

Ronald J. Reuter

Department of Forest Resources
Oregon State University - Cascades
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EDUCATION

University of Minnesota

Degree: Ph.D. in Soil Science, Minor in Water Resources, July 1999
Dissertation: Spatial and Temporal Relations between Soil Processes, Morphology, and Hydrology in Minnesota Landscapes

University of Idaho

Degree: MS in Soil Science, December 1995
Thesis: Transport and Flow Characteristics of Perched Water in Loess-Derived Soils

Penn State University

Degree: BS in Environmental Resource Management, December 1992

PROFESSIONAL INTERESTS

Landscape-scale ecosystem processes and modeling; wetlands; geomorphology; pedogenesis; water resources

WORK EXPERIENCE

Assistant Professor, Natural Resources

January 2003 – Present

Oregon State University, Bend, Oregon

- Development and delivery of course supporting the Natural Resources degree program, for both on-campus and distance delivery
- Assist with the development of the Distance Natural Resources Program
- Develop a research program in Landscape Ecology, Soil Science, Distance Education technology

Lecturer

September 2000 – December 2002

Humboldt State University, Arcata, California

- Instruction of general soils (Soils 260), including laboratory techniques and methods
- Laboratory instruction for soil genesis and classification (Soils360)
- Instruction of wetland soils (Soils 363)
- Laboratory instruction of global positioning and map analysis (NRPI 270)
- Development of departmental webpage (www.humboldt.edu/~rrws)
- Advisor to the HSU Soil Science Club

Resource Assessment Project Manager

March 2002 - December 2002

California State Parks (C/O Humboldt State University Foundation)

- Coordinate conditional ecological assessment of state parks in Northern California
- Communicate progress with state parks regional ecologist
- Manage \$70,000 project budget

Landscape Ecologist / Soil Scientist

September 2000 – December 2002

Stillwater Sciences, Arcata/Berkeley, California

- Provide project management on basin studies; including management plans, TMDLs, wetland and stream restoration, and water quality evaluation
- Assist in research proposal development and research
- Provide field support with respect to soils and wetlands
- Serve as GIS analyst/manager/technician for projects

Landscape Ecologist (Post-doc)**August 1999 to August 2000**

National Exposure Research Laboratory, U.S. EPA, Research Triangle Park, NC

- Assisted in the development and coordination of the Regional Vulnerability Assessment program (ReVA, www.epa.gov/rev), including technical reviews of program documents, representation of ReVA at local, regional, and national meetings and workshops involving regional ecosystem management and decision making
- Developed independent research to supplement ReVA: dynamics of manganese distribution in coastal plain landscapes and probability distribution of potential wetland sites in the Mid-Atlantic Region
- Served as expert in Soil Science for the Landscape Characterization Branch / Environmental Science Division of EPA's Office of Research and Development

Graduate Research Assistant**January 1996 to July 1999**

University of Minnesota, St. Paul

- Supervised research activities for Minnesota Wet Soil Monitoring Project
 - duties: collection of landscape data including water table distribution and hydraulic gradients, soil redox, and temperature; design of automated data retrieval system; construction of tensiometers, redox electrodes, and transducer circuits for use with automated data retrieval system
- Compiled, analyzed, presented, and published data
- Developed a GIS-based terrain model to predict spatial distribution of hydric soils

Landscape Evaluator**Summer 1998**

Emmons & Olivier Resources, Lake Elmo, Minnesota

- Performed soil mapping and geomorphic interpretation to aid in defining the subsurface stratigraphy of existing and proposed infiltration basins

Wetland Soils Specialist**Summer 1997**

BRW, Inc., Minneapolis, Minnesota

- Wetland-soil specialist for delineation team on a 60 mile pipeline segment in N Wisconsin and Michigan
- Compilation of wetland delineation reports for Twin Cities metro area

Lab Instructor**Fall 1995**

University of Idaho, Moscow

- Soils 200 - General Soils
 - taught lab section involving soil chemical, physical, and morphological properties
 - assisted in exam preparation and graded laboratory assignments and exams

Permitter**May 1992 to July 1993**

AD+SOIL, Inc., Kennett Square, Pennsylvania

- Compiled permit applications for agricultural utilization of sewage sludge and organic amendments in the states of Maryland, Pennsylvania, Delaware, and Virginia: included soil sampling, application rate calculation, and map production

Publications

- Reuter, R.J. and J.C. Bell. 2003. Hillslope hydrology and soil morphology for a wetland basin in south-central Minnesota. *Soil Sci. Soc. Amer. Jour.* 67: 365-372.
- Reuter, R.J. and J.C. Bell. 2001. Soils and Hydrology of a Wet-Sandy Catena in East-Central Minnesota. *Soil Sci. Soc. Am. Jour.* 65:1559-1569.
- Reuter, R.J., P.A. McDaniel, J.E. Hammel, and A.L. Falen. 1998. Solute transport in seasonal perched water tables in loess-derived soils. *Soil Sci. Soc. Am. Jour.* 62:977-983.
- McDaniel, P.A., R.W. Gabehart, A.L. Falen, J.E. Hammel and R.J. Reuter. 2001. Perched Water Tables on Argixeroll and Fragixeralf Hillslopes. *Soil Sci. Soc. Am. Jour.* 65: 805-810.
- Smith, E.R., R. V. O'Neill, J.D. Wickham, K.B., Jones, L. Jackson, J.V. Kilaru, and R. Reuter. 2000. The USEPA's Regional Vulnerability Assessment Program: A Research Strategy for 2001- 2006. US Environmental Protection Agency, Office of Research and Development, Research Triangle Park, NC.

Presentations / Abstracts

- Reuter, R.J., C.W. Zanner, and M.J. Vepraskas. 2000. Effects of catastrophic flooding on hydric soils of eastern North Carolina. Poster presentation - Amer. Soc. Agron. Annual Meeting, Minneapolis. November 2000.
- Lindbo, D.L., C.W. Zanner, R.J. Reuter, M.J. Vepraskas, F.E. Rhoton. 2000. Distribution of Hydric Soil Indicators on the Tar River Flood Plain. Poster presentation - Amer. Soc. Agron. Annual Meeting, Minneapolis. November 2000.
- Reuter, R.J., C.W. Zanner, and M.J. Vepraskas. 2000. Effects of catastrophic flooding on hydric soils of eastern North Carolina. Oral presentation - Annual North Carolina Water Resources Research Conference, Raleigh. March 2000.
- Reuter, R.J. and J.C. Bell. 1999. Modeling the distribution of hydric soils using terrain attributes. Poster presentation - Amer. Soc. Agron. Annual Meeting, Salt Lake City. November 1999.
- Reuter, R.J. and J.C. Bell. 1998. Evaluating hydric soils in northwestern Minnesota using a Soil Temperature Index. Oral presentation - Amer. Soc. Agron. Annual Meeting, Baltimore. October 1998.
- Reuter, R.J., W.C. Lynn, J.C. Bell. 1997. Redox-derived spodic chemistry in a wet- sandy catena. Poster presentation - Amer. Soc. Agron. Annual Meeting, Anaheim. October 1997.
- Reuter, R.J. 1997. Summary of the Minnesota Wet Soils Monitoring Project. Oral presentation - Meeting of the National Technical Committee on Hydric Soils, Corvallis. July, 1997.
- Reuter, R.J., J.C. Bell, and J.A. Thompson. 1996. Soil hydrology and morphology in a hydric soil landscape in west-central Minnesota. Poster presentation - Amer. Soc. Agron. Annual Meeting, Indianapolis. November 1996.
- Reuter, R.J., P.A. McDaniel, J.E. Hammel, and A.L. Falen. 1995. Flow characteristics of perched water in loess-derived soilscapes. Oral Presentation - Amer. Soc. Agron. Annual Meeting, St. Louis. November 1995.
- Reuter, R.J., P.A. McDaniel, and R.W. Gabehart. 1994. Perched water tables in xeric soils of the eastern Palouse region. Poster presentation - Amer. Soc. Agron. Annual Meeting, Seattle. November 1996
- Reuter, R.J. and P.A. McDaniel. 1995. Near surface aquifers in soils of the Palouse region. Poster presentation (1st place poster) - Palouse Water Summit, Moscow, ID. March 1995.

Grants

- \$17,000 - Linking PDA and GPS Technology for Assessment of Field Studies in Distance Education. 2003. Northwest Academic Computing Consortium/OSU Resource Technology Fund.
- \$1250 - Development of Permanent Field Instruction Soil Pits. 2002 Humboldt State University Foundation Small Grant Competition.

Memberships and Activities

- Soil Science Society of America
- ARCPACS Associate Professional Soil Scientist: #03516
- California Forest Soils Council
- Reviewer - Soil Science Society of America Journal; Soil Science; Geoderma; American Journal for Undergraduate Research; The Prairie Naturalist