The Faculty and their research updated September, 2016

Orlando Acevedo, Ph.D. (Computational Chemistry): Computational chemistry, solvent effects, ionic liquids, drug discovery, and software design.

Leonidas Bachas, Ph.D. (Bioanalytical Chemistry): Nanoscience in Toxicology, Electrochemical Optical Sensors, Microfabricated Analytical Systems, Engineered Bioactive Interfaces.

Burjor Captain, Ph.D. (Inorganic Chemistry): Organometallic Synthesis, Metal Cluster Chemistry, Catalysis, X-ray Crystallography.

Thomas K. Harris, Ph.D. (Biophysical Chemistry): NMR and kinetic studies of enzyme mechanisms, with particular interest in signaling enzymes that mediate hormonal responses through the phosphoinositide cascade.

Carl Hoff, Ph.D. (Inorganic Chemistry): Physical studies of inorganic, organometallic, and bioinorganic compounds important in catalysis, metal/sulfur/hydrogen chemistry related to industrial and enzymatic processes.

Angel Kaifer, Ph.D. (Physical Chemistry): Physical organic chemistry and electrochemistry of self-assembling systems and molecular capsules. Supramolecular electrochemistry."

Marc Knecht, Ph.D. (Materials Chemistry): Biological Chemistry, Nanochemistry.

Roger Leblanc, Ph.D. (Physical Chemistry): Biosensing of troponin I related to hearth attack. Bosensing of alpha-fucosidase which is a biomarquer for breast and kidney cancers. Biophysical properties of graphene oxide.

Nita Lewis, Ph.D. (Inorganic Chemistry): Synthesis and studies of bio-wires for use in nanotechnology.

Jean-Hubert Olivier, Ph.D. (Supramolecular Chemistry): Supramolecular chemistry, photochemistry, non-equilibrium electronic materials, energy capture and conversion, nanoscience.

Rajeev Prabhakar, Ph.D. (Physical Chemistry): Computational and theoretical approaches to the investigation of enzymatic and non-enzymatic reaction mechanisms, neurodegenerative disorder research, water oxidation, peptide aggregation, protein-protein interactions and drug designing.

V. Ramamurthy, Ph.D. (Organic Chemistry): Organic photochemistry, solid-state chemistry, and supramolecular chemistry.

Françisco Raymo, Ph.D. (Organic Chemistry): Design and synthesis of photoswitchable fluorescent probes for imaging applications.

Amy M. Scott, Ph.D. (Physical Chemistry): Experimental physical chemistry lab that studies the kinetics of solar energy conversion. Through the use of time-resolved laser spectroscopy, we examine the fundamental processes in the transduction of photon energy to chemical and electrical energy in organic photovoltaics, artificial photosynthesis, and quantum dots.

Jamie D. Walls, PhD (Physical Chemistry): Nuclear Magnetic Resonance (NMR): theory, application, and methodology development of NMR. Theoretical Chemistry.

James Wilson, Ph.D. (Organic Chemistry): Organic and bio-organic chemistry, fluorescent analogs of biomolecules, optical spectroscopy, fluorescence microscopy.