysterious and maddening,” and “Pheromone mimicry by a specialized spider,” 7 & 7 Apr  
Training with Rebecca Stull for Angel Learning Management System, 20 Jan
- 2010 Participant, “General Education and Assessment,” Association of American Colleges and Universities Conference, Seattle, WA, 18-20 Feb
- 2009 Participant, “Transformational Leadership and Training (TiLT) workshop, “Academic Leadership: A Seminar for Faculty Considering or Continuing in Academic Leadership Roles,” 24 Oct  
Participant, “Darwin Festival,” Cambridge University, England, 4-10 Jul  
NSF Program Director Dr. Loverine Taylor, presentation on grant strategies, 22 Feb  
Pacific Science Center’s Portal to the Public, session on grant strategies, 15 Jan
- 2008 Participant, “Identifying publication criteria used by journals in which you want to publish,” Writing Programs workshop, WSU, 4 Jan

**PROFESSIONAL DEVELOPMENT (non-teaching related) (continued)**

- 2007 Consultations for using SharePoint electronic course space, Kimberly Green, CTLT
- 2006 "Can't we all just get along? Privilege, power, and difference," Allan Johnson, 15 Feb  
"Preventing sexual harassment," WSU, 2 Mar  
Participant, 3-day workshop, Faculty Learning Communities Institute, Claremont, CA, 21-23 Jun  
Participant, Faculty Learning Community, WSU
- 2005 Participant, 4-day workshop, "Program Assessment," Pacific Crest Institute, Moscow, ID, 31 May-3 Jun  
Participant, 3-day meeting/workshop, "General Education and Assessment: Creating shared responsibility for learning across the curriculum," American Association of Colleges and Universities, Atlanta, GA, 17-19 Feb  
Participant, half-day workshop by Holland/New Library, "Create Your Own Web Page," 29 Mar  
Participant, half-day presentation, "Multicultural Student Retention Summit," 10 Nov
- 2002 "Working for Change in Higher Education: What Community Organizers Can Teach Us," by Parker Palmer, 5 Mar  
"Medical ethics and the Holocaust," Faculty Research Symposium by W. Leid, Feb  
WSU Ethics Workshop, Guest speaker J. Michael Stebbins, 10 Apr  
"What happens it's true-- or if it isn't? Ethics in the Disciplines, Faculty Research Symposium by K. Struckmeyer and E. Voss, 4 Sept  
"Academic integrity and the changing university," Ethics in the Disciplines, Faculty Research Symposium, Faculty speak out, 2 Oct
- 2000 OGRD sponsored workshop: "Enhancing grantsmanship writing," 13 Apr; Bob Lowman

**PROFESSIONAL DEVELOPMENT (teaching-related)**

- 2012 Participant, 3-day visit with workshops by Diane O'Dowd. Keynote, "Creating intellectually stimulating environments in large classes;" workshops: "TA Training: learning to teach and balance the academic workload," "Why use physical models to illustrate biological processes," and "Learn before lecture," 1-3 Feb
- 2011 Invited participant, 2-day workshop, "Curriculum for the bioregion: Palouse project summer institute," 10-12 May
- 2009 Participant, "Using Case Studies for Effective Teaching," CAHNRS workshop 13 Nov  
Participant, "Evolution 101," all day workshop for K-12 educators, Society for the Study of Evolution National Annual Meeting, Moscow, ID, 12 Jun
- 2008 Participant, "Managing the demands of assigning writing within General Education courses: Tier II and Tier III," WSU, 24 Jan  
"Classrooms as intellectual communities: Using images and newspapers to make learning visible," WSU, Susan Kilgore, 26 Sept  
Participant, "Identifying publication criteria used by journals in which you want to publish," Writing Programs workshop, WSU, 4 Jan  
Participant, "Beginning the conversation: expectations for graduate and professional writing," WSU, 5 May  
Participant, "Qualitative and symbolic reasoning across the disciplines at WSU," C. Diefenderfer and R. Doan from Hollins University, 10 April

## **PROFESSIONAL DEVELOPMENT (teaching-related) (continued)**

- 2007 Participant, Teaching Academy Brown Bag Lunch: "If you teach, you can research and publish," 6 Nov  
Participant, workshop entitled "Seven levers for higher and deeper learning: research-based guidelines and strategies for improving teaching, assessment, and learning. Thomas A. Angelo, 11 Apr.  
Participant, workshop entitled "Making real the scholarship of teaching: developing your own classroom research agenda," Thomas A. Angelo, 12 Apr.  
"Pressures, promises, pitfalls, and pathways: Lessons from 20 years of assessment in U.S. Higher Education," Thomas A. Angelo, 11 Apr.  
Participant, Faculty Learning Community (monthly meetings), WSU  
"How People Learn," John Bransford, 20 Sept.  
Consultations for use of SharePoint electronic course space, Kimberly Green, CTLT
- 2006 Participant, 4-day meeting/workshop, "Liberal education in an era of global competition: anti-intellectualism and disinvestment; science and global learning in the undergraduate curriculum," American Association of Colleges and Universities, Washington, D.C., 25-28 Jan.  
"Can't we all just get along? Privilege, power, and difference," by Allan Johnson, 15 Feb.  
"Preventing sexual harassment," WSU module, 2 Mar.  
"Teaching that promotes learning," Maryellen Weimer, 11 Apr.  
Participant, 3-day meeting/workshop, Faculty Learning Communities Institute, Claremont, CA, 21-23 Jun.  
Participant, Faculty Learning Community, WSU
- 2005 Participant, 5-day workshop, "Quantitative Literacy across the Curriculum," organized by K. Vincent, Department of Mathematics, WSU, 23-27 May  
Participant, 4-day workshop, "Program Assessment," Pacific Crest Institute, Moscow, ID, 31 May-3 Jun.  
Participant, 3-day meeting/workshop, "General Education and Assessment: Creating shared responsibility for learning across the curriculum," American Association of Colleges and Universities, Atlanta, GA, 17-19 February  
Participant, half-day workshop, "Encouraging student engagement and educational effectiveness at WSU," Jillian Kinzie, Indiana University Center for Post-educational Research, WSU, 28 June  
Participant, half-day workshop by Holland/New Library, "Create Your Own Web Page," 29 Mar  
Participant, half-day presentation, "Multicultural Student Retention Summit," 10 Nov  
Participant, half-day workshop, "Practical ways to incorporate two of WSU'S six undergraduate learning goals-- critical thinking, self and society-- into your classroom," 12 Dec
- 2003 "Quantitative reasoning across the curriculum-- the Hollin's approach," Math department, WSU, 11 Apr
- 2002 "Thinking with Shakespeare," Critical Thinking Project presentation by M. Delahoyde, 6 May  
"Working for Change in Higher Education: What Community Organizers Can Teach Us," by Parker Palmer, 5 Mar

## **PROFESSIONAL DEVELOPMENT (teaching-related) (continued)**

- 2002 "What is a quality learning experience?" CAHE brown bag workshop, 10 Apr  
"Medical ethics and the Holocaust," Faculty Research Symposium by W. Leid, Feb  
WSU Ethics Workshop, Guest speaker J. Michael Stebbins, 10 Apr  
"What happens it's true-- or if it isn't?" Ethics in the Disciplines, Faculty Research  
Symposium by K. Struckmeyer and E. Voss, 4 Sept  
"Academic integrity and the changing university," Ethics in the Disciplines, Faculty  
Research Symposium, Faculty speak out, 2 Oct
- 2001 Invited 5-year participant, Visible Knowledge Project (VKP), administered through  
Georgetown University (a national \$4,000,000 assessment project, administered  
through Georgetown University, involving 51 faculty on 25 campuses; See  
<http://crossroads.georgetown.edu/vkp/>  
WSU Center for Teaching, Learning, and Technology: "Peer Facilitation," 14 Mar  
CTLT Workshop: "What constitutes the teaching of ethics?" 5 Sept
- 2000 Critical Thinking Group member, Fall semester (bimonthly meeting), CTLT  
CTLT / SALC Workshop: "Proven methods for facilitating web-based discussions in  
the Speakeasy Studio & Café," 6 Jan  
CTLT Brown Bag Forum: "Taking flight: successful approaches to student learning in  
the biological sciences," 29 Mar  
Society for the Study of Evolution, Education Committee, workshop entitled, "Using evolution  
to teach critical thinking & vice versa," June, Bloomington, IN  
Consultation with A. Beasley, CTLT, on revising ENTOM 401, to design and implement new  
assessment activities to promote greater critical thinking, 6 Oct  
OGRD sponsored workshop: "Enhancing grantmanship writing," 13 Apr; Bob Lowman  
CTLT Brown Bag Lecture, "Comparison of Teaching and Learning Goals among WSU  
Students and Faculty," 11 Oct  
Consultation with D. Bennett, CTLT, for instruction on WSU Teaching and Learning  
Goals Inventory program, 20 Oct  
Critical Thinking Study Participant, WSU (use of WSU rubric for ENTOM 401 term  
papers-- data contributed to the National Surveys of Student Engagement)  
Attendee, National Meeting of American Biology Teachers, Orlando, FL
- 1999 "Innovations" Workshops for Science, Math, Engineering and Technology Faculty;  
WSU, Spring Semester, organized by J. Meuth and S. Cooper  
Pedagogical workshops, "How to teach critical thinking as active learning?" 9 Aug 9;  
"Active learning as classroom assessment," 10 Aug; by Charles Bonwell  
CTL Brown Bag Forum: "Is a portfolio right for my class?" WSU, 20 Jan
- 1998 Tier III Capstone and Upper Division Honors Faculty Workshop, WSU, 9 & 10 Mar  
CTL Summer Workshop, WSU: "Critical thinking and its implications for teaching practice,"  
3 & 4 Jun  
CTL Roundtable Discussions; WSU, Fall semester (bimonthly meeting)  
CTL Brown Bag Forum: "Computer assisted teaching and learning: Why bother?" 30  
Sept  
CTL Brown Bag Forum: "Development of student evaluation forms for diagnostic  
feedback to students," 21 Oct
- 1997 Sixth National Conference on Evaluating & Rewarding Teaching: "Collaborative Effort to  
Change the Reward System for Teaching," Lincoln, NB; 19, 20, 21 Nov

## **PROFESSIONAL DEVELOPMENT (teaching-related) (continued)**

1996 CAHE Academic Programs Conference: "Documenting Teacher Performance," WSU, 10 Oct

## **OUTREACH/COMMUNITY SERVICE**

- 2005-2010 Palouse Discovery Science Center, Board Member (Secretary '05-'07)
- 2009 Darwin Week organizer (17-20 Feb), moderator for panel discussion (<http://ipem.anth.wsu.edu/darwinweek/discussion.html>), emcee for Mr. Humes' presentation (<http://ipem.anth.wsu.edu/darwinweek/talkradio.html>)
- 2008 Discussion panelist following airing of "Flock of Dodos" documentary, 28 Oct
- 2005 All-day K-12 workshops, "Life Cycle of Butterflies," EDS #105, 25 & 26 May
- 2003 Pullman Lions Club talk, "Evolution matters in our everyday lives," 24 Feb  
Pullman Wranglers talk, "An ill-mannered, disgusting person (on B.D. Walsh)" 8 May
- 2002-'01 Pullman Lentil Festival, booth with Palouse Science Discovery Center
- 2002 Pullman Kiwanis talk, "An (objective) look at evolution"
- 1999 Sunnyside Elementary School Science/Career Day, Pullman (presentation)
- 1999-'00 Co-chair, Lincoln Middle Science Fair, Pullman
- 1998-'99 Franklin Elementary School Science Fair Committee, Pullman
- 1998 Lincoln Middle School Career Awareness Program, Pullman (presentation)
- 1997 Volunteer for "Insect Expo" at ESA National Meeting, Nashville, TN
- 1996 Judge for Hebrew Day School Science Fair, Scranton, PA

## **COURSE WEB PAGES DEVELOPED (last 8 years)**

- Felsot, A. and Anelli, C. 2012. ENTOM 550, Insect Physiology. All course materials available electronically on Angel, Tegrity, AMS.
- Anelli, C. 2012. ENTOM 593, Scientific Literacy and Professional Preparedness. All course materials available electronically on Angel and Zotero.
- Anelli, C. 2008-2011. UH 290 SharePoint and Angel: syllabus, learning goals and outcomes, readings, links, PowerPoints, assignments, group work, case studies, etc.
- Anelli, C. 2007-2011. UH 398 SharePoint: learning goals, outcomes, syllabus, assignments
- Sheppard, C.A. 2005-2008. ENTOM 150 Sharepoint and Bridge: syllabus, learning goals and outcomes, readings, links, PowerPoints, assignments, etc.
- Sheppard, C.A. 2005. UH 330 Bridge (WSU online space): readings, assignments, threaded discussions, information for group presentations, etc.
- Sheppard, C.A. 2004. ENTOM 401 Bridge: activities, assignments, group project reports, rubrics, learning outcomes, etc.

## **COURSE DESCRIPTIONS**

*Note:* \* indicates course developed by Anelli; % indicates percent teaching responsibility

- \***Biol 141 General Biology I**-- Principles of biology (part one) for biology majors and pre-professional students in the life sciences. (100%) (University of Scranton) Enrollment: 100 students.
- \***Biol 142 General Biology II**-- Principles of biology (part two) for biology majors and pre-professional students in the life sciences. (100%) (University of Scranton) Enrollment: 100 students.
- \***Biol 100 Human Biology**-- Principles of human biology for nursing majors. (100%) (University of Scranton) Enrollment: 50 students.
- \***Zool 384 Invertebrate Zoology**-- Systematics, physiology & natural history of invertebrate phyla. (100%) (University of Scranton, U Idaho, and WSU) (100%) Enrollment: 25 students.

- Zool 486 Marine Invertebrate Communities**-- 1 week field course (Anelli assisted lead instructor) (WSU) Enrollment: 16 students.
- Entom 101 Insects & People: A perspective**-- The world's most abundant animals and their extensive effects on people yesterday and today. Course fulfills the Tier II General Education requirement. (50%) (WSU) Enrollment: 40 students.
- \*Entom 150 Insects, Science, and World Cultures**-- An interdisciplinary look at the global and historical impact of insects on humans in the arts, myths & legends, cuisine, agriculture, and medicine, including a survey of the use of insects and their products in culture, scientific research, and forensics. Weekly lab session; emphasizes active student learning and development of critical thinking and improved communication skills. Fulfills Tier I [Q] General Education requirement. (100%) (WSU) Enrollment: limited to 24 students.
- \*Entom 401 Biology and Society, Past and Present (revamped from \*Invertebrates in Biological Thought)**-- Development of biological concepts and knowledge from antiquity to the present, including evolutionary theory and its attendant controversy (past and present). Examines major advances achieved through invertebrate model systems. Fulfills the Tier III General Education requirement. (100%) (WSU) Enrollment: 24 students.
- Entom 550 Insect Physiology**-- General principles of insect physiology; mechanisms of vital processes in insects; organ, cellular, subcellular, chemical and physical levels. (Team taught; Anelli contributes 50%) (WSU) Enrollment: 27 students.
- \*Entom 442 Physiological Ecology of Insects**-- Effects of and responses to physical factors in the environment. Readings from current primary literature. (100%) (WSU) Enrollment: 12 students.
- \*Entom 490 Special Topics in Entomology**-- Research projects in entomology; historical/archival research or lab-based. (A-F grading) (100%) (WSU) Enrollment: 1-2 students.
- \*Entom 499 Special Problems in Entomology**-- Research projects in entomology; historical/archival research or lab-based. (S/F grading) (100%) (WSU) Enrollment: 1-2 students.
- \*Entom 590 Darwin & Evolution**-- Graduate student seminar emphasizing informed discussion, presentation, reading, and critical analyses of primary literature (historical and current). Topics: pre-Darwinian scientific thought (natural theology, philosophy, evolution, geology); Darwin & Wallace's paths to evolutionary theory; 19<sup>th</sup> century reception, support/criticism of *Origin of Species*; modern debate/controversy surrounding evolutionary theory; Darwin's influence on modern science and social thought. (100%) (WSU) Enrollment: 12 students.
- \*Entom 590 Preparing for the future: Educating others**-- Graduate student seminar focusing on university-level teaching. Topics include student development theory; course and curriculum design and assessment; active learning pedagogies; rubrics; advising; teaching philosophy and portfolio; job preparedness and search. . (100%) (WSU) Enrollment: 9 students.
- \*Entom 593 Scientific Literacy and Professional Preparedness**--For graduate students in the sciences, focus on effective pedagogy, preparation for job market (cover letter writing, Teaching Philosophy Statement, Course activity and rubric design, assessment. (100%) (WSU) Enrollment: 10 students
- \*Entom 593 Seminar in Entomology**-- Graduate Student discussion and presentation of current research in the discipline. (50%) (WSU) Enrollment: 16 students.
- \*Entom 600 Special Projects/Independent Study**-- Laboratory research projects for graduate students in entomology. (100%) (WSU) Enrollment: 1-2 students.
- \*UH 260 University Honors College Seminar, "From musings to mirth: What they don't teach you in biology class."** Discussion, written assignments and student oral presentations based on readings from award-winning non-technical science and nature writing literature. (100%) (WSU) Enrollment: limited to 16 students.
- \*UH 290 University Honors College, Science as a Way of Knowing: "Interdisciplinary Biological Science."** Science majors cultivate scientific habits of mind and examine case studies on complex, biologically relevant issues in society. They explore the foundations of modern biological and medical science; read primary literature to understand current methodology (experimental design, probabilistic and statistical reasoning, data representation and interpretation); and study the development, advancement, application and integration of two major biological disciplines: evolutionary biology and genetics. Course integrates biology across various disciplines (other sciences, music, architecture, visual arts) and contexts (e.g., religious, ethical, political, legal). (100%) (WSU) Enrollment: 25 students.

- \*UH 330 University Honors College, Western Civilization: "Science and Society: Diversity Issues in Western Culture."** Explores scientific and popular preconceptions, myths, and thinking underlying past and present diversity issues in Western culture. Begins with Darwinian theory and moves to an examination of its societal impact and ramifications (intelligence theories, U.S. immigration policy, forced sterilization, eugenics). Readings and discussions examine historical and contemporary perspectives of race, gender, environmental policies, technological advances, and a consideration of what science is (and what it is not). Grading based on class discussion, written assignments, and group presentations. (100%) (WSU) Enrollment: limited to 25 students.
- \*UH 398 University Honors College, Honors Thesis Proposal Seminar--** Seminar-style course with emphasis on class participation, oral presentation and final thesis proposal development. Assists student in choosing a thesis topic, finding a thesis advisor, and developing a proposal suitable for submission to the Honors College. (100%) (WSU) Enrollment: limited to 24 students.
- \*UH 410 University Honors College, Domain of the Sciences: "Insights from science, history, religion, and non-Western culture."** Examines modern approaches in science and historiography as two ways of knowing. Through case studies, course explores science as an embedded social/cultural construct. Readings and discussions examine societal factors and flawed science that gave rise to historical and contemporary issues of racism and sexism, Western vs. non-Western medicine, and Darwinian evolutionary theory vs. creationism (including Intelligent Design). (50%; co-taught with Prof. Sun, History) (WSU) Enrollment: limited to 25 students.