

Curriculum vitae

Sigrun N. Gadwa, MS, PWS
Ecologist/Botanist/Wetland Scientist

EDUCATION:

M.S., Plant Ecology, University of Connecticut, Storrs, CT, 1997.

B.A., Biology, Brown University, Providence, R.I., 1975.

Continuing Education

16 credit hours in Soil Science and Geology, 1993 – 2001

University of Connecticut, Storrs

Graduate course in Phycology, Pan American University, Brownsville, Texas, 1982

Arboriculture course, Quinnipiac College, Hamden, CT, 1984

Five Plant Pathology courses, Cook College, Rutgers University, New Brunswick, N. J. 1978 - 1979

CT DEEP training workshop Series: Rapid Bioassessment

Techniques, & Stream Ecology Workshops. Bethany. 1996 & 7.

Riparian Buffer Function, Performance & Limitations. Urban Riparian Buffers Conference & Technical Training Session. April 1999.

Freshwater Mussel Workshop. New Hampshire Department of Environmental Conservation. August 2004.

Sedimentation and Erosion Control Review Session. USDA Natural Resource Conservation Service and CPESC (Certified Professionals in Erosion Control), Concord, NH, September, 2001.

Moss Identification & Ecology, 1-week course; Eagle Hill Institute. 6-19.

CERTIFICATIONS:

Registered Soil Scientist,

Society of Soil Scientists of Southern New England

Certified Professional Wetland Scientist

Society of Wetland Scientists

Organic Land Care Professional. NOFA (Northeast Organic Farming Association)

EXPERIENCE:

As a plant ecologist Ms. Gadwa inventories, assesses, photographs, and monitors ecological communities, often in support of open space acquisition initiatives, including teaching local citizens & students about the resources. She plans & guides control programs for invasive plants, and searches for listed plant and turtle populations and assesses their habitat. Botanical specialties include vascular plant identification and winter botany. As a wetland scientist, she is experienced with delineation of wetland and watercourse jurisdictional boundaries (CT and U.S. Army Corps of Engineers), planning wetland mitigation and restoration, third party reviews of development projects, vernal pools studies, water quality testing and data analysis, and in-stream bio-assessments.



Curriculum vitae: (continued)

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EMPLOYMENT HISTORY:

(continued)

1987 to 1991

Univ. of Connecticut Department of Civil Engineering, Storrs, CT
Wetlands Researcher

Part of an interdisciplinary team, studying man-made replication wetlands and natural reference wetlands. Took part in research design; collected vegetation, soils, & hydrologic data; literature searches; data analysis. Research used for wetlands mitigation-related manual for the Connecticut Department of Transportation and for master's thesis.

1974 to 1975

Brown University, Providence, RI
Teaching Assistant, Plant Systematics

1968 to 1975

Long Island Nature Conservancy, Stewardship Volunteer

Nature trail development & maintenance, botanical inventories, wrote preserve descriptions & self-guided nature trail brochures.

Carya E.S. clients have included Berlin Land Trust, Avalonia Land Conservancy, Groton Open Space Association, Cardinal Engineering, Joshua's Trust, Wright-Pierce, RACE Coastal Engineering, and Catherine Pratt (landlord of CT River shoreline property)

PROFESSIONAL AFFILIATIONS:

Connecticut Botanical Society (Board of Directors)
Connecticut Invasive Plant Working Group (CIPWG)
Connecticut Association of Wetland Scientists
Society of Soil Scientists of Southern New England
Connecticut Ornithological Society
Ecological Society of America
Native Plant Trust (PCV - Plant Conservation Volunteer Program)

PUBLICATIONS:

Lefor, M.W. Barklay, J.S. Cooke, R.S. Craig, S.N. Gadwa, T.S. Murray,
April 1990. *Annotated Bibliography for Wetland Mitigation*.

August 1990. *Patterns of Herb Layer Species Association*. In Lefor, M.W. et al
Wetland Mitigation: Interim Report No. CT-RD-JHR-90-8, The Transportation
Institute, Storrs, Conn. 97 pp.

1994. *Forests*. In Chesnow et al. *Trails*. The Cheshire Land Trust and the
Cheshire Environment Commission, Cheshire, CT 96 pp.

Curriculum vitae: (continued)

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PUBLICATIONS, cont. :

Fall 2005. S. N. Gadwa. *Preliminary Assessment of the Habitat & Historic Resources in North Cheshire, West of Route 10 & Recommended Protection Measures*. The Cheshire Land Trust & Habitat Workgroup of the Watershed Partnership.

October 2011 S. N. Gadwa & G.T. Logan. *The Scientific Basis for Wetland & Watercourse Buffer Zones*. 23 pp. White Paper. Rema Ecological Services, LLC.

Spring 2014. Sigrun N. Gadwa. *The Invasive Threat to Connecticut's Upland Critical Habitats*. 3pp. Connecticut Botanical Society Newsletter 41: 1.

Spring 2020. Sigrun N. Gadwa. *Gabbro Habitats in Southeastern Connecticut*. Connecticut Botanical Society Newsletter 47: 1.

WORKSHOPS & CONFERENCES

SA Mid-Atlantic Chapter Symposium, Blacksburg Virginia
Lessons for Mitigation Design from Shoreline Seedling Colonization (*selected*).
Patterns April 12-14, 2012. (*Poster presentation based on MS thesis*)

New England Invasive Plant Summit, Framingham Massachusetts: Wetlands permitting – a potentially powerful tool to control invasive plants. September 19-20, 2003. (*Poster Presentation*).

Environmentally Sensitive Development along the Ten Mile River. Riverside Landscaping Conference. The Rivers Alliance of Connecticut. June 1998.
(*Guest Lecturer*)

Water Quality in the Quinnipiac River: A Symposium on the Impact of Non-Point Source Pollution in the Quinnipiac River Watershed. November 1998.
(*Presenter*)

October, 2014. Documenting and Conserving Eastern Box Turtles in Central Connecticut: 19 years of Citizen Monitoring. Berlin Land Trust and Nature Center. Evening Membership Program. (*Guest Lecturer*)

2011 to 2019. For CT Botanical Society, have led 1-3 guided botany field trips and/or field botany workshops each year.

October 2016 Sigrun Gadwa, MS & Todd Mervosch PHD. Connecticut Invasive Plant Working Group (CIPWG) Symposium, UConn College of Agriculture, Health, & Natural Resources. *Artemisia vulgaris* (Mugwort): *Overlooked Infiltrator of Meadow Habitats*. (*Poster Presentation*).