

MATTHEW M. LAPOSATA

Associate Professor of Environmental Science
Department of Biology and Physics
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EDUCATION:

Ph.D., Ecology, Conservation Biology Option, The Pennsylvania State University (1998)
Advising Professor: William A. Dunson
Dissertation Research: Amphibian Ecotoxicology and Conservation

M.S., Biology, Bowling Green State University (1994)
Advising Professor: Francis Rabalais
Thesis Research: Chemical and Behavioral Ecology of Snakes

B.S., Biology Education, Indiana University of Pennsylvania (1992)
Project PI: Terry Peard
Undergraduate Research Assistant: Ecology of the "Freshwater Jellyfish", *Craspedacusta sowerbii*

POSITIONS HELD:

Assistant/Associate Professor of Environmental Science, Kennesaw State University (1999 – present)

- General Education Science Sequence Coordinator (2003 - present)
- ESA21 Project Co-Director, <http://esa21.kennesaw.edu>, (2001 – present)
- TEAMS Project Co-Director, <http://teams.kennesaw.edu>, (2005 – present)

Instructor, Department of Biology, The Pennsylvania State University (1998 – 1999)
Graduate Teaching/Research Assistant, The Pennsylvania State University (1995 – 1998)
Graduate Teaching Assistant, Bowling Green State University (1993 – 1994)
Student Teacher, Punxsutawney, PA, Junior High School (Fall 1992)

COURSES TAUGHT:

Interdisciplinary Science I and II/Science Society, and the Environment I and II (1999 – present)
Biology: Basic Concepts and Biodiversity, Environmental Science, Ecotoxicology (1998 – 1999)
Lab instructor for General Biology, Introductory Ecology, and Experimental Field Biology (1993 – 1998)

AWARDS AND HONORS:

Georgia Board of Regents Award for the Scholarship of Teaching and Learning (2008)
Scholarship Award for General Education, Kennesaw State University (2003)
e-Learning Award, College of Science and Mathematics, Kennesaw State University (2001)
"Mentor" teaching assistant – The Pennsylvania State University (1997 – 1998)
Outstanding Graduate Teaching Assistant Award, Bowling Green State University (1993)

PROFESSIONAL ORGANIZATIONS:

Society for the Study of Amphibians and Reptiles, National Science Teachers Association, Georgia Academy of Science

FUNDING RECEIVED:

- 2007 Matthew Laposata, "Project Scorecard", Incentive Funding Awards for Scholarship, Kennesaw State University, \$7,071
- 2005 John Pratte and Matthew Laposata, "ESA21: The Next Generation", Improving Teacher Quality Block Grant, \$32,165.
- 2005 Matthew Laposata and Tom Brown, "Technology Enhanced Activity Modules for Science (TEAMS)", National Science Foundation (Course, Curriculum, and Laboratory Improvement Program), \$68,438.
- 2002 John Pratte, Chris Fox, Matthew Laposata, Kenneth Rhinehart, and Charlene Waggoner, "ESA 21: Environmental Science Activities for the 21st Century", National Science Foundation (Course, Curriculum, and Laboratory Improvement Program), \$322,244.
- 2002 Tom Brown, Matthew Laposata, and Stephen Rahn, "Technology Enhanced Activity Modules for Science (TEAMS)", Kennesaw State University Incentive Grant Program, \$7,400.
- 2000 John Pratte, Marina Koether, Matthew Laposata, and Gail Schiffer, "General Education Environmental Science: An Interdisciplinary Laboratory Program for the 21st Century", National Science Foundation (Course, Curriculum, and Laboratory Improvement Program), \$74,985.
- 2000 Gail Schiffer, Matthew Laposata, and Marina Koether, "On-line, Real-world Environmental Science Exercises", Master Teaching Award, Kennesaw State University, \$4,999.
- 1999 Matthew Laposata and Stephen Schaeffer, "Web-based Genetics Simulation for Biology Courses", Fund for Excellence in Learning and Teaching, The Pennsylvania State University, \$4,000.
- 1996 - 1998 Matthew Laposata, "The Effects of Treated Wastewater Effluent Irrigation on Temporary Pond-breeding Amphibians", Office of Physical Plant, The Pennsylvania State University, through the Pennsylvania Cooperative Fish and Wildlife Research Unit, \$7,900.
- 1993 Matthew Laposata, "Reactions of Neonate Corn Snakes to the Airborne Odors of White-footed Mouse Nests", Graduate College, Bowling Green State University, \$300.

PRESENTATIONS:

- Feb. 2008 Matthew Laposata and Tom Brown. "TEAMS: Technology-Enhanced Activity Modules for Science", 2008 Forum on Teaching and Learning in Higher Education, Auburn University, Auburn, AL.
- Aug. 2007 Matthew Laposata and Tom Brown. "The TEAMS Project: Advancing Elementary Level Inquiry Science Teaching with Technology (poster)", MERLOT 7th Annual International Conference, New Orleans, LA.
- Apr. 2007 Tom Brown and Matthew Laposata. "The TEAMS Project: Technology Enhanced Activity Modules to Improve Science Learning", National Science Teachers Association Annual Conference, St. Louis, MO.
- Jan. 2007 Matthew Laposata. "Environmental Science Activities for the 21st Century", Liberal Education and Democracy's Big Questions, Association of American Colleges and Universities, New Orleans, LA.

- Nov. 2006 Matthew Laposata. "Environmental Science Activities for the 21st Century" (poster), American Water Resources Association Annual Meeting, Baltimore, MD.
- Sep. 2006 Matthew Laposata. "ESA21: Environmental Science Activities for the 21st Century", Southeastern Scholarship Conference on E-Learning, Macon State College, Macon, GA.
- Aug. 2006 Matthew Laposata and John Pratte. "Environmental Science Activities for the 21st Century" (poster), Campus Technology Conference 2006, Boston, MA.
- Aug. 2005 John Pratte and Matthew Laposata. "Environmental Science Activities for the 21st Century" (poster), SENCER Summer Symposium 2005, Santa Clara University, San Jose, CA.
- Apr. 2005 Matthew M. Laposata and John Pratte. "ESA21: Environmental Science Activities for the 21st Century" (poster), Pedagogies of Engagement, Association of American Colleges and Universities, Bethesda, MD.
- Oct. 2004 Matthew M. Laposata. "Effects of Treated Wastewater Effluent Irrigation on Vernal Pond-breeding Amphibians" (Invited Presentation), Western Carolina University, Cullowhee, NC.
- June 2004 Matthew Laposata, John Pratte, Charlene Waggoner, Kenneth Rhinehart, and Chris Fox. "Environmental Science Activities for the 21st Century", Association of Biology Laboratory Education Conference, Bowling Green State University, Bowling Green, OH.
- Apr. 2004 John Pratte and Matthew Laposata. "Environmental Science Activities for the 21st Century", National Science Teachers Association National Meeting, Atlanta, GA.
- Oct. 2003 Matthew Laposata and John Pratte. "The ESA21 Project", SENCER Regional Meeting, Charleston, SC.
- Aug. 2003 John Pratte and Matthew Laposata. "Science 1101 Online: NSF-Funded Curriculum Developments " (Invited Session Presentation), Sharing and Connecting Across Campus: Spotlighting Faculty, College & Campus Initiatives, Kennesaw State University, Kennesaw, GA.
- Mar. 2003 Matthew Laposata and John Pratte. "ESA21: Environmental Science Activities for the 21st Century", Georgia Academy of Science, Reinhardt College, Waleska, GA.
- Oct. 2001 Matthew Laposata. "Practical Uses for Technology in College Courses " (Invited Session Presentation), University System of Georgia Teaching and Learning Conference, Georgia Center for Continuing Education, Athens, GA.
- Oct. 2001 Matthew Laposata, John Pratte, Gail Schiffer, and Marina Koether. "Connecting with the Environment: A Novel Approach to Lab". Kennesaw State University e-Learning group, Kennesaw, GA.
- Aug. 2001 Matthew Laposata, John Pratte, Gail Schiffer, and Marina Koether. "Connecting with the Environment: A Novel Approach to Lab" (poster), SENCER Summer Symposium 2001, Santa Clara University, San Jose, CA.
- Apr. 2001 Matthew Laposata. "Practical Uses for Technology in Science Courses" (Invited Workshop Presentation). The Teaching of Science: New Approaches, Kennesaw State University, Kennesaw, GA.
- Apr. 2001 John Pratte, Matthew Laposata, Gail Schiffer, and Marina Koether. "General Education Environmental Science: An Interdisciplinary Laboratory Program for the 21st Century" (poster). Fourth Annual Celebration of Scholars and Artists, Kennesaw State University, Kennesaw, GA.
- Mar. 2001 Matthew Laposata. "Using Streaming Video Clips from ABC News in Your Course" (poster). Kennesaw State University E-Learning Retreat, Dillard, GA.
- Mar. 2001 John Pratte, Matthew Laposata, Gail Schiffer and Marina Koether. "Environmental Science Laboratory", Society for College Science Teachers at the annual conference of the National Science Teachers' Association, St. Louis, MO.
- Mar. 2001 Matthew Laposata. "Technology and Teaching: Three Examples" (Invited Presentation), KSU General Education Council for Faculty Development seminar series, Kennesaw State University, Kennesaw, GA.
- Mar. 2001 Matthew Laposata. "PDF files: A College Professor's Best Friend". Georgia Academy of Science, Coastal Georgia Community College, Brunswick, GA.

- Feb. 2001 John Pratte, Matthew Laposata, and Gail Schiffer. "General Education Environmental Science: An Interdisciplinary Laboratory Program for the 21st Century" (poster). Best Practices in General Education and Its Assessment, Association of American Colleges and Universities, Atlanta, GA.
- Sept. 2000 Timothy S. McCay, Gerald R. Storm, Todd W. Bowersox, Les E. Lanyon, Matthew M. Laposata, and Richard H. Yahner. "Ecological Responses to Land Application of Treated Wastewater in Pennsylvania". Seventh Annual Conference of the Wildlife Society, Nashville, TN.
- June 2000 Matthew Laposata. "Using Student Web Presentations in Large-enrollment Courses" (web poster). National Educational Computing Conference 2000, Atlanta, GA.
- Apr. 2000 Matthew Laposata, John Pratte, and Gail Schiffer. "Educating the Masses: Science Education at Kennesaw State University" (poster). Rethinking Scientific Literacy in the Age of Diversity and Specialization, Association of American Colleges and Universities, Charleston, SC.
- Apr. 2000 Gail Schiffer, D. Don Davis, Pamela Rhyne, and Matthew Laposata. "Beyond PowerPoint: Effective Uses of Technology for Teaching". Society for College Science Teachers, Annual Conference of the National Science Teachers' Association, Orlando, FL.
- Mar. 2000 Matthew Laposata. "A 'True' Course Web Site". Georgia Academy of Science, Valdosta State University, Valdosta, GA.
- Feb. 2000 Matthew Laposata. "Completing the Circle: Using Student Web Presentations in College Courses". Georgia Conference on College and University Teaching, Kennesaw State University, Kennesaw, GA.
- Jan. 2000 Matthew Laposata. "Amphibians: Diversity, Declines, and Deformities" (Invited Presentation). Chattahoochee Nature Center, Roswell, GA.
- June 1999 Matthew M. Laposata and William A. Dunson. "Effects of Spray-irrigated Wastewater on Temporary Pond-breeding Amphibians" (poster). Joint meeting of the ASIH, AES, HL, and SSAR (Ichthyologists and herpetologists), The Pennsylvania State University, University Park, PA.
- Apr. 1999 Matthew Laposata, William Hamilton, and Deborah Sillman. "Use of Student Web Presentations in Science Courses". Teaching and Learning with Technology Symposium, The Pennsylvania State University, University Park, PA.
- Dec. 1998 Matthew Laposata and John Waters. "Virtual vs. Traditional Teaching Strategies". Participation: Strategies for Successful Classroom Interaction, a Science Education workshop sponsored by Benjamin/Cummings Science, Kingsborough Community College, Brooklyn, NY.
- Apr. 1998 Matthew M. Laposata and William A. Dunson. "Comparisons of Amphibian Reproductive Output, Egg Hatching Success, and Larval Survival in Natural and Treated Wastewater Effluent-irrigated Vernal Ponds". The Greater Philadelphia Ecology and Evolution Meeting, The University of Pennsylvania, Philadelphia, PA.
- Apr. 1998 Matthew M. Laposata and William A. Dunson. "Effects of Treated Wastewater Effluent Irrigation on Vernal Pond-breeding Amphibians". Ecology Program seminar series, The Pennsylvania State University, University Park, PA.
- Apr. 1997 Matthew Laposata and Francis Rabalais. "Behavioral and Chemosensory Reactions of Neonate and Juvenile Corn Snakes, *Elaphe g. guttata*, to the Airborne Odors of White-footed Mouse, *Peromyscus leucopus*, Nests". Pennsylvania Natural History Conference, Powdermill Biological Station, Rector, PA.

DIGITAL PROJECTS:

Please visit <http://science.kennesaw.edu/~mlaposat/> for the most current information.

- 2005 - present Technology Enhanced Activity Modules for Science (TEAMS)
<http://teams.kennesaw.edu>
NSF-funded initiative that uses technology to promote inquiry science teaching in the elementary-school classroom.
- 2001 - present ESA21: Environmental Science Activities for the 21st Century (Co-Director)
<http://esa21.kennesaw.edu/>
NSF-funded initiative developing activities for environmental science courses.
- 2000 - present Science 1101-1102: Course Web Site, Kennesaw State University.
<http://science.kennesaw.edu/biophys/gened/1101-1102>
Course web site for general education course in science. Provides instructors with course syllabi, activities, and lists of multimedia resources.
- 2000 - 2001 eCore Integrated Science Course
<http://www.gactr.uga.edu/ecore/>
Integrated Science course for state-wide eCore project in Georgia offering online General Education courses.
- 1998 - 1999 GeNETics Project, The Pennsylvania State University.
Pilot project that developed nine online "lectures" for the genetics section of a General Biology Course. Wrote five of nine lectures and oversaw the development of the remaining four. Shortly thereafter, major funding for full development was secured.

PUBLICATIONS:

- Laposata, M. 2007. An Environmental Dilemma: A Case Study in International Immigration. *Science Education and Civic Engagement: An International Journal* 1:72-75.
- Pratte, J. M. and M. M. Laposata. 2005. The ESA21 Project: A Model for Civic Engagement. *Journal of College Science Teaching* 35:39-43.
- Laposata, M. and J. Pratte. 2005. The ESA21 Project: Environmental Science Activities for the 21st Century. *Tested Studies for Laboratory Teaching, Volume 26*: 402-405. *Proceedings of the 26th Workshop/Conference of the Association for Biology Laboratory Education (ABLE)* (M.A. O'Donnell, Editor).
- Laposata, M. M. 2005. Randy's Return: A Case Study in Food Safety Regulation. *Crossroads: Research in Ethical Leadership* 2005:62-68.
- Laposata, M. M., T. Howick, and M. J. Dias. 2002. Current events and technology: TV and radio on the web. *Science Scope* 25:82-85.
- Laposata, M. M. and W. A. Dunson. 2000. Effects of spray-irrigated wastewater effluent on temporary pond-breeding amphibians. *Ecotoxicology and Environmental Safety* 46:192-201.
- Laposata, M. M., and W. A. Dunson. 2000. Effects of treated wastewater effluent irrigation on terrestrial salamanders. *Water, Air, and Soil Pollution* 119:45-57.
- Laposata, M. M. 1999. *Elaphe guttata guttata* (Corn snake). Agonistic interactions with potential prey. *Herpetological Review* 30:100.
- Laposata, M. M., and W. A. Dunson. 1999. Enclosure design for ecotoxicological studies of terrestrial salamanders. *Herpetological Review* 30:29-30.

Laposata, M. M., and W. A. Dunson. 1998. Effects of boron and nitrate on amphibian egg hatching success. *Archives of Environmental Contamination and Toxicology* 35:615-619.

In Preparation:

Laposata, M. M., M. Dias, S. McCullagh, R. Matson, and W. McCoy. College student perceptions of the nature of science and evolution.