

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)

(Bio)Separations, water purification, biomass processing

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

Travis W. Walker (PhD, Stanford University)

Transport phenomena, rheology, complex fluids, soft solids

Robb M. Winter (PhD, University of Utah)

Polymer composites, nano-mechanics, surface engineering

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://cbe.sdsmt.edu>