

## Research Personnel

**Analytical Chemistry**

David Battiste, Ph.D.  
Analysis and synthesis of insect pheromones and lures; MNR, IR, GC, GC/MS, LC/MS, Raman, NIR

Jason Coym, Ph.D.  
Fundamentals and applications of liquid chromatography

Alexandra Stenson, Ph.D.  
Analytical characterizations: HPLC, mass spectroscopy, characterization of humic substances

**Biochemistry**

Larry Yet, Ph.D.  
Drug discovery, medicinal chemistry, cross-coupling methodologies

**Organic Chemistry**

David Forbes, Ph.D.  
Synthetic methodology: Natural product synthesis; Asymmetric catalysis

Christian Oertli, Ph.D.  
Effects of non-classical Energy forms (Microwave and Ultrasound) on organic reactions.

**Inorganic Chemistry**

Milorad Stojanovic, Ph.D.  
Synthesis, characterization and NMR studies of Organometallic Compounds

Richard Sykora, Ph.D.  
Lanthanide and actinide chemistry; X-ray diffraction

**Materials Chemistry**

James Davis, Ph.D.  
Ionic liquids in separations & catalysis, greenhouse gas capture; biorenewable hydrocarbon resources

Richard O'Brien, Ph.D.  
Ionic liquids; Thiol-ene chemistry; PTC; polymer supports

Matthew Reichert, Ph.D.  
Ionic liquid properties – thermal behavior and applications including biomass processing

**Computational Chemistry**

E. Alan Salter, Ph.D.  
Enzyme-inhibitor interactions

Andrzej Wierzbicki, Ph.D.  
Computational modeling; regulation of crystal growth by absorbed molecules

**Medicinal Chemistry****Physical Chemistry**Collaborations/Resources  
Internal & External

UCUR

ETOX Program

Pheromone Center

Departmental Honors

University Honors

Center for Environmental Resiliency

**Equipment/ Instrumentation**

- NMR
- Liquid Chromatography Mass Spectrometer
- Diffractometer
- Microwave Plasma Atomic Emission Spectrometer

<http://www.southalabama.edu/colleges/artsandsci/chemistry/resources/Instrumentation>