

**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, including website design

### Areas of Expertise

Meta Writing and Education Services, Portland OR [www.metawriting.com](http://www.metawriting.com)  
Position: Owner/Director—Woman-owned business focused on developing quality scientific and technical materials for both professional and general audiences

- Writing, editing, and page layout | preparing print-ready copy of nonfiction materials, with specialization in the sciences
- Managing projects with multiple authors from conception to publication in print and online
- Working in partnership with authors and researchers through the various phases of the editing/publishing process, on works that include technical books, theses, and dissertations, research articles, engineering reports, and memoirs
- Presenting science and technical concepts to general audiences | developing interdisciplinary and science curriculum and course materials
- 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 to adult learners and students in grades 6–12

### Selected Writing/Editing Projects

- “Freshwater Wetland Restoration,” Pacific Habitat Services
- Research papers for publication in professional journals | Theses and Dissertations
- *Restoring Salmon to the Columbia River Watershed: A Tribal Perspective*, Columbia River Inter-Tribal Fish Commission
- Starker Lectures, College of Forestry, Oregon State University
- *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
- *Honey Bee: The Sun Being*, Beargrass Press
- *The Bee Line*, Oregon State Beekeepers Association (since October 2005)
- *WAS Journal*, Western Apicultural Society (since March 2018)
- *Interpretive Center Plan for the Jackson Bottom Wetlands Preserve*
- *Managing for Biodiversity in Young Douglas-Fir Forests of Western Oregon*, USGS
- *Where the Huckleberries Grow | Even Seagulls Cry*, Linden Press
- Conference programs for groups such as District 7 Toastmasters, Oregon State Beekeepers Association, and the Western Apicultural Society

### 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 Research Publications

- *Environmental Management*: Channelization and levee construction in Illinois
- *Archiv für Hydrobiologie*: Pelletization of sediment by *Ptychoptera townesi* (Diptera: Ptychopteridae)
- *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)
- *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

### 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 Publications for Educators

- *The American Biology Teacher*: Mitigating losses of wetland ecosystems: A context for evaluation
- *Biology Digest*: Honey bee: The life and times | Biological communities: A concept in the making | Wetlands: Ecosystems at a crossroad | Pacific salmon: Crisis and opportunity
- *Science and Children*: From Root to fruit: Botany for beginners
- *Science Scope*: Mastering the microscope
- *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

### Selected Professional Associations & Certifications

- Member, American Association for the Advancement of Science
- Member, National Writers Union
- Member, Oregon Writers Colony
- Certification, Oregon Emerging Small Business
- Certification, Oregon Women Business Enterprise

### Selected Clients

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