

# Soil Science

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## Department Information

- **Director, School of Natural Resource Sciences:**  
Frank Casey, Ph.D.
- **Program Leader:**  
Thomas DeSutter, Ph.D.
- **Email:**  
Thomas.DeSutter@ndsu.edu
- **Department Location:**  
School of Natural Resource Sciences, Hultz 202
- **Department Phone:**  
(701) 231-5368
- **Department Web Site:**  
[www.ndsu.edu/snrs/degrees/graduate\\_degrees/](http://www.ndsu.edu/snrs/degrees/graduate_degrees/) ([http://www.ndsu.edu/snrs/degrees/graduate\\_degrees/](http://www.ndsu.edu/snrs/degrees/graduate_degrees/))
- **Application Deadline:**  
International applications are due May 1st for fall and August 1 for spring and summer semesters. Domestic applicants should apply at least one month prior to the start of classes.
- **Credential Offered:**  
Ph.D., M.S.
- **English Proficiency Requirements:**  
TOEFL iBT 71, IELTS 6; Duolingo 100

### Francis X.M. Casey, Ph.D.

Iowa State University, 2000

Research Area/Activity: Field Oriented Soil Physics, Measurement and Prediction of Water Transfer and Chemical Transport Through Soil

### Larry J. Cihacek, Ph.D.

Iowa State University, 1979

Research Area/Activity: Erosion and Productivity Relationships, Conventional and Alternative Crop Management, Carbon Sequestration, Nutrient Management

### Thomas M. DeSutter, Ph.D.

Kansas State University, 2004

Research Area/Activity: Trace Elements, Land Application of Byproducts, Inorganic Soil Chemistry, Soil Environmental Conditions

### David W. Franzen, Ph.D.

University of Illinois, 1993

Research Area/Activity: Soil Fertility/State Soil Specialist

### Caley Gasch, Ph.D.

University of Wyoming, 2013

Research Area/Activity: Soil Ecology, Restoration, Reclamation, Monitoring of Degraded Soils

### R. Jay Goos, Ph.D.

Colorado State University, 1980

Research Area/Activity: Soil Fertility and Management/Fertilizer Management for Small Grains

### David G. Hopkins, Ph.D.

North Dakota State University, 1997

Research Area/Activity: Interactions Among Landscape, Soil Morphology, Soil Properties and Environmental Aspects of Land Use

### Abbey Wick, Ph.D.

University of Wyoming, 2007

Research Area/Activity: Soil Health in Agricultural and Range Lands; Mine Reclamation

## Adjunct Faculty

### Allan W. Cattnach, Ph.D.

University of Minnesota, 1979

Research Area/Activity: Soil Fertility, Sugar Beet Management

**Gary H. Halvorson, Ph.D.**

Oregon State University, 1979

Director of Agriculture, Sitting Bull College, Fort Yates, SD

**Mark Liebig, Ph.D.**

University of Nebraska, 1998

USDA-ARS Northern Great Plains Research Laboratory, Mandan, ND

Research Area/Activity: Soil Quality, Soil Carbon Dynamics, Greenhouse Gas Flux, Semiarid Agroecosystems

**Stephen D. Merrill, Ph.D.**

University of California, Riverside, 1976

USDA-ARS Northern Great Plains Research Laboratory, Mandan, N.D.

Research Area/Activity: Soil Erosion Processes; Crop Root Growth and Soil/Crop Hydrology; Mined Land Reclamation

**Jill Motschenbacher, Ph.D.**

University of Arkansas, 2012

North Dakota State University

Research Area/Activity: Soil Physics, Sustainable Cropping Systems

**Peter L. O'Brien, Ph.D.**

North Dakota State University, 2017

Research Area/Activity: Reclamation, Cover Crops, Soils Management

**Laura F. Overstreet Gentry, Ph.D.**

North Carolina State University, 2005

Assistant Professor, University of Illinois Urbana-Champaign

Research Area/Activity: Soil Fertility, Grain Crops, Bioenergy Crops, Crop Management, Environmental Systems

**Jimmie L. Richardson Ph.D.**

Iowa State University, 1974

Research Area/Activity: Soil Salinization, Soil Development in Wetlands, Hydrologic Patterns, Sedimentation

**James A. Staricka, Ph.D.**

University of Minnesota, 1990

Williston Research Extension Center,

Research Area/Activity: Soil and Water Conservation and Nutrient Use Efficiency in Dryland and Irrigated Crop Production

**Donald L. Tanaka, Ph.D.**

University of Nebraska, 1980

USDA-ARS Northern Great Plains Research Laboratory, Mandan, ND

Research Area/Activity: Dryland Integrated Agricultural Systems, Soil and Crop Ecological Interactions