

Dmitri Babikov (dmitri.babikov@mu.edu; 414-288-3538)

- *Quantum Origin of Anomalous Isotope Effect in Ozone Formation*
- *Mixed Quantum/Classical Theory for Collisional Energy Transfer*
- *Computational Study of Vibrational Qubits in Ion Traps*

Chris Dockendorff (christopher.dockendorff@mu.edu; 414-288-1617)

- *Teaching Old Targets New Tricks: New Strategies for the Modulation of Important Membrane Proteins for Drug Discovery*
- *Serendipity by Design: Hybrid Catalysts for Asymmetric Carbon-Carbon Bond Formation*

William Donaldson (william.donaldson@mu.edu; 414-288-7374)

- *Design and Synthesis of Selective Small-Molecule Agonists for Estrogen Receptor Beta and Biological Evaluation for Memory Consolidation*
- *Generation of Molecular Complexity from Cyclooctatetraene*

Adam Fiedler (adam.fiedler@mu.edu; 414-288-7191)

- *Synthetic Chemistry Relevant to Nonheme Iron Dioxygenases Involved in Bioremediation*

James Gardinier (james.gardinier@mu.edu; 414-288-3533)

- *Electronic Communication in Mono- and Bimetallic Pincer Complexes and Their Assemblies*

Richard Holz (richard.holz@mu.edu; 414-288-7230)

- *Biosynthesis, Metal Cofactor Selection, and Reactivity of Nitrile Hydratases*
- *New Antibacterial Drug Target: Analyzing Inhibitor Binding to a Bacterial Metallohydrolase*

Jier Huang (jier.huang@mu.edu; 414-288-3537)

- *Structure-Function Analyses of photocatalytic hybrid materials for solar energy conversion*

James Kincaid (james.kincaid@mu.edu; 2414-88-3539)

- *Looking at Fleeting Intermediates in the Reaction Cycles of Heme Proteins*

Evgueni Kovriguine (evgueni.kovriguine@mu.edu; 414-288-7859)

- *Protein structure and dynamics in solutions and at the phospholipid membranes*

Rajendra Rathore (rajendra.rathore@mu.edu; 414-288-2076)

- *Electronic Communication Through Cofacially-Arrayed Polybenzenoid Molecular Wires*

Scott Reid (scott.reid@mu.edu; 414-288-7565)

- *Hole and Exciton Delocalization in Model π -stacked Assemblies*
- *Roaming Halogen Radicals*
- *Flipping the General Chemistry Classroom*

Nick Reiter (nicholas.reiter@mu.edu; 414-288-5701)

- *Structure and Conformational Dynamics of a Catalytic RNA and its RNA-protein Interface*
- *Molecular Recognition of RNA by Chromatin-Associated Protein Enzymes*

Qadir Timerghazin (qadir.timerghazin@mu.edu; 414-288-5779)

- *S-Nitrosothiols: From Electronic Structure to Biological Function*

Chieu Tran (chieu.tran@mu.edu; 414-288-5428)

- *Analytical Applications of Room Temperature Ionic Liquids*
- *Supramolecular Polysaccharide Composite Materials: Recyclable Synthesis and Applications*

Chae Yi (chae.yi@mu.edu; 414-288-3536)

- *Synthetic and Mechanistic Study of the Ruthenium-Catalyzed Dehydrative C-H Coupling Reactions*