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

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**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  

**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

**Syeed Md Iskander, Ph.D.**  
Virginia Polytechnic Institute and State University, 2019  

**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

**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, FASCE**  
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  

**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