REBECCA M. PRICE
Interdisciplinary Arts & Sciences Program
University of Washington, Bothell
18115 Campus Way NE
Box 358511
Bothell, WA 98011-8246

EDUCATION

Ph.D. in Geophysical Sciences, The University of Chicago. December 2003. The function, macroevolution and macroecology of internal ornamentation in neogastropods.

M.S. in Geophysical Sciences, The University of Chicago. June 1999.

B.S. in Zoology with honors, University of Washington, Seattle. August 1997.

PROFESSIONAL EXPERIENCE

Assistant Professor. Interdisciplinary Arts and Sciences, University of Washington, Bothell (August 2006 - present).

Adjunct Curator. Department of Paleontology, Burke Museum of Natural History and Culture. (January 2007 - present).

Visiting Professor. Department of Biology, Elizabeth City State University, Elizabeth City North Carolina (Spring 2006).

SPIRE Postdoctoral Fellow. Institute for Science Learning, University of North Carolina (January 2004 - July 2006). Advisor: William M. Kier.

GRANTS

Collaborative Undergraduate Research Program, UW Bothell, 2007, $2000.

NSF Doctoral Dissertation Improvement Grant. 2000.

Geological Society of America Award for Student Research. 2000.

Paleontological Society Award for Student Research. 2000.

Lerner-Gray Award for Student Research in Marine Sciences, American Museum of Natural History. 2000.

Conchologists of America Award for Student Research. 1999 and 2000.

Link Fellowship for Graduate Research, Smithsonian Marine Station Fort Pierce, FL.1999.

Hinds Fund, Univ. of Chicago. 1999.

HONORS

Fellow, University of Washington Bothell Initiative for Community-Based Learning and Scholarship. 2007

Salisbury Fellowship, Univ. of Chicago. Spring 2001.

Fellow, Biodiversity Training Grant, Univ. of Chicago. 1997–1999.

McCormick Fellowship, Univ. of Chicago. 1997–1999.

Phi Beta Kappa. 1997–present.

Honorable Mention, NSF Graduate Research Fellowship. 1997.

TEACHING EXPERIENCE

Courses

The History of Life. Ancient life on Earth and its history on popular culture, including extended discussion on why intelligent design and creationism are not forms of science. University of Washington, Bothell. Spring 2007.

The Visual Art of Biology. A course that explores the mutual influence of natural history and the visuals arts. University of Washington, Bothell. Spring 2007.

Scientific Journeys: The Universe, Earth and Life. A course that integrates cosmology, physics, chemistry, geology and biology to talk intelligently about the history of the Universe and Earth. University of Washington, Bothell. Winter 2007.

Discovery Core I: Growing Things. The manner in which different biological systems grow and mature served as a vehicle for developing the skills freshmen need to develop to gain the most from college. University of Washington, Bothell. Fall 2006.

Biology for Majors II. Second semester of an introductory biology course. Material included biodiversity, systems biology, and ecology. Elizabeth City State University. Spring 2006.

Biology for Majors II Laboratory. Taught students to maintain a lab notebook while exploring biodiversity and plant and animal systems. Elizabeth City State University. Spring 2006.

Ecology Lab. Understanding experimental design by reading the primary literature and studying the demographic data from local cemeteries. with Dr. Roberto Frontera-Suau. Elizabeth City State University. Spring 2006.

Guest Lectures and Discussions at UW Bothell

The intersection between biology and chemistry. in BCUSP 152 General Chemistry by Dr. Dan Jaffe. May, 2007.

Spirals. in BIS 329 Symmetry by Dr. Cinnamon Hillyard. May, 2007.

Performance & Creativity Research Panel. in the Initiative for Creativity and Performance Research (ICPR) at UW Bothell. February, 2007.

Collecting snails. in BIS 300 Interdisciplinary Inquiry by Dr. Bruce Burgett. January, 2007.

Snails meet the scientific method. in BES 301 Science Methods and Practice by Dr. Dan Jaffe. October, 2006.

Water and biology. in BIS 392 Water and Sustainability by Dr. Rob Turner. October, 2006.

MENTORING EXPERIENCE

Ms. Erika Storbeck, University of Washington, Bothell. (Au 2007, projected) Project: Employing preconceptions to enhance teaching evolution at K-16 levels.

Ms. Valerie Heuschkel, University of Washington, Bothell. (Au 2007, projected) Project: The BioArt of Robert Mapplethorpe.

Mr. Anthony Hughes, Mr. Andrew Jerome, Ms. Kelsey Nebeck and Ms. Meredith Sibley, University of Washington, Bothell (2007). Project: Shell repair in marine snails. Activities included animal care, weighing snails, taking and archiving photographs, simple database management, reading and

analyzing the primary literature. Mr. Hughes also worked with me at the Friday Harbor Laboratories July and August 2007.

Mr. Tadae Clark and Ms. Jennai Pettis, Elizabeth City State University (2006). Project: How quickly do sea snails recover from damage to their shells? Activities included experimental design, chemically and mechanically degrading sea shells, animal care and maintaining aquaria, weighing shells, and analyzing data in Microsoft Excel.

Ms. Rebecca Williams, Fayetteville Technical Community College (2004) and Fayetteville State University (2005). Project: A Mathematical Model to Determine the Volume of Snail Shells. Activities included developing and implementing a model in MATLAB 7.0.1 (required computer programming), testing the model with empirical data, writing an abstract, and presenting a poster

INVITED TALKS

Finding functions in fossils: how paleobiologists decipher the lifestyles of extinct animals. Northwest Paleontological Association. March, 2007.

Finding Jobs. Annual Meeting of the American Malacological Society. July, 2006.

Trade-offs in shells. Elizabeth City State University, Shaw University, and Winston Salem State University, North Carolina, Sept. and Oct., 2005.

Measuring biodiversity: understanding discordant measurements in marine snails. North Carolina Central University, North Carolina Agricultural and Technical State University, University of North Carolina at Pembroke, and Johnson C. Smith University. North Carolina. Spring, 2005.

PUBLICATIONS

Droege J, Kochhar-Lindgren G, Leadley S, **Price RM**, Rosenberg B.R., Tippens B. University of Washington, Bothell. submitted to Tobolowsky BF and Skipper TL (Eds.), *Exploring the evidence: Reporting research on first-year seminars*, Vol. IV. Columbia, SC: University of South Carolina, National Resource Center for The First-Year Experience and Students in Transition.

Price RM and Wagner, PJ. Neogastropods in the North Eastern Pacific and the lack of a latitudinal trend in ornamentation. submitted to *Ecography.*

Price RM, Rosypal AC, Powell T & Kern B. A brief but comprehensive experience for recruiting minorities to the sciences. submitted to *Journal of College Science Teaching.*

Price RM. in prep. The sudden increase in disparity of internal shell features in a post-Paleozoic clade of fusiform gastropods. will submit to *Paleobiology.*

Price RM, Valdés A & Gosliner TM. in prep. Phylogeny of the *aperta* clade in the genus *Philine* (Gastropoda: Opisthobranchia). will submit to *Proceedings of the California Academy of Science.*

Price RM. 2003. The columellar muscle of neogastropods: muscle attachment and the function of columellar folds. *Biological Bulletin.* 205: 351-366.

Jablonski D, Roy K, Valentine JW, **Price RM** & Anderson PS. 2003. The impact of the Pull of the Recent on the history of marine diversity. *Science* 300:1133-1135.

Price RM. 2003. Columellar folds—why are they there? *American Conchologist.* 30:8-9.

Price RM. 2001. Review of Ancient Invertebrates and Their Living Relatives by Harold L. Levin. *Journal of Geology.* 110 (1): 122.

ABSTRACTS (* INDICATES STUDENT)

Williams RM* and **Price RM.** A mathematical model for exploring the trade-offs in energy associated with growing gastropod shells. *SICB Annual Meeting & Exhibition*. Society of Integrative and Comparative Biology, Orlando, FL: P3.40.

Price RM. 2005. Neogastropods in the North Eastern Pacific and the lack of a latitudinal ornamentation trend. *SICB Annual Meeting & Exhibition*. Society of Integrative and Comparative Biology, San Diego, CA: 211.

Price RM. 2004. Fun with shells: using the ecology of sea shells to introduce statistical programming. *IRACDA Retreat*, Atlanta, GA: 26.

Price RM. 2004. Ornamentation in neogastropods is surprisingly constant in the northern hemisphere of the Eastern Pacific. *SICB Annual Meeting & Exhibition*. Society of Integrative and Comparative Biology, New Orleans, LA: 300.

Price RM. 2003. Constant function or random evolution: changes in the apertural ornamentation of fusiform neogastropods since the Cretaceous. *SICB Annual Meeting & Exhibition*. Society of Integrative and Comparative Biology, Toronto, Canada: 279-280.

Price RM. 2003. The shapes of columellar folds are established early in the evolutionary history of fusiform neogastropods. In D Ó Foighil and T Lee (eds.), *American Malacological Society*, p. 49-50. American Malacological Society, Inc., Ann Arbor, MI.

Jablonski D, Roy K, Valentine JW, **Price RM &** Anderson PS. 2002. Pull of the Recent? What pull of the Recent? An analysis of marine bivalves. *GSA Abstracts with Programs* 34(6): 542.

Price RM. 2002. Is there a functional relationship between columellar folds and the columellar muscle in neogastropods? In RT Dillon, Jr. (ed.), *American Malacological Society*, p. 89. American Malacological Society, Inc., Charleston, SC.

Price RM. 2002. Evaluating a putative neogastropod adaptation: is there a functional relationship between columellar folds and the columellar muscle? SICB Annual Meeting & Exhibition, p. 350. Society of Integrative and Comparative Biology, Anaheim, CA.

Price RM. 2001. Using constructional data to detect convergence: an underutilized approach to studying adaptation in the fossil record. *Paleobios*. (21, S2): 105-106.

Price RM. 2000. Columella muscle attachment in *Leucozonia nassa:* implications for the interpretation of columellar fold function. Abstracts, American Malacological Society/Western Society of Malacologists: 29.

WORKSHOPS

Washington Center National Summer Institute on Learning Communities. 5-day workshop evaluating the Discovery Core and First Year Experience after the first year of CUSP. Team leader, Gray Kochhar-Lindgren. June 2007.

Dr. Kanta Kochhar-Lindgren, Performance and Pedagogy. 2-day workshop on using movement and physical activities as pedagogical tools. Winter 2007.

Computational and Mathematical Biology Workshop, sponsored by the Professional Enhancement Programs of the Mathematical Association of America. Dr. Eric Marland, Dr. Raina Robeva and Dr. Robin Davies, Sweet Briar College, VA. June 2006.

Dr. Richard M. Felder and Dr. Rebecca Brent, Effective College Teaching. Overview of learning styles, classroom management, active learning, and effective assessment techniques. May 2006.

Institutional Research and Academic Career Development Awards (IRACDA) Retreat. Includes workshops on active learning techniques, peer-led learning, technology in the classroom, grantsmanship, and effective leadership styles. Summers 2004 and 2005.

Dr. Ed Neal, SPIRE Teaching Workshop. 11-week series addressing student learning styles, how to teach critical thinking, evaluating learning outcomes, managing a classroom, planning lessons, and effective grading. Center for Teaching and Learning, UNC-CH. Spring 2005.

Dr. Richard M. Felder and Dr. Rebecca Brent, Research on Teaching and Learning in the Sciences. Elements of and approaches to educational research. November 2004.

Dr. Robert Beichner, Student-Centered Activities for Large Enrollment Undergraduate Programs (SCALE UP) Workshop.Teaching college biology, chemistry, and physics through team-based experiments instead of lectures. North Carolina State University. October 2004.

PROFESSIONAL ORGANIZATIONS

American Association for the Advancement of Science. 2005-present.
Association for Biology Laboratory Education. 2005-present.
Sigma Xi. 2005-present.
Society of Integrative and Comparative Biology. 2002–present.
American Malacological Society. 1999–present.
Paleontological Society. 1998–present.

SERVICE

University

Member, Curricular Area Working Group for the B.S. in Environmental Science, UW Bothell, 2007-08
Member, Curricular Area Working Group for the B.A. in Interdisciplinary Studies: Science Technology and Society, UWB Bothell, 2007-08
Affiliate, Curricular Area Working Group for the BA in Interdisciplinary Studies: Inter-Arts, UW Bothell, 2007-08
Member, Assessment Committee for Interdisciplinary Research, 2007.
Member, Mathematics and Natural Science Disappearing Task Force, 2006-07.

Professional

Reviewer, *American Malacological Bulletin*, 2006.
Reviewer, *Biological Bulletin*, 2005.
Discussion leader, UNC Summer Reading Program, 2004-2005.
Tour Guide, Invertebrate Zoology Laboratory, for students from East Bladen High School, NC. 2004.
Student Representative, American Malacological Society. 2001–2003.
Symposium Co-chair, Graduate Student Exposition, Dept. of Geophysical Sciences, Univ. of Chicago. 2000 and 2001.
Bio Outreach Educator, Univ. of Chicago. Teaching in Chicago Public Schools. 1999–2002.
Consultant for girl scouts, Chicago Academy of Sciences. 1999–2001.
Seminar organizer for weekly paleontological talks, Univ. of Chicago. 1998–2000.