

**RACHEL CLARK**  
1903 Lexington Avenue  
Moscow, Idaho 83843  
208.882.2968  
[rclark@nasw.org](mailto:rclark@nasw.org)

## Education

1995 M.S. Zoology, University of New Hampshire.  
1993 B.A. Biology and B.A. Music Theory, Degree with Distinction. Goucher College.

## Professional experience

1998- Freelance science & environment writer  
I develop, research, write, and contribute educational materials, radio scripts, magazine and newspaper articles, and other materials for clients, who include:  
\* *MathSoft, Inc.* and their award winning Web site [www.studyworksonline.com](http://www.studyworksonline.com), targeted to secondary science students.  
\* *McDougal Littell Inc.*, a Houghton Mifflin Company that produces textbooks for middle school science students.  
\* *Earth and Sky Radio Series*, an internationally syndicated program heard on many National Public Radio stations and around the world by more than four million people each day.  
\* *Finger Lakes Productions, Inc.*, a company that produces the nationally syndicated radio programs Nature Watch, Ocean Report, and EnvironMinute.  
\* Magazine and newspaper clients like *Living Bird Magazine*, *Cornell Plantations Magazine*, *Orion Magazine*, and *The Ithaca Times*.

2000 Part-time biology lecturer. Ithaca College (spring and fall semesters), Ithaca, NY. I taught Fundamentals of Biology (for non-majors) laboratories.

1998-99 Technical writer. Publications and Information Group, Cornell Information Technologies, Ithaca, NY. I wrote and edited both print and on-line computer documentation for Cornell's computer users.

Spring 1998 Freelance copyeditor. *Ecology*, Ecological Society of America, Ithaca NY. I copyedited scientific manuscripts prior to their publication.

1997-98 Science writer & webmaster. Cornell University Program on Breast Cancer and Environmental Risk Factors (BCERF), Ithaca, NY. I developed, researched, and wrote fact sheets for a general audience. I managed and facilitated the restructuring of a large, complex Web site.

1996-97 Ecological research assistant. Harvard Forest (Harvard University), Petersham, MA. National Science Foundation "Collaborative Research at Undergraduate Institutions" Program. I worked with three Principal Investigators and undergraduate researchers to examine the effects of human land-use legacies on present and future forest ecosystem function. After the summer field season, I remained on site to take data, implement field trials, and manage site logistics.

Spring 1996 Substitute teacher. Grades K-12, Swampscott, MA. In addition, I was repeatedly invited by science teachers to give guest presentations on marine biology and on careers in biology.

1993-95 Teaching assistant. Department of Zoology, University of New Hampshire, Durham, NH. Comparative Vertebrate Morphology, General Ecology, and Animal Behavior. Besides teaching, I also redesigned and implemented the content for Animal Behavior laboratories.

## Publications

### General audience Educational Materials

#### MathSoft, Inc. (2000-present)

I develop and write on-line science curricula for StudyWorks!Online. Examples include:

- "Of Mice and Elephants: Predicting Population Growth" [featured as a "SciLink" by The National Science Teachers Association]. This lesson helps students see how different vital rates affect population growth rate.  
[www.studyworksonline.com/cda/content/explorations/0,,NAV2-75\\_SEP479,00.shtml](http://www.studyworksonline.com/cda/content/explorations/0,,NAV2-75_SEP479,00.shtml)
- "Global Warming: Detecting The Truth" [featured in Lightspan's StudyWeb® as one of the best educational resources on the Web]. Eight lessons help students explore the scientific evidence for climate change, think critically, and reach their own conclusions.  
[www.studyworksonline.com/cda/explorations/main/0,,NAV2-79,00.html](http://www.studyworksonline.com/cda/explorations/main/0,,NAV2-79,00.html)
- "You Be the Predator: Simulating Natural Selection." This lesson allows students to "select" parents who contribute to future generations by removing "prey" from a population.  
[www.studyworksonline.com/cda/content/explorations/0,,NAV2-75\\_SEP898,00.shtml](http://www.studyworksonline.com/cda/content/explorations/0,,NAV2-75_SEP898,00.shtml)

I develop content for CD tutorial software, StudyWorks for Science Deluxe

- "How To Write A Research Paper." 7 lessons for the 2001 Edition
- "Internet and Technology: The History of the Internet and How to Use the Internet to do Research." 10 lessons for the 2000 Edition

I contribute dozens of science and environment news briefs.

Titles include "CO<sub>2</sub>: Culprit or Conspirator?," "Birds, Caterpillars, and Climate," "Missing Heat Found in World Oceans," "Towers Cause Bird Deaths," "Particulates Are Bad News," "Red Colobus Declared Extinct," "Saving Salmon," "State of the Bay Remains Grim," "Agents of (Evolutionary) Change," "Wild Dolphins 'Whistle Match,'" "Microbes Snack on Shale," and "Does Dietary Fat Deserve its Bad Rap?" For a complete list visit the following links:

Environment: [www.studyworksonline.com/cda/newsandinfo/main/0,,NAV4-43,00.html](http://www.studyworksonline.com/cda/newsandinfo/main/0,,NAV4-43,00.html)

Science: [www.studyworksonline.com/cda/newsandinfo/main/0,,NAV4-42,00.html](http://www.studyworksonline.com/cda/newsandinfo/main/0,,NAV4-42,00.html)

#### McDougal Littell Inc. (2000-present)

I write assigned feature articles and text dealing with topics in the earth sciences for middle school science textbooks.

### Radio

#### Earth & Sky (2000-present)

I contribute dozens of radio scripts. Titles include "Rachel Carson," "Ancient Fire," "Ozone Recovery," "Kirtland's Warbler," "Wiring the Deep Sea," "Paving the Way to Global Warming?," "What Salmon Need," "Earth's 'Missing Warming,'" "Beetle Alert," "Moth Chemistry," "Mercury Mystery," "Urban Forests," and "Other Greenhouse Gases."

#### Finger Lakes Productions (1998-2000)

I authored over one hundred radio scripts. *Ocean Report* titles include "Seaweed Scarves," "Coral Diseases," "Enzyme Indicator" (parts 1,2). *EnvironMinute* titles include "Bioprospecting," "Count Down to 6 Billion," and "Pesticides in Produce." *Nature Watch* titles include "Monarch Migration," "Elephant Sound," and "Caribou on the Move."

*Magazine*

"The Place Where You Live: Ithaca, New York." Winter 2001, *Orion Magazine*  
 "Where Have All the Hummingbirds Gone?," Spring 2000 cover story, *Living Bird Magazine*  
 "Telling Tree Time," Winter/spring 2001, *Cornell Plantations Magazine*.  
 "Purple Loosestrife on the Loose," Summer/fall 1999, *ibid*.

*Newspaper*

"Aging Power Plants Need to Come Clean," 2.18.99, *Ithaca Times*.  
 "Sea Changes," 3.11.99, *ibid*.  
 "In Land We Trust: Ithaca Organization Celebrates Community and Conservation," 5.27.99, *ibid*.  
 "Deep Blue Something: The Natural History of Cayuga Lake," 6.10.99, *ibid*.

*Outreach*

"Biodiversity Principles and Applications: Conference for Natural Resource Professionals In New Hampshire. A Summary." University of New Hampshire Cooperative Extension. 1995.

Cornell University Program on Breast Cancer and Environmental Risk Factors (1997-98)

I developed, researched, and was the first author on three BCERF fact sheets:

- " The Biology of Breast Cancer"
- " Estrogen and Breast Cancer Risk: What is the Relationship?"
- " Estrogen and Breast Cancer Risk: What Factors Might Affect a Woman's Exposure to Estrogen?"

I collaborated to redesign the large BCERF Web site, which was featured as a "Hot Pick" in Science, October 2, 1998. [www.cfe.cornell.edu/bcerf/](http://www.cfe.cornell.edu/bcerf/)

*Other*

"Biotechnology: Biosafety & Biodiversity - An Italian View," *Italian Technology News*. Newsletter published by the High Technology Division of the Italian Trade Commission, Spring 2000.

"Guide to the Judd Falls Nature Trail" Summer 1999. Rocky Mountain Biological Laboratory.

Peer-reviewed papers

2001 Clark, R. and C.C. Caudill. Females of the Marine Amphipod *Jassa marmorata* mate multiple times with the same or different males. *Marine and Freshwater Behavior and Physiology*. Vol. 34, pp. 131-138.

1997 Dimorphic Males Display Alternative Reproductive Strategies in the Marine Amphipod *Jassa marmorata*. *Ethology* 103, Vol. 7, pp. 531-553.

Technical publications

1997-98 Cornell Information Technologies

I worked with publications colleagues and computer programmers to research, write, and edit numerous print and on-line documents for computer-users, including:

- "Access Cornell's Network Services Without Bear Access"
- "How to Handle Business E-Mail at Cornell by Using Special Mailboxes," (edited and updated).
- "How to Use Disk-Free Eudora"
- "Using Bear Access and Network Services in the ATS Labs," (edited and updated).
- "Various "Get Connected" guides including connecting to the campus network using ethernet versus dial-up connections (edited and updated).
- "Get Connected with ResNet," (collaborative). 1st Place award for the category *Computing How-To-Guides/Printed* at the 1998 meeting of the Special Interest Group for University and College Computing Services (SIGUCCS).

#### Other

1993

Environmental Predictability and Species Diversity: Are There Other Factors Involved? Phi Beta Kappa Award of Excellence, Goucher College.

#### **Research presentations & workshops**

1998 How to Make Your Web Publications Click, Staff Workshop, Cornell Univ., Ithaca, NY  
 1996 Invited Research Seminar, Harvard Forest, Harvard Univ., Petersham, MA  
 1995 Master's Thesis Defense Seminar, Univ. of New Hampshire, Durham, NH  
 1995 The Society for the Study of Evolution, McGill Univ., Montreal, Quebec  
 1995 The Benthic Ecology Meetings, Rutgers University, New Brunswick, NJ  
 1993 Nat'l. Conference for Undergraduate Research Symp., Salt Lake City, UT

#### **Professional organizations**

2000- Society for Environmental Journalists  
 2000- National Writers Union  
 1999- National Association of Science Writers  
 1999- Rocky Mountain Biological Laboratory, voting member.