

**Rosanna L. Mattingly, PhD**  
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## Education

PhD Aquatic Ecology, Oregon State University, Corvallis  
Oregon Secondary Teaching Certification in Biology, Math, and Integrated Science  
MS Fisheries and Wildlife, Michigan State University, East Lansing  
BA Biology, University of Louisville, Kentucky  
Additional update courses in computer applications and website design

## Areas of Expertise

Topics I have written about, studied, and care deeply about include: biological communities, ecology, fish and wildlife habitat, honey bees and beekeeping, aquatic insects, marine systems, natural resources and resource management, natural-cultural systems, Northwest forests, Pacific salmon, science and interdisciplinary education, streams and rivers, watersheds, wetlands

## Services

Meta Writing and Education Services, Portland OR [www.metawriting.com](http://www.metawriting.com)

- Writing, editing, and page layout | Preparing nonfiction materials for print and online publication, with specialization in the sciences
- Managing projects with multiple authors from conception to print and online publication
- Working in partnership with authors and researchers throughout the editing/publishing process on projects that include science books, research articles, technical and progress reports, theses and dissertations, and memoirs
- Presenting science and technical concepts to general audiences | Developing interdisciplinary curricula and educational materials based in science
- Editing work by those for whom English is a second language
- Engaging in research through print, personal interview, and Internet resources
- Providing guidance and direct instruction

## Selected Writing/Editing Projects

- *Freshwater Wetland Restoration*, Pacific Habitat Services
- Research publications for submission to professional journals | theses and dissertations
- Starker Lectures, College of Forestry, Oregon State University
- *Restoring Salmon to the Columbia River Watershed: A tribal perspective*, Columbia River Inter-Tribal Fish Commission
- *Veronica's Diary: The Journey of Innocence*, Papyrus Press

## Selected Writing/Editing Projects with Graphic Design

- *Honey-Maker: How the Honey Bee Worker Does What She Does*, Beargrass Press
- *The Bee Line*, newsletter of the Oregon State Beekeepers Association (since 2005)
- *Where the Huckleberries Grow | Even Seagulls Cry*, Linden Press
- *Managing for Biodiversity in Young Douglas-Fir Forests of Western Oregon*, USGS
- Conference programs for groups such as the Oregon State Beekeepers Association
- *Interpretive Center Plan for the Jackson Bottom Wetlands Preserve*

## Selected Research Publications

- *Environmental Management*: Channelization and levee construction in Illinois
- *Archiv für Hydrobiologie*: Pelletization of sediment by *Ptychoptera townesi* (Diptera: Ptychopteridae)
- *Hydrobiologia*: Mass loss and qualitative change in stream-incubated FPOM derived from leaves differing in rate of processing | The influence of substrate organic content on the growth of a stream chironomid

- *Freshwater Biology*: Resource utilization by the freshwater deposit feeder *Ptychoptera townesi* (Diptera: Ptychopteridae) | Handling of coarse and fine particulate organic matter by the aquatic insects *Paraleptophlebia gregalis* and *P. temporalis* (Ephemeroptera: Leptophlebiidae)

#### Selected Curriculum-Development Projects

- *Cascade Streamwatch: Curriculum Adaptation for the Sandy River Watershed at Wildwood and Three Creeks*, USDA Forest Service, Mount Hood National Forest
- *Oregon Field Guide Education Program, Extensions for Educators*, Oregon Public Broadcasting
- *The Oregon Story: Fishing | Logging | Ranching*, Education Guides to the Series, Oregon Public Broadcasting

#### Selected Publications for Educators

- *The American Biology Teacher*: Mitigating losses of wetland ecosystems: A context for evaluation
- *Science Scope*: Mastering the microscope
- *Science and Children* From Root to fruit: Botany for beginners
- *The Science Teacher*: Don't change that channel! Manipulating the course of our streams and rivers | Shedding light on watersheds: An operational and conceptual framework for analysis | Here's mud in your eye: Deposit feeders under the microscope | The dynamics of flowing water | Turning over a wet leaf
- *Biology Digest*: Biological communities: A concept in the making | Wetlands: Ecosystems at a crossroad | Honey bee: The life and times | Pacific salmon: Crisis and opportunity

#### Selected Teaching Experience

- Marylhurst University: Marine Biology
- Portland State University: Watersheds and Society | Ecology, Ecofeminism, and Environmental Ethics | In-service courses and workshops in the physical and environmental sciences
- University of Portland: Environmental Science | Short courses for educators
- University of Illinois: Environmental Science in Planning | Environmental Science Methods | Planning in a Watershed Context

#### Selected Professional Associations, Affiliations, and Certifications

- Member, National Science Writers Association
- Member, National Writers Union
- Member, Northwest Independent Editors Guild
- Member, Northwest Writers and Publishers Association
- Oregon Women Business Enterprise Certification
- Oregon Emerging Small Business Certification

#### Selected Clients

- Linden Press
- Feldenkrais-Zentrum, Heidelberg
- USGS Forest and Rangeland Ecosystem Science Center
- Forest Research Laboratory, College of Forestry, Oregon State University
- Oregon State Beekeepers Association
- USDA Forest Service, Mount Hood National Forest
- Oregon Public Broadcasting
- Tobacco-Free Coalition of Oregon
- Columbia River Inter-Tribal Fish Commission
- US Army Construction Engineering Research Laboratory