DREXEL UNIVERSITY CHEMICAL AND BIOLOGICAL ENGINEERING

BIOCHEMICAL ENGINEERING ELECTROCHEMICAL ENGINEERING ENERGY AND THE ENVIRONMENT MODELING AND SIMULATION POLYMER SCIENCE AND ENGINEERING

FACULTY

CAMERON F. ABRAMS

Department Head

PhD, University of California, Berkeley

Molecular simulations in biophysics and materials; Receptors for insulin and growth factors; HIV-1 envelope structure and function; thermoset polymers

NICOLAS J. ALVAREZ

PhD, Carnegie Mellon University

Optical Field Chromatography; Extensional rheology of novel polymers; interfacial transport phenomenon; Water-based lubrication

JASON B. BAXTER

PhD, University of California, Santa Barbara Solar cells; Semiconductor nanomaterials; Ultrafast spectroscopy

RICHARD A. CAIRNCROSS

PhD, University of Minnesota

Biodiesel production; Sustainable engineering; Systems for environmental monitoring; Ultralight aerodynamic structures

MEGAN A. CREIGHTON

PhD, Brown University

Nanotechnology; Surface and interfacial science;

Complex fluids; Green manufacturing

PETER E. DEAK

PhD, University of Notre Dame

Immunoengineering; bioengineering of innate immunity;

biomaterials for autoimmune diseases and transplantation;

nanotechnology for drug delivery

AARON T. FAFARMAN

PhD, Stanford University

Colloidal nanocrystals; Solution-processed solar cells; Electrical and spectroscopic characterization of

nanomaterials

JOSHUA LEQUIEU

PhD, University of Chicago

Modeling and simulation of soft materials; Polymer physics; Biophysics

MATTHEW A. MCDONALD

PhD, Georgia Institute of Technology

Separations; Crystallization; Machine learning for chemical processes; Flow chemistry and continuous manufacturing for pharmaceuticals

JOSHUA SNYDER

PhD, Johns Hopkins University

Electrocatalysis; Nanoporous nanostructures; Fuel cells; Batteries; Water electrolysis

MASOUD SOROUSH

PhD, University of Michigan

Systems engineering; Polymer reaction engineering; Polymer membranes; Renewable power generation and storage systems

MAUREEN TANG

PhD, University of California, Berkeley

Batteries; Catalysis; Electrochemical engineering; Energy storage and conversion; interfacial transport and reaction

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