

# PROFESSIONAL VITA

FOR

**Thomas W. Small**

## I. PERSONAL INFORMATION

**Business Address:** Department of Geography  
Frostburg State University  
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## II. EDUCATION

### A. Degrees Earned:

<i>College Attended</i>	<i>Degree</i>	<i>Dates</i>
Illinois State University	B.S. (in Educ.)	Jan., 1966
Illinois State University	M.S.	Aug., 1967
Univ. of Wisconsin (Madison)	Ph.D.	Aug., 1973

### B. Academic Specialization:

- Undergraduate:** Physical Geography (Geomorphology),  
Geology
- Graduate:** Geomorphology, Soils, Geology
- Post-Doctoral:** Soil Geomorphology (especially physical, chemical,

engineering properties terrain related, soil  
genesis and morphology)  
Soil/Sediment Analysis and Characterization  
Glacial and Pleistocene Geomorphology  
Fluvial Geomorphology

### III. TEACHING EXPERIENCE

#### School

Northland College	Lecturer in Geography	9/67-8/69
Frostburg State College	Assistant Professor	9/72-8/74
Frostburg State College	Associate Professor	9/74-8/82
Frostburg State College	Professor	9/82-8/87
Frostburg State University	Professor	9/87-present

(Tenure: 6/30/76; Professor: 8/18/82)

### IV. SCHOLARLY ACTIVITIES

#### A. Publications (peer-reviewed):

"Morphological Properties of Driftless Area Soils Relative to Slope Aspect and Position", *The Professional Geographer*, 1972, 24:321-326.

A critique of M.A. Carson and M.J. Kirkby's *Hillslope Form and Process* for *Geographical Analysis: An International Journal of Theoretical Geography*, 1973, 5:174-176.

"Hillslope Form and Process in Selected Watersheds Near Mineral Point, Wisconsin," presented at American Quaternary Association, Third Biennial Meeting, Madison, Wisconsin, July, 1974 (Reprinted in *Late Quaternary Environments of Wisconsin*, pp. 209-215).

"Methane/Natural Gas Feasibility Study for College Campuses in Western Maryland," Maryland State Board for Higher Education, Post-Secondary Education Reports, August 1982, 75 p.

"Coal Geology and Land Reclamation of the Georges Creek Region, Maryland," *Guide to Field Trips*, Eastern Section of National Association of Geology Teachers (Frostburg, MD); May 1986, pp. 1-23.

"Pedology and Geomorphic Environment of the Murley Branch Archeology Sites" in *Archeological Testing of Four Prehistoric Sites in Town Creek Valley, Allegany County, Maryland*, by M. Kavanagh and C. Ebright (eds.), Md. Geol. Surv. Archeol. Div., File Report No. 216, 1988, pp. IV-1 - IV-20.

"Tree Uprooting: Review of Terminology, Process, and Environmental Implications," with R.J. Schaetzl, D.L. Johnson, and S.F. Burns, *Canadian Journal of Forest Research*, 1989, 19:1-11.

"Floralurbation of Soils by Tree Uprooting: Review of Impacts on Forest Ecology," with R.J. Schaetzl, D.L. Johnson, and S.F. Burns, *Vegetatio*, 1989, 79:165-176.

"Tree Uprooting: Review of Types and Patterns of Soil Disturbance," with R.J. Schaetzl, D.L. Johnson, and S.F. Burns, *Physical Geography*, 1990, 11:277-291.

"Redistribution and Mixing of Soil Gravels by Tree Uprooting," with R.J. Schaetzl and J.M. Brixie, *Professional Geographer*, 1990, 42:445-457.

"Geomorphology and Quaternary Geology," an invited review of the most significant developments in these fields for 1990, in *Geotimes* 36(2):39 (American Geological Institute).

"Effects of Slope Angle on Mass Movement by Tree Uprooting," with S. Norman and R.J. Schaetzl, *Geomorphology*, 1995, 14:19-27.

"The Goodlett-Denny mound: a glimpse at 45 years of Pennsylvania treethrow mound evolution with implications for mass wasting," *Geomorphology*, 1997, 18:305-313.

**B. Papers Given:**

"Soil Texture and Solum Depth as Evidence of Intra-Valley Differential Weathering," presented at the 22nd Annual Meeting. West Lakes Division, Association of American Geographers, Iowa City, Iowa, October 1971.

"Some Observations of the Effects of Slope Form Asymmetry in Southwestern Wisconsin," presented at the East Lakes Division, Association of American Geographers, Pittsburgh, PA, October 1973.

"Field Evidence for the Quasi-Independent Development of Upper and Lower Portions of Hillslopes," presented at the Middle Atlantic Division, Association of American Geographers, College Park, Maryland, February 1975.

"Some Factors in the Morphology and Evolution of Tree-Tip Mounds, Baltimore, Maryland," presented at the Middle Atlantic Division, Association of American Geographers, Fairfax, Virginia, October 1982.

"Tree-Tip Mound/Pit Morphology in Leakin Park, Baltimore City, Maryland," presented at the Association of American Geographers, Annual Meeting, Denver, Colorado, April 1983 (with R. Dubois), *Abstracts*, p. 43.

"Southwestern Wisconsin Hillslope Form," presented at the Association of American Geographers, Annual Meeting, Washington, D.C., April 1984, *Program Abstracts*, p. 270.

"Form Attributes of Asymmetrical Hillslopes, Southwestern Wisconsin," presented at the Association of American Geographers, Annual Meeting, Detroit, Michigan, April 1985, *Program Abstracts*, No. 38.

"Soil Properties Over Driftless Area Hillslopes, Southwestern Wisconsin," presented at the Association of American Geographers, Annual Meeting, Minneapolis, Minnesota, May 1986, *Program and Abstracts*, p. 3.

"Treethrow Mound Erosion: Potter County, PA," presented in a Special Session on *Soil Pedoturbation* organized by TWS and sponsored by the Geomorphology Specialty Group at the Association of American Geographers, Annual Meeting, Portland, Oregon, April 1987, *Program and Abstracts*, p. 95.

"Fragipan Influence in Minimizing Treethrow Pedoturbation," presented at Association of American Geographers, Annual Meeting, Phoenix, Arizona, April 1988, *Program and Abstracts*, p. 175.

"Erosion on Treethrow Mounds: Toward a Conceptual Model," presented at Soil Science Society of America, Annual Meeting, Anaheim, California, November 1988, *Agronomy Abstracts*, p. 267.

"The Treethrow Rootplate Disintegration/Mound Erosion Model," presented at Association of American Geographers, Annual Meeting, Toronto, Ontario, Canada, April, 1990, *Program and Abstracts*, p. 228.

"Geology of the Cumberland-Frostburg region, Western Maryland," invited presentation for the Middle Atlantic Division, Association of American Geographers, Frostburg State University, October 23, 1993.

"Soil Erosion Rates on Treethrow Mounds, Potter County, Pennsylvania," presentation for Association of American Geographers, Annual Meeting, San Francisco, California, March 1994, *Program and Abstracts*, p. 354.

"Geology of Western Maryland," invited presentation for joint meeting of Botanical Society of America, Torrey Botanical Club, and Philadelphia Botanical Club, Frostburg State University, June 27, 1994.

"Spatial Characteristics of Regolith Erosion on Treethrow Mounds, Potter County, Pennsylvania," invited presentation for symposium on "Regoliths in the Appalachian Highlands Beyond the Wisconsinan Glacial borders," given at Southeastern Section of The Geological Society of America, Annual Meeting, Knoxville, TN, April, 1995, *Abstracts With Programs*, p. 87.

"Geology of Coal," invited presentation for symposium *Coal in the Classroom*, Frostburg State University, April 26, 1995.

"Coal Mining history in Western Maryland," invited presentation for symposium *Coal in Western Maryland*, Frostburg State University, March 2, 1998.

"Geography in the Twenty-First Century: The Health of the Discipline," invited panelist, Association of American Geographers, Annual Meeting, New York, New York, March, 2001, *Program and Abstracts*, p. 279.

### **C. Consulting:**

Froehling and Robertson, Roanoke, VA, 1984 (bedrock stratigraphy at drill core site (Guild Center) - FSC).

Maryland Council for the Humanities, 1984 (evaluator for "Cresaptown" archeology project).

Frostburg State College/Maryland Department Gen. Services, 1985 (coal mine subsidence, FSC campus).

George Construction Company, Cumberland, MD, 1985 (Proctor testing of fill suitability for construction sites).

Maryland Geologic Survey, Archeological Divison, 1985 (pedology and geomorphology of Murley Branch archeological sites).

Archeological Society of Maryland, 1987 (pedology and geomorphology of the Barton sites, Pinto, MD).

Maryland Council for the Humanities, 1987 (pedology and geomorphology of the Potomac Valley, Casselman Valley, and other coal region impacted archeological sites).

CRoWD (Citizens for Responsible Waste Disposal), 1989-1990 (geology and soils/overburden analysis/review/testimony (latter at Maryland Department of the Environment formal hearing for the proposed Allegany County landfill at Vale Summit, MD)).

L. Berger and Associates, Inc. (NJ), 1990 (soil genesis and characterization at Mexico Farms (Cumberland, MD) federal prison site).

L. Berger and Associates, Inc. (NJ), 1991 (soil genesis and characterization at Millersville Landfill Expansion Project, Anne Arundel County, MD).

Non-Tidal Wetlands: Ecology, Regulation, and Delineation Procedures, 1990, 1991 (short-course instructor for identification, delineation, and analyses of hydric soils).

L. Berger and Associates, Inc. (NJ), 1992 (soil genesis and characterization at Petersburg (WV), Army Corp of Engineers levee construction sites).

W. Franklin & Associates, Inc. (MD), 2003 (report on the Snaggy Mountain Subdivision at Deep Creek Lake pertaining to groundwater/surface water considerations affecting land development)

**D. Reviews for National Science Foundation:**

Invited review of NSF proposal by B. Borowiecki on "The Origin of the New York Drumlin Field," 1987. Proposal funded.

Invited review of NSF proposal by D.L. Johnson on "A Reassessment of the Genetic Relationship Between the Basal Roxanna Silt-Stone Line-Sangamon B Horizon Soil Sequence in the Midcontinental USA," 1989. Proposal funded.

Invited review of NSF proposal by K. McSweeney and Alex McBratney on "Soil Horizon Stratigraphy: A Framework for Elucidating the Structure and Evolution of Soil-Landscape Continuum," 1992. Proposal not funded.

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**E.     Reviews for Professional Journals:**

Reviews for *Geomorphology* (Elsevier, Netherlands)

1995 – Ciolkosz, et al. “Quaternary Soil Sequences on Susquehanna River Terraces”

1998 – H. Sun “Valleys and Stream Deposits of the Appalachians”

**F.     Compensated Reviews for Textbooks:**

Levin, H., 1988, *The Earth Through Time*. Second Edition. Saunders Publishing Company, Inc.

Muller R. and T. Oberlander, 1988, *Physical Geography Today*. Third Edition. Random House Publishing Company of CBS, Inc.

Anonymous, 1989, *Physical Geography* manuscript. Times- Mirror/Mosby College Publishing, Inc.

Scott, R.C., 1989, *Physical Geography*. First Edition. West Publishing Company, Inc.

**G.     Awards/Honors:**

**Summer Visiting Professorships:**

Associate Professor, Geography Department  
University of Manitoba, Winnipeg (main campus - 1976)

Associate Professor, Professor, Geography Department  
University of Wisconsin (Madison) - 1975, 1978, 1979, 1982, 1984

**Lectureship:**

Maryland State Well Drillers Certification Course, Frostburg, February 1994,  
principal instructor.

**Sabbaticals Awarded:**

1978 - Honorary Visiting Professor, University of Wisconsin (Madison).

1985 - Forest research associated with tree uprooting, Potter County, PA  
(papers and publications as a direct result of this research).

1992 - Forest research associated with tree uprooting, Potter County, PA  
(papers and publications as a direct result of this research).

1999 – Forest research associated with tree uprooting and soil erosion, Potter

County, PA (paper, manuscript, and data processing in progress)

**H. Memberships/Participation in Scholarly Organizations:**

American Quaternary Association  
Field Conference of Pennsylvania Geologists  
Friends of the Pleistocene, Northeast Cell  
Soil Science Society of America  
American Agronomy Association  
New York State Geological Association

**V. SERVICE ACTIVITIES**

**A. University:**

University Senate - several terms, full (2 yr.), partial (1 yr. and 1 sem.)  
Faculty Concerns - 5 terms, 4 as Chair  
IPR - 1 sem.  
University Promotion Committee - 2 full terms  
Geography Department, Chair (term beginning 7/2000)  
Environmental Planning and Land Management Institute (Co-Director, beginning 10/2000)

**B. Community:**

CROWD - Mountainview Landfill application review committee (included technical review of application for environmental conservation, hearing testimony, meetings with Governor Schafer, in total over 100 hours of potentially billable time); 1989-1990.

VOTE - "Voice of a Thoughtful Electorate" (political action committee, non-partisan), function was to urge voters to replace Allegany County Commissioners re the county landfill (successful - all three lost); Fall, 1990.

GREENVILLE TOWNSHIP – elected to political office as township auditor for Greenville Township (Somerset County), a six (6) year term commencing in 2004.