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## for International Security Studies



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### NICHOLAS BASTA

Professor of Soil and Environmental Chemistry  
School of Environment and Natural Resources  
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#### Education

Ph.D., Iowa State University, Soil Chemistry (1989)  
M.S., Iowa State University, Soil Science (1984)  
B.S., The Pennsylvania State University, Chemistry (1981)

#### Teaching/Research

Nicholas Basta's research program focuses on environmental soil chemistry:

- Fundamental biogeochemical processes that affect heavy metal and trace element bioavailability, human health, and ecological risk in soil-water systems
- Development of innovative chemical methods and techniques to evaluate soil chemical processes and soil components that control bioavailability and/or risk of chemical species (e.g., nutrients, contaminants)
- Risk-based environmental chemistry of organic and inorganic pollutants in contaminated soils with emphasis on human (e.g., public health), agronomic (e.g., crop, animal), and ecotoxicity bioavailability and contaminant transmission pathways
- Development and evaluation of new technologies used for remediation of contaminated soils (e.g., in situ immobilization, bioremediation)
- Development of innovative in vitro chemical methods to evaluate the ability of new remediation methods to reduce contaminant bioavailability and risk and to evaluate the long-term environmental fate (e.g., longevity) of remediation
- Beneficial use of agricultural, industrial, and municipal by-products through land application
- Soil and environmental chemistries of by-products in agronomic/environmental systems with emphasis on their risk and environmental impact

#### Faculty Links

[Curriculum Vitae](#) (pdf)  
[Department webpage](#)  
[High-resolution photo](#)

#### Mershon Project

The Farmer's Minefield: Assessing the Ecological/Economic Capacity of Post-Conflict Agricultural Systems in Cambodia, with Erin Lin (2018-19)



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