South Dakota School of Mines and Technology
Graduate Studies in Chemical and Biological Engineering

Faculty and Research Areas

**Kenneth M. Benjamin** (PhD, University of Michigan)
Molecular modeling, bioenergy, supercritical/ionic fluids

**Timothy M. Brenza** (PhD, Pennsylvania State University)
Drug delivery, nanomaterials, degradable polymers

**David J. Dixon** (PhD, University of Texas, Austin)
Supercritical fluids, membranes, biomass pretreatment

**Patrick C. Gilcrease** (PhD, Colorado State University)
Biomass conversion, fermentation, coal-bed biomethane

**Lori J. Groven** (PhD, SD School of Mines and Technology)
Combustion, energetic materials, nanomaterials

**Kevin R. Hadley** (PhD, Vanderbilt University)
Molecular modeling, nano-materials, pedagogy

**Todd J. Menkhaus** (PhD, Iowa State University)
Bioseparations, materials, membranes, biomass processing

**Jan A. Puszynski** (PhD, Inst. of Chem. Tech., Czech. Rep)
Nanotechnology, combustion synthesis, energetic materials

**David R. Salem** (PhD, University of Manchester, U.K.)
Polymers, bio/nano composites, p-s-p relationships

**Rajesh K. Sani** (PhD, Panjam University, India)
Bioremediation, metabolic engineering, biotechnology

**Rajesh V. Shende** (PhD, University of Mumbai, India)
Sustainable energy, nanomaterials, thin films, sensors

**Robb M. Winter** (PhD, University of Utah)
Polymer composites, nano-mechanics, surface engineering

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**M.S. and Ph.D. Degree Programs**
**Ph.D. stipends up to $32,000 per year**

Students have the opportunity to use state-of-the art research and learning spaces within the new $20MM Chemical and Biological Engineering Building. In addition many students work with well-equipped centers such as the Composites and Polymer Engineering Laboratory, CAPE (cape.sdsmt.edu), the Engineering and Mining Experiment Station, and the Direct Write Lab. Joint collaborations exist with Biomedical Engineering, Nanoscience and Nanoengineering, Materials Engineering and Science and many other programs on and off campus.

The surrounding Black Hills provide students many opportunities to balance their academic activities with hiking, biking, skiing, snowboarding, camping, hunting, fishing, spelunking, and rock climbing.

For more information, contact Dr. Todd J. Menkhaus
Phone 605-394-2422 Email: todd.menkhaus@sdsmt.edu
Or visit: http://che.sdsmt.edu

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SYRACUSE UNIVERSITY
BIOMEDICAL AND CHEMICAL ENGINEERING DEPARTMENT

**FACULTY:**
Rebecca A. Rader
Jesse Q. Bond
Katie D. Cadwell
Ruth Chen
Mandy Esch
Jeremy L. Gilbert
Julie M. Hasenwinkl
James H. Henderson
Ian Hosein
George C. Martin
Patrick T. Mather
Shikha Nangia
Dacheng Ren
Ashok S. Sangani
Pranav Soman
R. Sureshkumar
Lawrence L. Tavlarides
Angela L. Zachman

**RESEARCH AREAS:**
Biomaterials & Tissue Engineering
Catalysis & Reactor Engineering
Complex Fluids, Soft Matter & Rheology
Corrosion & Electrochemistry
Drug Delivery
Molecular Biotechnology
Multiscale Modeling
Nanotechnology
Sustainable Energy Production
Systems Biology
Metabolic Engineering

Syracuse University
Department of Biomedical and Chemical Engineering
Room 323 Link Hall
Syracuse, NY 13244-1240
315-443-1931
bmce.syr.edu

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