CHEMICAL & MATERIALS ENGINEERING

Department Head: Joseph H. Holles¹

Associate Department Head: Paul K. Andersen

Professors Holles¹, Houston, Luo, Associate Professors
Andersen, Brewer, Manz, Martinez-Monteagudo Assistant
Professors Zhou Emeritus Professors Bhada, Ghassemi, Johnson, Mitchell,
Patton, Rockstraw¹ Professors of Practice DeLeon, Taylor

Research Interests:

P.K. Andersen (Ph.D., University of California, Berkeley) physicochemical hydrodynamics, nuclear chemical engineering, modeling and simulation, education and training; C.E. Brewer (Ph.D., Iowa State) biomass thermochemical processing, sustainable agriculture, biorenewable resources, brewery engineering; J.E. DeLeon (Ph.D., Iowa State) polymer material composites; J.H. Holles (Ph.D., Virginia) heterogeneous catalysis, structure/property relationships in catalysis, pseudomorphic overlayer bimetallic catalysts, research preparation for undergraduate and graduate students; J. P. Houston (Ph.D., Texas A&M) biomedical engineering, biophotonics, flow cytometry; H. Luo (Ph.D., Tulane) nanostructured materials, thin films, photovoltaics, batteries, electrocatalysts, photocatalysts; T.A. Manz (Ph.D., Purdue) quantum chemistry simulations of materials, catalysis, and space physics; S. Martinez-Monteagudo (Ph.D., University of Alberta, Canada) food engineering, valorization of byproduct streams, synthesis of sweeteners, and green extraction methods; S. Taylor (Ph.D., Clemson) synthesis and characterization of materials, brewing, food processing; M. Zhou (Ph.D., New Mexico State) hydrogen production, CO2 reduction, fuel cell and solar cell.

Registered Professional Engineer