

Recent Honors

Mark Abkowitz appointed to the National Academy of Sciences, Transportation Research Board Committee on Transportation of Hazardous Materials.

James Clarke appointed to the Executive Board of the Environmental Sciences Division of the American Nuclear Society and the U.S. Nuclear Regulatory Commission Advisory Committee on Nuclear Waste.

Molly F. Miller, Association for Women Geoscientists 2005 Outstanding Educator Award; Vanderbilt University College of Arts and Science 2004 Jeffrey Nordhaus Award for Excellence in Undergraduate Teaching

Calvin F. Miller, American Geophysical Union 2005 Daly Lecturer

Frank Parker, Award of Excellence from the Department of Energy

Vanderbilt is home to the first National Science Foundation program on interdisciplinary graduate study of reliability and risk.

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<http://sitemason.vanderbilt.edu/site/ldTsE8/home>

For more information about
Vanderbilt University:

<http://www.vanderbilt.edu/facts>

For more information about
the city of Nashville, TN:

<http://www.vanderbilt.edu/nashville/>

VANDERBILT  UNIVERSITY

Earth and Environmental Sciences

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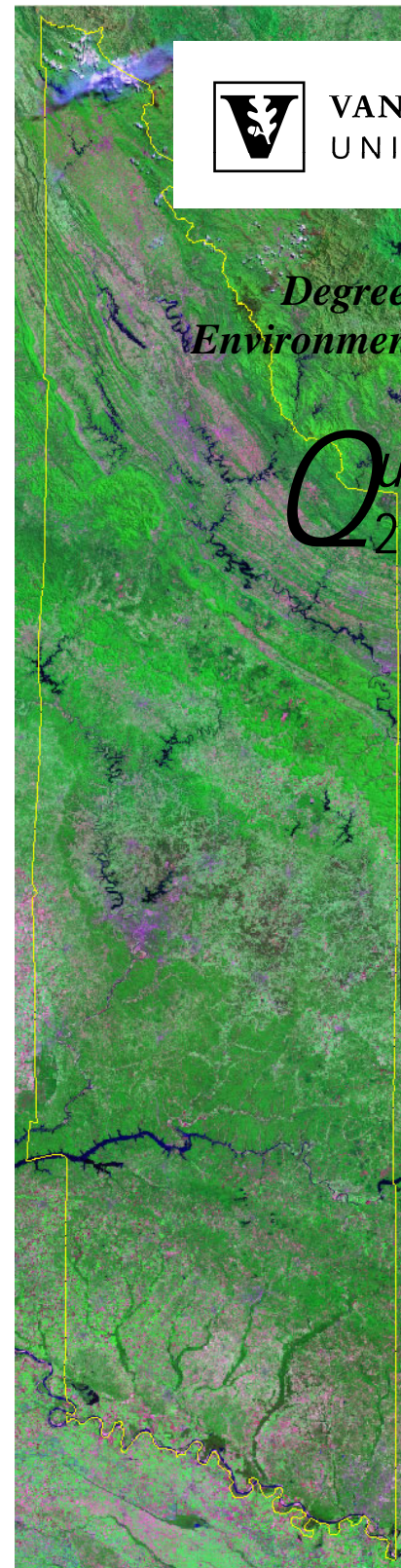
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VANDERBILT
UNIVERSITY

*Degree Options in
Environmental Science*

Quick Facts
2005-2006



Faculty and Specialties

John Ayers (Ph.D. Rensselaer, 1991)
Geochemistry

Mark Abkowitz (Ph.D. MIT, 1980)
Environmental Risk Management and Risk Assessment

Alan Bowers (Ph.D. 1982, Univ. Delaware)
Environmental Chemistry, Adsorption Processes, Heavy Metals

James Clarke (Ph.D. 1973, Johns Hopkins)
Contaminated Site Restoration, Environmental Policy, Environmental Forensics

David Furbish (Ph.D. Colorado, 1985)
Geomorphology, Hydrology, Fluid Mechanics

Steven Goodbred (Ph.D. William & Mary, 1999)
Sedimentology and Climate Change

David Kosson (Ph.D. 1986, Rutgers)
Chemical and Environmental Engineering

Eugene LeBoeuf (Ph.D. 1998, Univ. Michigan)
Physicochemical Processes of Environmental Systems

Calvin Miller (Ph.D. UCLA, 1977)
Igneous Petrology, Continental Tectonics

Molly Miller (Ph.D. UCLA, 1977)
Paleoecology, Sedimentology

Harold Park (Ph.D. 2004, Northwestern)
Modeling of nanostructured materials

Frank Parker (Ph.D. 1955, Harvard)
Hazardous and radioactive waste management

Florence Sanchez (Ph.D. 1996, Univ. Lyon, France)
Environmental Systems and Weathering of Nano-Structured Materials

Kaye Savage (Ph.D. Stanford, 2001)
Environmental Geochemistry

Vanderbilt University's Environmental Science option is administered jointly by the Departments of Civil and Environmental Engineering (School of Engineering) and Earth and Environmental Sciences (College of Arts and Science). Students may pursue work leading to the M.S. and Ph.D. degrees. To acquire a solid foundation for pursuing work in the areas of excellence above, students choose courses from four knowledge and skill areas that serve as the foundation for study:

materials — the physicochemical nature of solid and fluid earth materials;

processes — physical, chemical and biological processes affecting the transport and fate of materials in environmental systems;

systems — the dynamics of environmental systems wherein processes are coupled over a wide range of spatial and temporal scales; and

quantitative foundations — understanding and modeling uncertainty in environmental systems, notably as this pertains to science and engineering applications.

Focus on these key areas will allow students to be competitive in the academic and professional marketplace on completion of their studies, and provide them with flexibility to respond to current and future high-priority environmental research needs.



Research Areas

- Earth surface and subsurface system dynamics involving the intersection of engineering and geological timescales;
- Natural and human-induced environmental hazards and risk assessment; and
- Management and restoration of environmental systems involving coupled physical, chemical and biological elements.

Application and Financial Aid

Apply *free online* by January 15 by visiting the website <http://sitemason.vanderbilt.edu/site/ldTsE8/home>. Assistantships (TA, RA) provide nine-month stipends of \$14,000 to \$16,000 plus health insurance and graduate tuition waivers. Summer support is available.