FACULTY

James A. Dumesic
Kinetics and catalysis; surface chemistry; energy from renewable resources

Michael D. Graham
Fluid mechanics; complex fluids; microfluidics; applied and computational mathematics

George W. Huber
Heterogeneous catalysis; renewable fuels and chemicals; biomass and natural gas conversion

Daniel J. Klingenberg
Colloid science; complex fluids; suspension rheology

Thomas F. Kuech
Advanced materials processing; solid-state, electronic, and nanostructured materials; interface science; alternative energy materials

David M. Lynn
Soft materials; nanotechnology; polymers; biotechnology; drug delivery

Christos T. Maravelias
Production planning and scheduling; supply chain management; process synthesis; novel material discovery

Manos Mavrikakis
Thermodynamics; kinetics and catalysis; surface science; computational chemistry; fuel cells; sensors; nanoscience

Regina M. Murphy (Chair)
Biomedical engineering; protein-protein interactions; neurodegenerative disorders

Sean P. Palecek
Stem cell engineering; antimicrobial agents; cell signaling

Brian F. Pfleger
Synthetic biology; biotechnology; protein engineering; sustainable chemical production

Jennifer L. Reed
Systems biology; computational biology; metabolic engineering; microbial interactions

Thatcher W. Root
Green chemistry; renewable resources; catalysis; spectroscopy

Eric V. Shusta
Drug delivery; protein engineering; biopharmaceutical design

Ross E. Swaney
Process design, synthesis, modeling and optimization

Reid C. Van Lehn
Nano-bio interactions; soft materials; cell membranes; engineered nanomaterials; molecular simulation

John Yin
Systems biology; virus-cell interactions; immunology; microfluidics

Victor M. Zavala
Large-scale optimization; dynamics and control; energy systems

AFFILIATE FACULTY

Mark Etzel
Bioseparation processes; bioprocessing and food engineering; mass transfer

Ive Hermans
Sustainable chemistry and catalysis engineering

Philip Romero
Protein engineering; computational biology; high-throughput technology

James Schauer
Developing measurement and chemical characterization tools to quantitatively understand the origin and impacts of air pollution

Saverio Spagnolie
Fluid mechanics; soft matter; biophysics; applied mathematics; numerical methods

Ophelia Venturelli
Synthetic & systems biology; computational modeling; microbiome and human health

For more information, please contact:

Graduate Program Office
Dept. of Chemical & Biological Engineering
University of Wisconsin-Madison
1415 Engineering Drive
Madison, WI  53706-1607

gradrecruit@che.wisc.edu
Phone: 608/263-3138
www.che.wisc.edu

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