

**Vita**  
**Linda R. Barrett**

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**Education**

Ph.D., 1995, Geography; Michigan State University;  
Dissertation: A Stump Prairie Landscape in Northern Michigan: Soils, Forest  
Vegetation, Logging, and Fire.

M.A., 1991, Geography; Michigan State University;  
Thesis: A Chronosequence of Soils on Lake Terraces in Northern Michigan.

B.A., 1981, with High Honor, Linguistics, Honors College, Michigan State University.

**Professional Experience**

Associate Professor, Department of Geography and Planning, University of Akron (Fall  
Semester 2001 to present).

Assistant Professor, Department of Geography and Planning, University of Akron (Fall  
Semester 1995 to 2001).

Teaching Assistant, Department of Geography, Michigan State University (1993 and 1994).  
Instructor of record for Geography 206, Physical Geography.

Research Assistant, Center for Remote Sensing, Michigan State University (1989-1991, 1993-  
1994). Duties included GIS analysis, imagery interpretation, and field checking.

Research Assistant, Department of Geography, Michigan State University (1992, 1995). Duties  
included imagery interpretation and GIS analysis, and laboratory analysis of soil samples.

Teaching Assistant, Department of Geography, Michigan State University (1991-1993).  
Physical Geography Laboratory, Introduction to GIS, and Economic Geography classes.

Community Development Intern, Honduras, for the Christian Reformed World Relief  
Committee, 2850 Kalamazoo Ave., Grand Rapids, Michigan 49560-0600 (1981-1983).  
Duties included teaching reading skills to adults in rural Honduras.

## Publications

- Barrett, Linda. 2008. Soils and vegetation. In Artimus Keiffer, ed., *The Geography of Ohio*. Kent, Ohio: Kent State University Press. pp. 24-38.
- Barrett, Linda, and Artimus Keiffer. 2008. The geographical setting. In Artimus Keiffer, ed., *The Geography of Ohio*. Kent, Ohio: Kent State University Press. pp. 1-11.
- Barrett, L.R., T. Matney, and L. E. Park. 2004. Teaching archaeogeophysical survey and mapping any time of the year: an interdisciplinary course. *Journal of Geoscience Education* 52:236-244.
- Barrett, L.R. 2002. Spectrophotometric color measurement in situ in well drained sandy soils. *Geoderma* 108:49-77.
- Barrett, L. R. 2001. A strand plain soil development sequence in northern Michigan. *Catena* 44:163-186.
- Barrett, L. R. 1999. Particulars in context: maintaining a balance in soil geography. *Annals of the Association of American Geographers* 89:707-713.
- Barrett, L. R. 1998. Origin and history of stump prairies in northern Michigan: forest composition and logging practices. *Great Lakes Geographer* 5:105-123.
- Barrett, L. R., and R. J. Schaetzl. 1998. Regressive pedogenesis following a century of deforestation: evidence for depodzolization. *Soil Science* 163:482-497.
- Barrett, L. R. 1997. Podzolization under forest and stump prairie vegetation in northern Michigan. *Geoderma* 78:37-58.
- Barrett, L. R., J. Liebens, D. G. Brown, R. J. Schaetzl, P. Zuwerink, T. W. Cate, and D. S. Nolan. 1995. Relationships between soils and presettlement forests in Baraga County, Michigan. *American Midland Naturalist* 134:264-285.
- Schaetzl, R. J., L. R. Barrett, and J. A. Winkler. 1994. Choosing models for soil chronofunctions and fitting them to data. *European Journal of Soil Science* 45:219-232.
- Barrett, L. R., and R. J. Schaetzl. 1993. Soil development and spatial variability on geomorphic surfaces of different age. *Physical Geography* 14:39-55.
- Barrett, L. R., and R. J. Schaetzl. 1992. An examination of podzolization near Lake Michigan using chronofunctions. *Canadian Journal of Soil Science* 72:527-541.
- Lusch, D. P., C. P. Rader, L. R. Barrett, and N. K. Rader. 1992. Aquifer Vulnerability to Surface Contamination in Michigan. 1:1,500,000 scale map. Michigan Department of Natural Resources, Office of Water Resources, Lansing, Michigan.

Barrett, L. R., and D. P. Lusch. 1991. Assessing ephemeral erosion using airborne CIR videography. United States Department of Agriculture--Soil Conservation Service (Michigan), Report #40-SD21-0-136. 45 pp.

Barrett, L. R., and D. P. Lusch. 1991. Assessing crop residue using airborne CIR videography. United States Department of Agriculture--Soil Conservation Service (Michigan), Report #40-SD21-0-135. 34 pp.

### **Grant Proposals Funded**

Barrett, Linda R. 2001. Ohio Board of Regents Individual Research Challenge Award, matching funds for CAREER: Spatial Aspects of Pedogenesis and Soil Organic Carbon in the Great Lakes Region (NSF:BCS-9875015). Funding period: May 1, 2001 - May 31, 2002. \$20,000.

Park, L. E., L. R. Barrett, and T. Matney. 2000. Subsurface Archaeogeophysical Survey and Mapping Curriculum and Laboratory Improvement. National Science Foundation: Course, Curriculum, and Laboratory Improvement (CCLI) Adaptation and Implementation. Funding period: February 1, 2001 - July 31, 2002. \$61,997.

Barrett, Linda R. 1999. CAREER: Spatial Aspects of Pedogenesis and Soil Organic Carbon in the Great Lakes Region. National Science Foundation. Funding period: June 1, 1999 - May 31, 2003. Year Three (June 2001 - May 2002): \$70,469. Cumulative Budget: \$233,858.

Barrett, Linda R. 1999. Forest-Site Relationships in the Lake Plains of Northwestern Ohio Before European Settlement. Summer Fellowship, Research (Faculty Projects) Committee, University of Akron. Funding period: June 1 - August 31, 1999. \$8,000.

Barrett, Linda R. 1998. POWRE: Using Soil Profile Spectral Reflectance Patterns in a Field-Based Index of Soil Development. National Science Foundation. Funding period: July 1, 1998 - December 31, 1999. \$49,900.

Barrett, Linda R. 1997. Develop a Series of Web-Based Exercises to Complement Intro to Geography and Physical & Environmental Geography. Teaching Excellence Grant, University of Akron. Funding Period: June - August 1997. \$5,000.

Barrett, Linda R. 1996. A Soil Development Sequence on Northern Michigan Beach Ridges. Research (Faculty Projects) Committee Grant, University of Akron. Funding period: November 1, 1996 - January 31, 1998. \$3,491.

Barrett, Linda R. 1995. *In Situ* Examination of Soil Forming Processes under Forest and Stump Prairie Vegetation in Northern Michigan. Research (Faculty Projects) Committee Grant, University of Akron. Funding period: November 3, 1995 - January 31, 1997. \$3,500.

Schaetzl, R. J., and L. R. Barrett. 1994. Doctoral Dissertation Research: Human Disturbance and Site Factors Influencing Spatial Patterns of Forest Regeneration. National Science Foundation. Funding period: May 1, 1994 - April 30, 1995. \$8,000.

Barrett, Linda R. 1994. Human Disturbance and Site Factors Influencing Spatial Patterns of Forest Regeneration. Association of American Geographers Dissertation Research Grant, Starkey Fund: \$200.

### **Presentations and Posters**

A Comparison of Presettlement and Present Day Forests in Paulding County, Ohio. Presented at the annual meeting of the Association of American Geographers, Washington, D.C., April 14-18, 2010. Single-authored.

Land Capability, Agriculture, and Forested Land Area in the Midwestern United States, 1850 to 2000. Poster presentation, annual meeting of the Association of American Geographers, Las Vegas, Nevada, March 22-27, 2009. Single-authored.

Dot Maps of Soil Properties Using U.S. General Soil Map (STATSGO) Data. Poster presentation, annual meeting of the Association of American Geographers, Boston, Massachusetts, April 15-19, 2008. Single-authored.

Tracing Spatial Patterns of Forest Cover in Northeastern Ohio Across Two Centuries: 1800 – 2000. Presented at the annual meeting of the Association of American Geographers, San Francisco, California, April 17-21, 2007. Single-authored.

Reconstructing Forest-Site Relationships in the Lake Plains of Northwestern Ohio. Presented at the annual meeting of the Association of American Geographers, Chicago, Illinois, March 7-11, 2006. Single-authored.

Mapping Change in Forested Land Cover: Ohio, 1800-2000. Presented at the annual meeting of the Association of American Geographers, Denver, Colorado, April 5-9, 2005. Single-authored.

Strategies and Interdisciplinary Cooperation in a Subsurface Archaeogeophysical Survey and Mapping Course. Presented at the annual meeting of the Association of American Geographers, March 16-20, 2004. Authors: Linda R. Barrett, Lisa E. Park, and Timothy Matney.

Soil Development Processes and the Soil Solution on Sandy Substrates in Northern Michigan, USA. Poster presentation at the annual meeting of the American Society of Agronomy/Soil Science Society of America, Denver, Colorado, November 2-6, 2003. Single-authored.

Podzolization Rates in Northern Michigan: A Comparison of Three Beach Ridge Chronosequences. Poster presentation at the annual meeting of the American Society of

- Agronomy/Soil Science Society of America, Indianapolis, Indiana, November 10-14, 2002. Single-authored.
- New Methods and Learning Strategies: A Subsurface Archaeogeophysical Survey and Mapping Course. Presentation and the annual meeting of the Geological Society of America, Denver, Colorado, October 27 – 30, 2002. Authors: Lisa E. Park, Timothy Matney, and Linda R. Barrett
- Instructional Use of Web-Delivered Interactive Maps: A Physical Geography Virtual Field Trip. Presentation at the annual meeting of the Association of American Geographers, New York, New York, February 27 - March 3, 2001. Single-authored.
- Application of Profile In Situ Spectrophotometric Color Measurements to a Numerical Soil Development Index. Presentation at the annual meeting of the Association of American Geographers, Pittsburgh, Pennsylvania, April 4-8, 2000. Single-authored.
- Spectrophotometric Measurement of Soil Color and Strength of Soil Development. Poster presentation at the annual meeting of the American Society of Agronomy/Soil Science Society of America, Salt Lake City, Utah, October 31-November 4, 1999. Single-authored.
- Field trip--A Hike through Mohican State Park. Field trip leader at the annual meeting of the East Lakes Division, Association of American Geographers, Loudonville, Ohio, November 5-6, 1999.
- Characterizing Spodosol Development Using Soil Profile Spectral Reflectance Patterns. Poster presentation at the annual meeting of the Association of American Geographers, Honolulu, Hawaii, March 23-27, 1999. Single-authored.
- Using a Field-Portable Spectrophotometer to Measure Spodosol Soil Color. Presented at the annual meeting of the East Lakes Division, Association of American Geographers, Columbus, Ohio, October 30-31, 1998. Single-authored.
- Podzolization in a Beach Ridge Chronosequence of Northern Michigan. Poster presentation at the annual meeting of the American Society of Agronomy/Soil Science Society of America, Baltimore, Maryland, October 18-22, 1998. Single-authored.
- Soils on an Age Sequence of Beach Ridges in Northern Michigan. Presented at the annual meeting of the Association of American Geographers, Boston, Massachusetts, March 25-29, 1998. Single-authored.
- Stump Prairie Vegetation and Podzolization Processes: Soil Mineralogy. Poster presentation at the annual meeting of the American Society of Agronomy/Soil Science Society of America, Anaheim, California, October 26-30, 1997. Single-authored.
- Soils on an Age Sequence of Beach Ridges in Northern Michigan: Field Observations. Presented at the annual meeting of the East Lakes Division, Association of American Geographers, East Lansing, Michigan, October 17-18, 1997. Single-authored.

Vegetation and Soil Development Processes in a Stump Prairie of Northern Michigan. Presented at the 93<sup>rd</sup> annual meeting of the Association of American Geographers, Fort Worth, Texas, April 1-5, 1997. Single-authored.

Panelist in session, "Clusters of the Virtual Geography Department Project," 93<sup>rd</sup> annual meeting of the Association of American Geographers, Fort Worth, Texas, April 1-5, 1997.

Do Spodic Horizons Degrade after Forest Vegetation is Removed? Poster presentation at the annual meeting of the American Society of Agronomy/Soil Science Society of America, Indianapolis, Indiana, November 3-8, 1996. Single-authored.

Logging and Fires Related to Forest Regeneration on a Stump Prairie in Northern Michigan. Presented at the 92<sup>nd</sup> annual meeting of the Association of American Geographers, Charlotte, North Carolina, April 9-13, 1996. Single-authored.

Soil Development and Forest Regeneration Patterns of a Stump Prairie in Northern Michigan. Poster presentation at the annual meeting of the American Society of Agronomy, St. Louis, Missouri, October 29-November 2, 1995. With R. J. Schaetzl as co-author.

Soil Development and Other Site Factors Related to Spatial Patterns of Forest Regeneration. Presented at the 91<sup>st</sup> annual meeting of the Association of American Geographers, Chicago, Illinois, March 14-18, 1995. Single-authored.

Error and Uncertainty in the Integration of Digital Soil Survey Data and General Land Office Survey Notes. Poster presentation at the annual meeting of the American Society of Agronomy/Soil Science Society of America, Cincinnati, Ohio, November 7-12, 1993. With J. Liebens and D. G. Brown as co-authors.

Assessing Ephemeral Gully Erosion Using Airborne CIR Videography. Presented at 27th International Geographical Congress, Washington, D.C., 1992. With David P. Lusch as second author.

Soil Spatial Variability on an Age Sequence of Four Geomorphic Surfaces in Michigan. Presented at the annual meeting of the Michigan Academy of Science, Arts and Letters, Mount Pleasant, MI, 1992. With R. J. Schaetzl as second author.

A Chronosequence of Soils on Lake Terraces in Northern Michigan. Presented at the 87th Annual Meeting, Association of American Geographers, Toronto, Ontario, Canada, 1990. Single-authored.

### **Awards and Scholarships**

Participant in the Academic Leadership Forum, University of Akron, 2007-2008.

Scholarship of Teaching, Assessment, and Learning (SoTAL) Fellow, University of Akron Institute for Teaching and Learning, 2002-2003. Fellows met once a week for entire academic year to learn and discuss issues relating to the scholarship of teaching and learning.

Nominated for Presidential Early Career Awards for Scientists and Engineers (PECASE) by the Geography and Regional Science Program of the National Science Foundation, 1999.  
Chairs' Citation: Notable Achievement in the area of Early Career, Buchtel College of Arts and Sciences, University of Akron, 1999.  
Grant, National Science Foundation Grant Program, to attend 27th International Geographical Congress, Washington, D.C., included all expenses and \$1500 towards a scientific field trip, 1992.  
Graduate Office Fellowship, Michigan State University, 1989, 1992, 1994, 1995 (five times).  
Mildred Erickson Scholarship for Continuing Education, 1986.  
Mortar Board, Sphinx chapter of Michigan State University, 1980; chapter treasurer, 1980-1981.  
Phi Beta Kappa, 1980.  
Phi Kappa Phi, 1980.

### **Participation in Virtual Geography Department Project**

Web-based curriculum module, "Deep Lock Quarry Metro Park: A Physical Geography Virtual Field Trip" (<http://www.uakron.edu/geography/lrb/trips/dquarry>), submitted to the Virtual Geography Department's Virtual Field Trip Working Group for peer review and evaluation, 1997.

Participant in the second workshop for the Virtual Geography Department Project, June 1-7, 1997, Austin, Texas. An intensive seven-day session on planning and developing new instructional materials, cultivating Web authoring and design skills, building interdepartmental collaborations, and addressing pedagogical strategies and principles of effective instructional design.

Participant in the first workshop for the Virtual Geography Department Project, June 2-15, 1996, Austin, Texas. Included discussion and training in incorporating the World Wide Web in classroom instruction, design and programming of Web pages, and planning for the direction of the Virtual Geography Department Project.

### **Professional Affiliations**

American Scientific Affiliation  
American Society for Photogrammetry and Remote Sensing  
Association of American Geographers  
Association of Ohio Pedologists  
Soil Science Society of America

### **Invited Presentations**

- How fast do soils form? A comparison of three northern Michigan chronosequences.  
Presentation to Department of Geography, Northern Illinois University, October 24, 2003.
- Using ArcGIS, Workshop presentation for Stark County Health Department, November 22, 2002.
- Global warming. Presentation for Earth Week 2001 for the student organization EPIC, University of Akron, April 19, 2001.
- Global warming. Presentation to League of Women Voters Akron Area, Akron, Ohio, September 21, 2000.
- A stump prairie in northern Michigan: Nineteenth century forest and land value patterns.  
Department of Geography, Kent State University, March 6, 1998.
- Soils and soil development on a stump prairie in northern Michigan. Presented to the Department of Geology, University of Akron, December 3, 1996.
- A stump prairie in northern Michigan: Pre-logging forest patterns. Presented to the Department of Biology, University of Akron, April 24, 1996.
- Stump prairies in Michigan: Soils, forest vegetation, logging, and fire. Presented to the Geography and Planning Organization, University of Akron, September 20, 1995.

### **Service Activities**

- Grievance and Contract Administration Officer, Akron-AAUP, December 2005 - May 2010.
- Faculty Senate, Buchtel College at-large representative, September 2009 - present.
- Member of Academic Policies Committee, September 2009 - present.
- Member of Faculty Research Committee, September 2008 - present. (Committee evaluates 50 to 80 grant proposals submitted each year.)
- Member of Negotiating Team, Akron-AAUP, 2003- 2005 and May - December 2009.
- Member of University of Akron New Diversity Council, 2007-present.
- Member of New Diversity Council subcommittee: Focus on Faculty Diverse Hiring, 2007-present.

Chair of Search Committee, Faculty Tenure Track position, Department of Geography and Planning, University of Akron, 2007-2008.

Member of Search Committee, Faculty Tenure Track position, Department of Geography and Planning, University of Akron, 2007- 2008.

Member of Search Committee, Chair position, Department of Classical Studies, Anthropology, and Archaeology, 2006.

Member of Faculty Senate Ad Hoc Decision Making Task Force, Summer 2005.

Chair of Search Committee, Faculty Tenure Track position, Department of Geography and Planning, University of Akron, 2006.

Chair of Search Committee, Faculty Tenure Track position, Department of Geography and Planning, University of Akron, 2005.

Member of review panel for National Science Foundation, Course Curriculum, and Laboratory Improvement (CCLI) Phase 1 program, July 2006. Service on this panel involved writing reviews of approximately 10 grant proposals in preparation for the panel meeting, and participating in the recommendations for funding decisions for about 30 proposals.

Member of review panel for National Science Foundation, Geography and Regional Science Division, Doctoral Dissertation Research Improvement grants. The panel met four times: April and December of 2003, and April and December of 2004. Service on this panel involves writing reviews of approximately 15 grant proposals in preparation for each panel meeting, and participating in the recommendations for funding decisions for about 50 - 80 proposals each round.

Chair, Retention, Promotion, and Tenure committee, Department of Geography and Planning, 2002 and 2003.

Member of Retention and Promotion committee for Dr. Timothy Matney, Department of Classical Studies, Anthropology, and Archaeology, 2002 and 2003.

Member of Retention committee for John Reeves, Department of Classical Studies, Anthropology, and Archaeology, University of Akron, Fall 2008.

Member of Search Committee, Classical Studies Instructor position, Department of Classical Studies, Anthropology, and Archaeology, Summer - Fall 2003.

Faculty Senate, Buchtel College At-Large Representative, 2001 - 2007.

Member of the Faculty Senate Curriculum Review Committee, 2001 - 2004.

Member of Faculty Senate Library Committee, 2004 - 2007.

Member of departmental subcommittee to draft new Retention, Tenure, and Promotion guidelines, Fall 2001.

Member of Search Committee, Physical Anthropology Instructor position, Department of Classical Studies, Anthropology, and Archaeology, Spring 2001.

Member of Chair's Advisory Committee, Department of Classical Studies, Anthropology, and Archaeology, University of Akron, Fall 2001 - 2006. Chair of this committee, Fall 2002 - 2005.

Judge for Student Paper Competition, Annual Meeting of the East Lakes Division of the Association of American Geographers, October 2000.

Chair of Search Committee, Faculty Tenure Track position, Department of Geography and Planning, University of Akron, 2000 - 2001.

Chair of Scholarship Committee, Association of Ohio Pedologists, 2000 - 2001.

Academic Representative on Executive Board of the Association of Ohio Pedologists, 2000 - 2001.

Responsible for supervising maintenance of Department of Geography and Planning web page, 1999 - 2001.

2000 Annual Meeting Program Committee, Association of American Geographers, 1999 - 2000.

Department representative to Buchtel College Council: Fall 1999 - 2001.

Nominations Committee, East Lakes Division of the Association of American Geographers, 1998-1999.

Chair of Search Committee, GIS Laboratory Manager, Department of Geography and Planning, University of Akron, 1998-1999.

Departmental Honors preceptor, 1997 - present.

Member of Graduate admissions committee, 1995 - 1998.

Advisor to Cartography 2+2 undergraduate students, 1995 - 2000.

Member of committee to produce a brochure describing departmental graduate programs, 1995-1996.

Reviewer of manuscripts for the following publications: *Annals of the Association of American Geographers*, *Arab World Geographer*, *Catena*, *Clays and Clay Minerals*, *Environmental Management*, *European Journal of Soil Science*, *Geoderma*, *Geology*, *Geomorphology*, *Geophysical Research Letters*, *Journal of Biogeography*, *Journal of Geography*, *Journal of Geography in Higher Education*, *Journal of Geoscience Education*, *Journal of Plant Nutrition and Soil Science*, *Michigan Academician*,

*Perspectives on Science and Christian Faith, Professional Geographer, Restoration Ecology, Soil Science, Soil Science Society of America Journal, Wetlands.*

Reviewer of grant proposals for the National Science Foundation (3 to 4 proposals per year).

## **Courses taught at University of Akron**

3350:100 Introduction to Geography

3350:100 Introduction to Geography (Honors)

3350:305 Maps and Map Reading

3350:310 Physical and Environmental Geography

3350:351 Ohio: Environment and Society

3350:405/505 Geographic Information Systems

3350:407/507 Advanced Geographic Information Systems

3350:409/509 Archaeogeophysical Survey (team-taught with faculty from CSAA and Geology)

3350:415/515 Environmental Planning

3350:442/542 Thematic Cartography (now called Cartographic Theory and Design)

3350:449/549 Advanced Remote Sensing

3350:481/581 Research Methods in Geography and Planning

3350:489/589 ST: Human Impact on the Environment

3350:489/589 ST: Natural Resources Applications in GIS

3350: 589 ST: Graduate Colloquium

3350:489/589 ST: Urban Information Systems (now 3350:543 Urban Applications in GIS)

3350:495/595 Soil and Water Field Studies

3350:497/597 Regional Field Studies

3350:600 Seminar: Natural Resources and GIS

3350:600 Seminar: Human Impact on the Environment

3350:600 Seminar: Historical Ecology

3350:600 Seminar: Urban Information Systems