

# Loren W. Walker

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121 Gulf Road  
Belchertown, MA 01007

loren@L2W.cc  
(413) 210-3782

## PROFILE:

Researcher, analyst and writer with 10+ years of scientific and technical communications experience. In 2004, authored a major report on the medical device industry in western New England. Also published in peer-reviewed journals and popular science periodicals.

Bioscience expertise. Graduate training in the biological sciences with emphasis on biochemistry, cell biology and molecular biology. Field and laboratory work included liaising with scientists, land managers and business professionals.

Combines the tenacity and persistence of a researcher with a writer's attention to style, tone, audience comprehension and readability. Work ethic characterized by thorough research and analysis, meticulous documentation, high-quality presentation and deadline dependability.

Consistently recognized by clients, supervisors and associates for ability to rapidly synthesize new material and achieve subject fluency.

## PROFESSIONAL EXPERIENCE:

**Science Writer** 10/04 – present. 2004 International Soils, Sediments and Water Conference. University of Massachusetts. Amherst, Massachusetts.

*Responsibilities include:* conducting the interviews and background research necessary to write a ~4,500 word newsletter showcasing the technical and scientific highlights of the conference.

**Technical Writer** 7/04 – present. Department of Energy Conservation & Load Management, Northeast Utilities System. New Britain, Connecticut.

*Responsibilities include:* writing technical manuals and regulatory agency reports; conducting debriefings of program administrators; analyzing energy usage and financial data; producing tables and charts from spreadsheet data; and producing comprehensive program process maps.

**Writer, Lead Researcher & Analyst** 12/03 – 6/04. I-91 Corridor Medical Device Industry Assessment Study. *Sponsored by:* Northeast Utilities System. Berlin, Connecticut; The Biomedical Engineering Alliance and Consortium (BEACON). Hartford, Connecticut; The MetroHartford Alliance. Hartford, Connecticut.

*Responsibilities included:* development of research and document plan; project coordination; conducting all aspects of subject research (70+ sources); analysis of industry data from national databases (DOL, FDA CDRH), production of tables, charts, figures and maps; interviewing experts from health care services, higher education and precision manufacturing industries; organization, authoring and formatting of camera-ready final report; and presentation of findings before an audience of 100+ leaders representing Hartford-Springfield area business, health care and higher education institutions.

**Scientific Consultant** 2/03 – 8/03. U.S. Forest Service Pacific Northwest Research Station. Corvallis, Oregon.

*Responsibilities included:* performing statistical analyses (using POPGENE population genetic analysis software) and producing publication-ready tables and figures based on isozyme

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electrophoresis data from rare *Cypripedium fasciculatum* (clustered lady's slipper orchid) plants collected from populations in the northwestern United States.

**Educational Guide** 2/02 – 12/02. Ethnobotanical Garden of the Santo Domingo Cultural Center. Oaxaca, Mexico.

*Responsibilities included:* developing a 90-minute walking tour lecture on the flora of the state with emphasis on ethnobotanical uses of native Oaxacan plants and leading the tour several times each week.

**Producer & Editor** 6/02 – 12/02. Monte Alban Archeological Site. Oaxaca, Mexico.

*Responsibilities included:* translation (Spanish to English), design, layout, text preparation and photography for a field guide to the flora of the archeological site based on a technical manuscript written by a botanist at Technological Institute of Oaxaca.

**Cell Biology Research Associate** 9/00 – 8/01. Exelixis Plant Sciences. Portland, Oregon.

Managed experiments directed toward developing transgenic, virus-resistant raspberries.

*Responsibilities included:* tissue culture; *Agrobacterium*-mediated genetic transformation of plants; gel electrophoresis; enzyme-linked immunosorbent assays; plant grafting; risk-assessment field trials; and genetic analysis of transformed plants.

**Biological Research Associate** 6/99 – 7/00. U.S. Forest Service Pacific Northwest Research Station. Corvallis, Oregon.

Performed extensive morphological and chemical analyses on *Hypericum perforatum* plants collected from wild populations in northern California, Oregon and Montana. Completed genetic characterization (using Randomly Amplified Polymorphic DNAs, "RAPDs" method) of a population of *Hypericum perforatum* classified by the Bureau of Land Management as a noxious weed infestation. Conducted research for the USFS publication, "Medicinal plants of the Pacific Northwest."

**Education Program Coordinator** Summer 1996 & 1997. Oregon Zoo. Portland, Oregon.

Designed and coordinated a summer science education program for over two hundred high school students, many of whom received school credit for their work.

**Biology Field Instructor** Spring & Fall 1996. Outdoor School Program of the Multnomah County Education Services District. Portland, Oregon.

Instructed and developed curriculum for a wildlife and fisheries biology 6-12 grade educational program.

### SELECTED PUBLICATIONS:

Walker, L. 2004. "The Medical Device Industry in Southern New England's I-91 Corridor." *The Connecticut Economy Quarterly Review*. 12(4):18.

Walker, L. 2004. "The Medical Device Industry in Southern New England's I-91 Corridor." Joseph D. Bronzino, ed. Published by Northeast Utilities System. June 2004. 123 p.  
<http://www.hartfordspringfield.com>

Walker, L. 2004. "Leading Laser Manufacturer Moves to Valley." Regional Technology Corporation On-Line. <http://rtacentral.com/?ss=28>

Walker, L. 2004. "New England's Medical Device Manufacturing Industry: Beyond Boston." *New England Developments*, Summer 2004 -- <http://www.nu.com/develop/newsletters.asp>

Walker, L. 2004. "Scientific Collaboration Grows in Western Massachusetts' Pioneer Valley." Regional Technology Corporation On-line. <http://rtacentral.com/?ss=114>. Also published by OneScience.com. <http://www.onescience.com/CareerAdvice.asp?id=28>

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Walker, L. 2003. "Tomorrow's Bioscience Industry Depends on Today's Students." *Mass High Tech: The Journal of New England Technology*.

[http://www.masshightech.com/displayarticledetail.asp?art\\_id=64174](http://www.masshightech.com/displayarticledetail.asp?art_id=64174)

Walker, L. 2003. "Antimicrobial Alternatives." Regional Technology Corporation On-line.

<http://rtacentral.com/?ss=112>.

Walker, L. 2003. "The New *Golden Age* of Vaccines is *Green*." OneScience.com

<http://www.onscience.com/ScientificArticle.asp?id=5>

Sirvent, T., Walker, L., Vance, N., Gibson, D. 2002. "Variation in hypericins from wild populations of *Hypericum perforatum* L. in the Pacific Northwest." *Economic Botany*. 56(1): 41-48.

Walker, L., Sirvent, T., Gibson, D., Vance, N. 2001. "Regional differences in hypericin and pseudohypericin concentrations and five morphological traits among *Hypericum perforatum* L. plants in northwestern United States." *Canadian Journal of Botany*. 79(10): 1248-1255.

**Writing samples available on-line: [www.L2W.cc/pubs/](http://www.L2W.cc/pubs/)**

### EDUCATION:

**M.S. Biology** (2000) Portland State University. Portland, Oregon

**B.S. Biology** (1995) Roanoke College. Salem, Virginia

### SELECTED INTERNET PROJECTS:

<http://www.oaxaca.host.sk> – editing, design, and translation

<http://www.prodigyweb.net.mx/centeotlac> – editing, design and translation

<http://www.tapeteschavez.host.sk> – editing and design

### ADDITIONAL SKILLS & ABILITIES:

- Advanced computer literacy (MS Office applications, LINUX)
- Data analysis & presentation (StatGraphics, MEGA, POPGENE, Excel, Power Point)
- Internet publishing (HTML, Dreamweaver, PHP, SQL, Flash)
- Photography and digital imagery (Photoshop, Quark, Fireworks)
- Spanish fluency
- SCUBA diver
- Percussionist
- Outdoor sports enthusiast

### MEMBERSHIP:

- Society for Technical Communication

### REFERENCES:

Furnished upon request