CHEMICAL AND BIOCHEMICAL ENGINEERING FACULTY AND RESEARCH INTERESTS

Muthanna Al-Dahhan (Professor and Chair), D.Sc., Washington University, St. Louis
Multiphase Reaction Engineering; Energy & Environmental Processes; Advanced Measurement & Computational Techniques

Baojun Bai (Associate Professor Joint Appointment with Petroleum Engineering), PhD, New Mexico Institute of Mining
Enhanced Oil Recovery Target, Conformance Control, Surfactants, Biosurfactants, Carbon Sequestration

Dipak Barua (Assistant Professor), PhD, North Carolina State University
Computational Systems Biology, Cell Signaling Systems

Sutapa Barua (Assistant Professor), PhD, Arizona State University
Nanoparticles for Uniform Drug Delivery, Early Detection of Cancer Cells, Treatment of Devastating Diseases

Hank Foley (Joint Appointment, University of Missouri-Columbia), PhD, Penn State University
Catalysis and Reaction Engineering

Daniel Forciniti (Professor), PhD, North Carolina State University
Bioseparations; Thermodynamics; Statistical Mechanics

Chang-Soo Kim (Associate Professor Joint Appointment with Electrical Engineering & Biological Sciences)
PhD, Kyungpook National University
Functional Integration and Structural Integration of Advanced Microsystems, BioSensors

Xinhua Liang (Assistant Professor), PhD, University of Colorado
Surface Science; Nanostructured Films & Devices; Catalysis & Reaction Engineering; Energy & Environmental Applications

Athanasios I. Liapis (Professor), PhD, ETH-Zurich
Transport Phenomena; Adsorption; Bioseparations; Chromatography and Electrochromatography; Chemical Reaction Engineering

Christi Patton Luks (Associate Teaching Professor), PhD, University of Tulsa
Engineering Education Pedagogy; Sustainable Engineering

Douglas K. Ludlow (Professor), PhD, Arizona State University
Surface Characterization of Adsorbents & Catalysts; Applications of Fractal Geometry to Surface Morphology

Parthasakha Neogi (Professor), PhD, Carnegie-Mellon University
Interfacial and Transport Phenomena

Joontaek Park (Assistant Professor), PhD, University of Florida
Dynamics & Rheology of Complex Fluids / Soft Matters

Fatemeh Rezaei (Assistant Professor), PhD, Monash University – Melbourne, Australia

Ali Rownaghi (Assistant Research Professor), PhD, University Putra - Malaysia
Sustainable Energy; Catalysis, Separations

Oliver C. Sitton (Associate Professor), PhD, Missouri S&T
Bioengineering

Joseph D. Smith (Laufer Endowed Energy Chair Professor), PhD, Brigham Young University
Multiphase Roasting Flows; Catalysis; Dynamic Simulation; Coal/Biomass Gasification

Jee-Ching Wang (Associate Professor), PhD, Penn State University
Molecular Simulations of Transport in Confined Systems; Molecular Properties of Materials

David Westenberg (Associate Professor Joint Appointment with Biological Sciences), PhD, University of CA - Los Angeles
Molecular Microbiology, Microbial Diversity, Microbial Physiology

Silviya Petrova Zustiak (Joint Appointment with St. Louis University), PhD, University of Maryland Baltimore County
Tissue Engineering, Synthetic Biomaterials