

Civil and Environmental Engineering

Department Information

- **Interim Department Chair:**
Xuefeng (Michael) Chu, Ph.D., F.EWRI
- **Graduate Program Coordinator:**
Kalpana Katti, Ph.D.
- **Department Location:**
201 Civil and Industrial Engineering Bldg.
- **Department Phone:**
(701) 231-7244
- **Department Web Site:**
www.ndsu.edu/cee/ (<http://www.ndsu.edu/cee/>)
- **Application Deadline:**
February 15 for fall admission; September 15 for spring admission
- **Credential Offered:**
Ph.D., M.S.
- **English Proficiency Requirements:**
TOEFL iBT 71, IELTS 6; Duolingo 100

Beena Ajmera, Ph.D.

Virginia Polytechnic Institute and State University, 2015

Research Interests: Geotechnical Earthquake Engineering, Static and Dynamic Behavior of Soils and Rocks, Static and Dynamic Laboratory Soil Testing, Fundamental Behavior of Geomaterials from Mineralogical and Chemical Analyses, Use of Recycled Materials in Soil Modification, Ground Improvement Techniques, Soil and Rock Slope Stability

Achintya N. Bezbaruah, Ph.D.

University of Nebraska-Lincoln, 2002

Research Interests: Environmental sensors, Recalcitrant and micro pollutants, Contaminant fate and transport, Small community water and wastewater treatment, Environmental management

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

Ying Huang, Ph.D.

Missouri University of Science & Technology, 2012

Research Interests: Structural Health Monitoring/Smart Structures for Transportation Infrastructure, Intelligent Transportation Systems, Applications of Adaptive and Smart Materials, Finite Element Modeling and Multi-Hazard Assessment and Mitigation

Syed Md Iskander, Ph.D.

Virginia Polytechnic Institute and State University, 2019

Research Interests: Sustainable Waste Management: Food Waste Treatment, Landfill Leachate Treatment, Environmental Health: Disinfection Byproducts, Antibiotic Resistance Genes, Microplastics, Water-Energy Nexus: Desalination, Membrane Fabrication, Advanced Oxidation, Environmental Biotechnology: Anaerobic Biotechnology, Bioelectrochemical Systems

Dinesh Katti, Ph.D., P.E.

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

Kalpana Katti, Ph.D.

(Graduate Coordinator)

University of Washington, 1996

Research Interests: Advanced Composites, Nanomaterials, Biomaterials, Biomimetics, Materials Characterization and Modeling, Analytical Electron Microscopy, and Microspectroscopy, Bone Tissue engineering

Trung B. Le, Ph.D.

University of Minnesota

Research Interests: Hydraulics, Fluid Mechanics, Numerical Methods for Fluid-Structure Interaction

Wei Lin, Ph.D.

State University of New York at Buffalo

Research Interests: Water and Wastewater Treatment, Hazardous Waste Management

Zhibin Lin, Ph.D., P.E.

University of Wisconsin, 2010

Research Interests: Advanced Materials, High-Performance, Resilient and Sustainable Bridge Systems, Structural Durability and Structural Health Monitoring in Bridges and Earthquake Engineering

Kelly Rusch, Ph.D., P.E.

Louisiana State University, 1992

Research Interests: Microbial System Design and Modeling, Biofuels and Bioproducts, Engineering Education Research, Aquaculture Engineering, and Water and Wastewater Treatment.

David R. Steward, Ph.D., P.E., PG, F.ASCE

University of Minnesota

Research Interests: Engineering Mathematical and Computational Methods, Groundwater Flow and Analysis, Interdisciplinary Water Resources: Water and Society

Wenjie Xia, Ph.D.

Northwestern University, 2016

Research Interests: Multiscale Modeling of Structural Materials, Polymer and Nanocomposites, Granular and Soft Matters, Bioinspired Materials, Mechanobiology, Computational Mechanics, Data-Enabled Design of Multifunctional Materials

Mijia Yang, Ph.D., P.E.

University of Akron, 2006

China University of Mining and Technology, 1999

Research Interests: Advanced Materials, Structural Assessment, Solid Mechanics

Ravi Kiran Yellavajjala, Ph.D., P.E.

University of Notre Dame, 2014

Research Interests: Experimental and Theoretical Mechanics, Constitutive Modeling of Materials, Numerical Methods, Sensitivity Analyses of Structural Response, Forensic Failure Analysis and Advanced Visualization Techniques.

Adjunct & Emeritus

Eakalak Khan, Ph.D. (adjunct)

University of California, Los Angeles, 1997

Research Interests: Water and Wastewater Quality, Water and Wastewater Treatment, and Storm Water and Non-point Source Pollution

Denver D. Tolliver, Ph.D. (adjunct)

Virginia Polytechnic University, 1989

Research Interests: Transportation, Planning and Economics

Robert Zimmerman, Ph.D. (adjunct)

North Dakota State University, 1991

Research Interests: Water and Wastewater Treatment, Solid Waste

G. Padmanabhan, Ph.D. (emeritus)

Purdue University, 1980

Research Interests: Stochastic Hydrology, Water Resource Systems, and Hydrologic Modeling