

Vita

W. Lee Daniels

Professor of Environmental Soil Science

Department of Crop and Soil Environmental Sciences
Virginia Polytechnic Institute and State University
Blacksburg, Virginia 24061-0404
540-231-7175 (W) 540-961-1226 (H)
540-231-7630 (F) wdaniels@vt.edu

Education

B.S.	Forestry	VPI & SU	1978
M.S.	Agronomy - Soil Genesis	VPI & SU	1980
Ph.D.	Agronomy - Soil Geomorphology	VPI & SU	1985

Previous Experience

1989-1998 Associate Professor in Crop and Soil Env. Sci. (Va Tech)
1987-1989 Assistant Professor in Agronomy (Va Tech)
1982-1987 Instructor in Agronomy (Va Tech)
1981-1982 Research Associate in Agronomy (Va Tech)

Honors and Recognition

Outstanding Technical Paper Award, 1982 National Symposium on Surface Mining Hydrology, Sedimentology and Reclamation, Lexington, KY.

Outstanding Ph.D. Candidate Award, VPI & SU Sigma Xi Science Society (1985)

Governor's Advisory Committee on Mined Land Reclamation in Virginia (1985-1994)

President, Virginia Association of Professional Soil Scientists (1988)

President, American Society for Surface Mining and Reclamation (1990)

Research Paper Technical Merit Award, Pittsburgh Coal Conference (1993)

Reclamation Researcher of the Year, Amer. Society for Surface Mining and Reclamation. (1993)

Keynote Speaker, First South American International Conference on Rehabilitation of Degraded Lands, Parana, Brazil. (1994)

USEPA National Biosolids Beneficial Use Research Award (2000)

Coordinator, International Affiliation of Land Reclamationists (From 2006)

Areas of Specialization and Research Expertise

Restoration of disturbed lands including areas disturbed by mining, road building, waste disposal, urbanization, and erosion. Extensive experience in mine reclamation and wetlands restoration.

Geochemistry of near-surface weathering reactions and their influence on soil solution, leachate chemistry, and runoff water quality, including lab simulations and field verification.

The influence of land application of wastes on soil properties, geochemical weathering reactions, and water quality. Extensive experience with municipal and industrial sludges and coal combustion byproducts.

Soil geomorphology and landscape analysis with particular emphasis on the relationships among surficial geology, hydrology, soil patterns, and long-term landscape evolution processes.

Screening and evaluation of industrial/municipal waste streams for utilization as soil amendments.

Conversion of mining residuals and by-products to value-added manufactured soils.

Remediation and beneficial use conversion of dredge spoils and contaminated sediments.

Teaching Programs

Undergraduate, graduate, and adult education in basic soils, soil genesis, geomorphology, wetlands and hydric soils, mined land reclamation, and wetland impact mitigation.

Membership in Professional Organizations

American Coal Ash Association
American Society for Mining and Reclamation
Gamma Sigma Delta
Sigma Xi
Society of Wetland Scientists
Society for Mining, Metallurgy and Exploration
Soil Science Society of America
Virginia Association of Professional Soil Scientists
Virginia Association of Wetland Professionals
Water Environment Federation

References and a list of publications (200+) are available upon request.