Curriculum Vitae

Michael T. Applegarth, Ph.D.

Associate Professor
Department of Geography and Earth Science
Shippensburg University
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Education

Arizona State University, Tempe, Arizona

Doctor of Philosophy, Geography; 2001

Dissertation: Interpretation of Pediment Form using Geographic Information Technology and Field Data

University of Northern Iowa, Cedar Falls, Iowa

Master of Arts, Geography; 1997

Thesis: Soil Catenas of Calcareous Tills, Whiskey Basin, Wyoming

Northern Arizona University, Flagstaff, Arizona

Bachelor of Science, Geography; 1994

Courses Taught

Geography of the United States and Canada

Introduction to the Atmosphere

Introductory Geology

Image Processing

Remote Sensing

Soils

Journal Articles

Applegarth, M.T. and Stefanov, W.L. 2006. Use of Thermal Infrared Multispectral Scanner (TIMS) Imagery to Investigate Upslope Particle Size Controls on Arid Piedmont Morphology. *Geomorphology*, 82, pp. 388-397.

Applegarth, M.T. 2004. Assessing the influence of mountain slope morphology on pediment form, south-central Arizona. *Physical Geography*, 25, pp. 225-236.

Applegarth, M.T. and Dahms, D.E. 2004. Aeolian modification of moraine soils, Whiskey Basin, Wyoming, USA. *Earth Surface Processes and Landforms*, 29, pp. 579-585.

Applegarth, M.T. 2002. Use of debris morphology and soil development to assess surface stability on bedrock hillslopes, south Phoenix, Arizona. *Journal of the Arizona-Nevada Academy of Science*, 32, pp. 81-88.

Applegarth, M.T. and Dahms, D.E. 2001. Soil catenas of calcareous tills, Whiskey Basin, Wyoming, U.S.A. *Catena,* 42, pp. 17-38.

Other Publications

Beyer, P.J., Pope, G.A., and Applegarth, M.T. 2004. Digging with the Devil: Physical Geography and Resource Use in the New Jersey Pine Barrens. In P.H. Dougherty (Ed.) *Geography of the Philadelphia Region: Cradle of Democracy*. Association of American Geographers Annual Meeting Publication.

Dahms, D.E., Hall, R.D., Shroba, R.R., Sorenson, C.J., Lynch, E.A., Applegarth, M.T., and Dillon, J. 2003. The Rocky Mountain Glacial Model: The Wind River Range, Wyoming. In D.J. Easterbrook (Ed.) *Quaternary Geology of The United States.* International Union for Quaternary Research 2003 Field Guide Volume.

Book Review; "Soils and Geomorphology," *Geographical Bulletin*, Nov. 1999, pp. 121.

Recent Professional Presentations

International/National

2007: Association of American Geographers Annual Meeting, San Francisco, CA: Growth and Land Use Change in Mohave County, Arizona."

2006: Association of American Geographers Annual Meeting, Chicago, IL: "The Use of Digital Elevation Models to Indicate Bedrock Pediment Location, South Central Arizona."

2005: Association of American Geographers Annual Meeting, Denver, CO: "Moraine Discrimination using Digital Elevation Models and Field Data, Wind River Range, Wyoming."

2004: Association of American Geographers Annual Meeting, Philadelphia, PA: "Soil Development as an Indicator for Mass Wasting on South Mountain, Pennsylvania." (co-authored with Adam Dellinger and William Blewett)

2003: Association of American Geographers Annual Meeting, New Orleans, LA: "Development of a Model to Interpret Pediment Form."

2002: Association of American Geographers Annual Meeting, Los Angeles, CA: "Use of Thermal Infrared Multispectral Scanner (TIMS) Imagery to Interpret Particle Size on Desert Hillslopes."

2001: American Geophysical Union Meeting, San Francisco, CA: "Geomorphic Analysis of Semi-Arid Landforms Using Mid-Infrared Spectroscopy and Remote Sensing." (co-authored with William Stefanov)

2001: Association of American Geographers Annual Meeting, New York, NY: "Pediment Controls in the Sonoran Desert."

Regional

2007: Pennsylvania Geographic Society Annual Meeting, Johnstown, PA: "Geography of Southeastern Arizona."

2006: Pennsylvania Geographic Society Annual Meeting, Salisbury, MD: "Geography of Las Vegas and Northwestern Arizona."

2005: Pennsylvania Geographic Society Annual Meeting, Greensburg, PA: "An Arizona Tour."

2004: Pennsylvania Geographic Society Annual Meeting, Harrisburg, PA: "A Trip Around the Wind River Range."

2003: Pennsylvania Geographic Society Annual Meeting, Erie, PA: "Bedrock Pediment vs. Alluvial Slope: Geomorphic variations of Desert Piedmonts."

Research Grants Awarded

2005: Center for Faculty Excellence in Scholarship and Teaching: Advanced training in ERDAS IMAGINE Remote Sensing/Image Processing software, 'Using Imagery to update your GIS' and 'Introduction to Leica Photogrammetry Suite.'

2004: Center for Faculty Excellence in Scholarship and Teaching: Advanced training in ERDAS IMAGINE Remote Sensing/Image Processing software, 'Spatial Modeling and Expert Systems' and 'Multispectral Classification.'

2003: Center for Faculty Excellence in Scholarship and Teaching: Advanced training in ERDAS IMAGINE Remote Sensing/Image Processing software 'Fundamentals of ERDAS IMAGINE' and 'Advancing with ERDAS IMAGINE.'

2003: Pennsylvania State System of Higher Education Faculty Professional Development Council: "Modeling moraine morphology using image processing and field data, Wind River Range, Wyoming."

Professional Memberships

Association of American Geographers

National Council for Geographic Education

Geological Society of America

Pennsylvania Geographic Society

Arizona-Nevada Academy of Sciences

Awards and Honors

Department of Geography and Earth Science (Shippensburg University) Faculty Research Award, 2002

Melvin G. Marcus Memorial Endowment Award, 2000

Tom McKnight and Joan Clemons Award for Outstanding Student Paper, Association of Pacific Coast Geographers Annual Meeting, Reno, NV, 1999