

# Environmental and Conservation Sciences

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## Department Information

- **Program Director:**  
Craig Stockwell, Ph.D.
- **Department Location:**  
Biological Sciences, Stevens 119
- **Department Phone:**  
(701) 231-7717
- **Department Web Site:**  
[www.ndsu.edu/ecs/](http://www.ndsu.edu/ecs/) (<http://www.ndsu.edu/ecs/>)
- **Application Deadline:**  
International applications are due May 1 for fall semester and October 1 for spring semester. 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 79; IELTS 6.5; Duolingo 105

### **Bakr Aly Ahmed, Ph.D.**

Virginia Tech, 2001

Research Interests: Built Environment; Sustainable Architecture; Construction Technology; Urban Sustainability

### **Laura Aldrich-Wolfe, Ph.D.**

Cornell University, 2006

Research Interests: Restoration Ecology; Conservation Biology; Fungal Community Ecology

### **F. Adnan Akyuz, Ph.D.**

University of Missouri-Columbia, 1994

Research Interests: Applied Climatology and Microclimatology/Climate Based Agriculture

### **Allan C. Ashworth, Ph.D.**

University of Birmingham, 1969

Research Interests: Quaternary Paleoecology, Paleoclimatology

### **Achintya Bezbaruah, Ph.D.**

University of Nebraska-Lincoln, 2002

Research Interests: Nanomaterials for Pollution Control, Recalcitrant and Micro Pollutants, Contaminant Fate and Transport, Small Community Water and Wastewater Treatment, Environmental Sensors, Environmental Management

### **Julia Bowsher, Ph.D.**

Duke University, 2007

Research Interests: Evolutionary and Developmental Biology

### **Igathinathane Cannayen, Ph.D.**

Indian Institute of Technology, 1997

Research Interests: Biomass Harvest, Storage, Collection and Pre-Processing

### **Frank X.M. Casey, Ph.D.**

Iowa State University, 2000

Research Interests: Field and Laboratory Studies of Water Flow and Chemical Transport Processes

### **Amitava Chatterjee, Ph.D.**

University of Wyoming, 2007

Research Area/Activity: Soil Fertility Management, Greenhouse Gas Emissions

### **Xuefeng (Michael) Chu, Ph. D.**

University of California, Davis, 2002

Research Interests: Watershed Hydrologic and Environmental Modeling, Overland Flow and Infiltration, Integrated Modeling of Flow and Contaminant Transport

**Larry Cihacek, Ph.D.**

Iowa State University, 1979

Research Interests: Carbon Sequestration in Soils, Soil Physical Properties, Soil Management for Waste Disposal

**Dennis Cooley, Ph.D.**

University of Rochester, 1995

Research Interests: Ethics of Science

**Aaron Daigh, Ph.D.**

Iowa State University, 2013

Research Interests: Soil Physics, Transport in Soils, Soil Residue and Water Management, Crop Rotations, and Nutrient/Agrochemical/Industrial Byproduct Soil Amendment Impacts on Soil Physical Properties

**Stephanie Day, Ph.D.**

University of Minnesota, 2012

Research Interests: Fluvial Geomorphology, Slope Stability, Geospatial Sciences

**Edward (Shawn) DeKeyser, Ph.D.**

North Dakota State University, 2000

Research Interests: Wetland Ecology, Wetland Assessment and Monitoring, Invasive Species Ecology and Management, Native Prairie Restoration

**Anne Denton, Ph.D.**

University of Mainz, 1996

Research Interests: Data Mining, Bioinformatics, Scientific Informatics, Educational Technology, Model Building, Databases

**Thomas M. DeSutter, Ph.D.**

Kansas State University, 2004

Research Interest: Trace Gas Fluxes, Inorganic Soil Chemistry, Soil Environmental Conditions

**Ned Dochtermann, Ph.D.**

University of Nevada, Reno, 2009

Research Interests: Ecological and Evolutionary Causes and Consequences of Phenotypic Variation

**Paulo Flores, Ph.D.**

Federal University of Rio Grande do Sul, 2008

Research Interests: Precision Agriculture, Unmanned Aerial Systems; Imagery analyses

**Caley Gasch, Ph.D.**

University of Wyoming, 2013

Research Interests: Soil ecology; Restoration; Conservation

**Erin Gillam, Ph.D.**

University of Tennessee, 2007

Research Interests: Behavioral ecology of bats, ecological and evolutionary basis of behavior in all animal groups, behavioral, ecological, and evolutionary factors influence the structure of animal communication signals and wildlife ecology and conservation.

**Kendra Greenlee, Ph.D.**

Arizona State University-Tempe, 2004

Research interests: Environmental and respiratory physiology of insects; insect immunology.

**Timothy Greives, Ph.D.**

Indiana University, 2009

Research Interests: Physiology and Behavior of Animals in Response to Environmental Signals

**Ademola (Demmy) Hammed, Ph.D.**

International Islamic University, 2014

Research Interests: Biotechnology Engineering; Agricultural Bioproducts

**Jason Harmon, Ph.D.**

University of Minnesota, 2003

Research Interests: Environmental change; ecosystem services; population and community ecology

**Mark Harvey, Ph.D.**

University of Wyoming, 1986

Research Interests: American West, Environmental History, Public History

**Harlene Hatterman-Valenti, Ph.D.**

Iowa State University, 1993

Research Interests: High-Value Crop Production

**Robert R. Hearne, Ph.D.**

University of Minnesota, 1995

Research Interests: Economic Analysis of Emerging Environmental and Resource Issues in the Northern Great Plains

**Britt Heidinger, Ph.D.**

Indiana University, 2007

Research Interests: Physiological Ecology, Senescence, Stress Physiology

**David Hopkins, Ph.D.**

North Dakota State University, 1997

Research Interests: Soil Formation and Chemistry

**Tom Isern, Ph.D.**

Oklahoma State University, 1977

Research Interests: History of Agriculture, History of Great Plains

**Sivaguru Jayaraman, Ph.D.**

Tulane University, 2003

Research Interests: Photocatalysis, Photochemistry, Green Chemistry

**Xinhua Jia, Ph.D.**

University of Arizona, 2004

Research Interests: Evapotranspiration, Subsurface drainage and Water quality

**Dinesh Katti, Ph.D.**

University of Arizona, 1991

Research Interests: Geotechnical Engineering, Constitutive Modeling of Geologic Materials, Expansive Soils, Multiscale Modeling, Steered Molecular Dynamics, Computational Mechanics, Nanocomposite, and Bio-nanocomposites. Computational Biophysics

**Page Klug, Ph.D.**

Kansas State University, 2009

Research Interests: Human-wildlife Interactions; Ecology; Birds; Snakes

**Ben Laabs, Ph.D.**

University of Wisconsin, 1999

Research Interests: Quaternary Geology; Glacial Geology; Cosmogenic Nuclides; Paleoclimate; Surface Processes

**Trung Le, Ph.D.**

University of Minnesota, 2011

Research Interests: Hydraulics; Fluid Mechanics; Numerical Methods For Fluid-Structure Interaction

**Kenneth E. Lepper, Ph.D.**

Oklahoma State University, 2001

Research Interests: Quaternary Geology and Age Dating

**Wei Lin, Ph.D.**

State University of New York at Buffalo, 1992

Research Interests: Water and Wastewater Treatment, Hazardous Waste Management

**Zhulu Lin, Ph.D.**

University of Georgia, 2003

Research Interests: Surface and Subsurface Hydrology and Modeling, Soil and Water Resources Management, Environmental Systems Analysis, Risk Identifications and Assessment, Geostatistics and Spatial Statistics

**Guodong Liu, Ph.D.**

Hunan University, 2001

Research Interests: Synthesis of Novel Nanomaterials, Biosensors, Bioassays

**John McEvoy, Ph.D.**

University of Ulster Northern Ireland, 2002

Research Interests: Cryptosporidium Virulence Factors and Mechanisms of Pathogenesis

**Jennifer Momsen, Ph.D.**

Rutgers University, 2007

Research Interests: Biology Education, Systems Thinking in Introductory Biology, Visualization, Assessing the Cognitive Level of STEM Courses

**Bakr Mourad Aly Ahmed, Ph.D.**

Virginia Tech., 2001

Research Interests: Sustainability Indicators and Implementation, Carrying Capacity Measurements, Coastal Development, Built Environment and Natural Resources Conservation

**Jack Norland, Ph.D.**

North Dakota State University, 2008

Research Interests: Restoration Ecology, Application of Remote Sensing to Natural Resource Management, Study of Natural Resources Management Problems in a Socio-ecological Setting

**Nurun Nahar, Ph.D.**

North Dakota State University, 2017

Research Interests: Biomass Conversion; Bioprocess Engineering; Biofuels

**Peter Oduor, Ph.D.**

University of Missouri - Rolla, 2004

Research Interests: Geographic Information Systems, Groundwater Flow Modeling, Groundwater Contamination

**Marinus Otte, Ph.D.**

Vrije Universiteit, 1991

Research Interests: Wetland ecology, Biogeochemistry, Ecophysiology and Ecotoxicology

**Birgit Pruess, Ph.D.**

Ruhr- Universitat Bochum, 1991

Research Interest: Microbial Physiology and Gene Regulation

**Scott Pryor, Ph.D.**

Cornell University, 2005

Research Interests: Biofuel Production from Cellulosic Feedstocks, Biobased Chemicals and Materials, Bioprocess Engineering, Process Optimization, Solid State and Liquid Fermentation Systems

**Shafiqur Rahman, Ph.D.**

University of Manitoba, 2004

Research Interests: Animal Waste Management, Biosolids Management, Air Quality, Water Quality, Composting

**David A. Rider, Ph.D.**

Louisiana State University, 1988

Research Interests: Insect Systematics, Biodiversity

**David Ripplinger, Ph.D.**

North Dakota State University, 2012

Research Interests: Energy Transport; Agricultural Economics

**David C. Roberts, Ph.D.**

Oklahoma State University, 2009

Research Interests: Evaluation and Design of Economically Efficient Tools and Policies for Pollution Control, Economic Valuation of Environmental and Ecological Attributes Through Revealed and Stated Preference Methods, Valuation of Environmental Risk, and Low-Impact and Precision Agriculture

**Bernhardt Saini-Eidukat, Ph.D.**

University of Minnesota, 1991

Research Interests: Environmental Geochemistry, Igneous Petrology, Economic Geology

**Kalidas Shetty, Ph.D.**

University of Idaho, 1989

Research Interests: Plant Science; Agriculture; Food Science; Human Nutrition; Public Health

**Halis Simsek, Ph.D.**

North Dakota State University, 2012

Research Interests: Bioenvironmental Engineering

**Senay Simsek, Ph.D.**

North Dakota State University, 2012

Research Interests: Bioenvironmental Engineering; Carbohydrate Chemistry; Cereal Science; Food Science And Technology

**Todd Sirotiak, Ph.D.**

Iowa State University

Research Interests: Construction Process Improvement; Sustainability

**Matt Smith, Ph.D.**

University Of Arkansas, 2012

Research Interests: Morphology; Physiological Ecology

**Dean D. Steele, Ph.D.**

University of Minnesota, 1991

Research Interests: Irrigation and Environmental Engineering

**Craig A. Stockwell, Ph.D.**

University of Nevada, 1995

Research Interests: Conservation Biology, Evolutionary Ecology of Native Fishes, Human-Wildlife Interactions

**Linda Tackett, Ph.D.**

University of Southern California, 2014

Research Interests: Norian (and Mesozoic, generally) Paleocological, Taxonomic, and Environmental Dynamics

**Steve E. Travers, Ph.D.**

University of California, 1998

Research Interests: Plant Evolutionary Ecology

**Cheryl Wachenheim, Ph.D.**

Michigan State University, 1994

Research Interests: Eliciting Perceptions and Valuations from Consumers, Firms, Students and Other Stakeholders and Decision Makers

**Alexander Wagner, Ph.D.**

Oxford University, 1997

Research Interests: Lattice Boltzmann, Spinodal Decomposition, Viscoelasticity, Drop Deformation and Break-up in a Shear Flow, Wetting, Non-equilibrium Thermodynamics, Complex systems

**Scott Wood, Ph.D.**

Princeton University, 1985

Research Interests: Environmental Geochemistry, Radioactive Waste Disposal

**Brian D. Wisenden, Ph.D.**

University of Western Ontario, 1993

Research interests: Behavioral Ecology of Fishes, Chemical Ecology of Predator-Prey Interactions, Parental Care and Mating Systems