

Patricia L. Drews

Associate Professor of Geography
Department of Geology/Geography
Northwest Missouri State University
800 University Drive
Maryville, MO 64468

Office Phone: (660) 562-1273
Fax: (660) 562-1055
drews@nwmissouri.edu

Education

Ph.D., Geography, University of South Carolina, Columbia, South Carolina, 1999

Dissertation: "Modeling Land Use Conversion at the Rural-Urban Fringe"

Advisor: Dr. David Cowen

M.S., Geography, The Pennsylvania State University, University Park, Pennsylvania, 1978

Thesis: "Spatial and Temporal Structure in Pennsylvania's Unemployment"

Advisor: Dr. Peter Gould

B.S., Geography, Kansas State University, Manhattan, Kansas, 1974

Summa Cum Laude, Honors Program

Professional Experience

Northwest Missouri State University, Maryville, Missouri

Associate Professor, Department of Geology/Geography

August 2007 – present

Assistant Professor, Department of Geology/Geography

August 1999 – August 2007

Graduate Program Director, Department of Geology/Geography

August 2003 – present

Director of Geo-Technical Services

August 2002 – August 2005

Co-Director of Geo-Technical Services

August 2000 – July 2002

University of South Carolina, Columbia, South Carolina

Instructor

August 1998 – May 1999, Fall 1996

Teaching/Research Assistant

August 1995 – August 1998

Environmental Systems Research Institute, Inc., Redlands, California

Consultant / Project Manager

March 1990 – June 1995

American Management Systems, Inc., Arlington, Virginia

Member of GIS Practice Group

July 1988 – March 1990

National Academy of Sciences, Washington, D.C.

Manager of Applications, Office of Computer and Information

1987 – July 1988

Technology

Senior Systems Analyst

February 1984 – 1987

Cap Gemini DASD, Vienna, Virginia

Senior Programmer/Analyst

August 1982 – February 1984

CEEXEC, Inc., McLean, Virginia

Programmer/Analyst

October 1978 – July 1982

Courses Taught

Department of Geology/Geography, Northwest Missouri State University

Geographic Information Systems
Advanced GIS
Special Topics in GIS
Digital Image Processing
Population Geography
Senior Seminar
Principles of GIS (online)
Spatial Analysis and Geostatistics (online)
GIS Database Design (online)
GIS Project Management (online)

Department of Geography, University of South Carolina

Introduction to GIS
Advanced GIS
ArcView training for the Savannah River Site, U.S. Department of Energy

University of California, Riverside – Extension Program

Principles of GIS Data Management, Winter 1995, Co-instructor

University of Redlands, Redlands, CA

Introduction to Spatial Information Systems, Fall 1992, Co-instructor

Research

- Drews, P. L., and Rytting, J. R. 2010. Dialect translation in the manuscripts of *The Reeve's Tale*. Paper presented at Medieval Translator 2010: The Cardiff Conference on the Theory and Practice of Translation in the Middle Ages, Padova, Italy, July 23-27, 2010.
- Drews, P. L. and Haddock, G. 2009. Survey of student opinions of electronic textbooks. Paper presented at the Annual Meeting of the Association of American Geographers, Las Vegas, NV, March 22-27, 2009.
- Drews, P. L. 2008. Comparison of attrition in an online and on-campus Master's programs. Paper presented at the Annual Meeting of the Association of American Geographers, Boston, MA, April 15-19, 2008.
- Drews, P. L. 2006. Evolution of an online GIScience M.S. degree curriculum. Paper presented at the Sixth Annual ESRI Education User Conference, San Diego, CA, August 5-8, 2006.
- Drews, P. L. 2005. The tools and processes used for Congressional and legislative redistricting in Missouri. *Papers of the Applied Geography Conferences*, Vol. 28, 2005, pp. 377-386.
- Drews, P. L., and Haddock, G. 2005. Curriculum and support for an online GIScience program. Paper presented at the Annual Meeting of the Association of American Geographers, Denver, CO, April 5-9, 2005.
- Haddock, G., and Drews, P. L. 2005. Use of course development software for GIS project management. Paper presented at the Annual Meeting of the Association of American Geographers, Denver, CO, April 5-9, 2005.
- Drews, P.L. 2004. First-year assessment of an online Master's program in GIScience. *Proceedings of the Fourth Annual ESRI Education User Conference*, San Diego, CA.
- Haddock, G. and Drews, P. L. 2004. The GIS lab experience in lecture-based and web-based settings. Paper presented at the Annual Meeting of the Association of American Geographers, Philadelphia, PA, March 14-19, 2004.
- Drews, P.L. 2003. Challenges and lessons learned in teaching an online GIS course. *Proceedings of the Third Annual ESRI Education User Conference*, San Diego, CA.

- Drews, P. L. 2002. Congressional and legislative redistricting in 2001: The tools, lessons learned, and politics. Paper presented at the Annual Meeting of the Association of American Geographers, Los Angeles, CA, March 19-23, 2002.
- Drews, P. L. 2000. Integration of GIS and remotely sensed imagery for analysis of land use conversion. Paper presented at the Annual Meeting of the Association of American Geographers, Pittsburgh, PA, April 4-8, 2000.
- Drews, P. L. 1998. A statistical model of rural-to-urban land use conversion. Paper presented at the Annual Meeting of the Association of American Geographers, Boston, MA, March 1998. Awarded best student paper at a session sponsored by the Contemporary Agriculture and Rural Land Use Specialty Group,
- Janiskee, R. L., and Drews, P. L. 1998. Rural festivals and community reimagining. In *Tourism and Recreation in Rural Areas*, ed. Richard Butler, C. Michael Hall, and John Jenkins. Chichester: John Wiley & Sons, Ltd.
- Drews, P. L. 1997. Tourism development in rural South Carolina: A case study of Abbeville and McCormick. Paper presented at the Annual Meeting of the Southeastern Division of the Association of American Geographers, Birmingham, AL, November 1997.

Invited Contributions

- Drews, P. L. 2010. Invited panelist for “Community of Professional Graduate Programs in GIS&T.” Panel session at the Annual Meeting of the Association of American Geographers, Washington, D.C., April 14-18, 2010.
- Drews, P. L. 2007. Invited panelist for “Distance Learning and GIScience.” Panel session at the Annual Meeting of the Association of American Geographers, San Francisco, CA, April 17-21, 2007.
- Drews, P. L. 2005. Invited panelist for “Distance Education and Geography.” Panel session at the Annual Meeting of the Association of American Geographers, Denver, CO, April 5-9, 2005.
- Drews, P. L. 2000. Modeling rural-to-urban land use conversion with parcel data. Invited lecture under the Visiting Scholars Series, Department of Geography, Kansas State University, Manhattan, KS, June 22, 2000.

Other Presentations

- Drews, P. L. 2008. Online Master’s degree and graduate certificate programs in geographic information science at Northwest Missouri State University. Kansas City ArcInfo User’s Group meeting, Liberty, MO, March 11, 2008.
- Drews, P. L. 1997. Introduction to geographic information systems. Information Access Conference V, sponsored by the College of Library and Information Science of the University of South Carolina and the South Carolina Historical Records Advisory Board, Columbia, SC, April 1997.
- Drews, P. L. 1992. Presentation on ArcCensus. Meeting of the Association of Research Librarians, GIS Literacy Project, in conjunction with the 1992 ESRI User Conference, Palm Springs, CA, June 1992.
- Drews, P. L. 1991. Presentation on the functionality of ESRI’s Core Redistricting Application. 1991 ESRI User Conference, Palm Springs, CA, May 1991.
- Drews, P. L. 1990. Presentation and demonstration of ESRI’s redistricting macros. 1990 ESRI User Conference, Palm Springs, CA, May 1990.

Master’s Thesis Advisor

- Berzini, M. 2010. M.S. in GIScience thesis: Modeling using network analysis to examine travel distance minimization in forestry field sampling.
- Eichhorn, C. 2011. M.S. in GIScience thesis: A comparison of federal geospatial taxonomic standards among selected U.S. Department of Defense and U.S. Department of Interior agencies.

- Foster, E. 2008. M.S. in GIScience thesis: Using geographic information systems to determine street, road, and highway functional classification accuracy.
- Matney, B. 2008. M.S. in GIScience thesis: Using an animated geographic information system to improve the quality of secondary education of history in America.
- Morgan, J. 2008. M.S. in GIScience thesis: Spatial implications of municipal sex offender residency restrictions in Bay County, Florida, 2005-2007.
- Lynch, C. 2007. M.S. in GIScience thesis: Examining the relationship between property value and urban sprawl in Canyon County, Idaho.
- Addison, A. 2006. M.S. in GIScience thesis: ArcGIS geodatabase data model for cave science.
- Brundage, R. 2006. M.S. in GIScience thesis: Implementing an archival GIS template utilizing ArcMap GIS software and the personal geodatabase.

Thesis advisor for 12 theses in progress

Member of thesis committee for 13 completed theses and 21 theses in-progress

Grants

- Northwest Missouri State University, College of Arts and Sciences Research Assistance Award. Dialect Translation in the Manuscripts of *The Reeve's Tale*. Co-principal investigators J. R. Rytting and P. L. Drews, \$706.54, 2009-2010.
- Northwest Missouri State University, Center for Information Technology in Education. Developing the online course "GIS Database Design." Principal investigator. 2003.
- Northwest Missouri State University, Center for Information Technology in Education. Developing the online course "Principles of GIS." Principal investigator. 2002.
- Northwest Missouri State University, Culture of Quality, Improvement of Teaching and Learning Committee grant. Grant to secure authorization to teach ArcView GIS training courses. Co-principal investigators, P. L. Drews and G. Haddock, \$4,729.00, 2001-2004.

Awards

- Tower Service Award, Northwest Missouri State University, 2005.
- 2004 CITE eAward, Northwest Missouri State University, Corson, M., Drews, P., Haddock, G., Hung, M., and Wu, Y., 2004.
- Best student paper at a session sponsored by the Contemporary Agriculture and Rural Land Use Specialty Group, Annual Meeting of the Association of American Geographers, Boston, MA, March 1998.

Professional Affiliations

- Association of American Geographers
 National Council for Geographic Education
 Urban and Regional Information Systems Association
 Kansas City Arc/Info Users' Group
 Gamma Theta Upsilon Honor Society

Research Interests

GIS, GIScience education, land use conversion, redistricting