

PROGRAM
5th Annual Graduate Research Symposium
May 16, 2006
Moos Tower

	Concurrent Sessions		
Start time	Session A Room 2-530	Session B Room 2-620	Session C Room 2-650
8:30 am	<i>Registration, Continental Breakfast</i>		
9:15 am	<i>Opening remarks, Professor Jeffrey Roberts, Room 2-620</i>		
9:30 am	Nicholas Denny	Feng Shao	Galen Sedo
10:00 am	Yingtao Lu	Jasmine Erbs	Zhiyong Wang
10:30 am	<i>Coffee Break</i>		
10:45 am	Neeraj Rai	Benjamin Kucera	Adam Chamberlin
11:15 am	Bong Soo Kim	Erin Dahlke	Paul Boswell
11:45 am	Ying Chen	Neil Graf	Renee Mosing
12:15 pm	<i>LUNCH</i>		
1:15 pm	Alicia Peterson	Joseph Scanlon	Robert Jilek
1:45 pm	Yang Deng	Adam Moser	Junha Jeon
2:15 pm	<i>Coffee Break</i>		
2:30 pm	Betsy Edhlund	Aaron May	Brandie Kovaleski
3:00 pm	Jessica Nielson	Kin-Yiu Wong	Jonathan Frisch
3:30 pm		Nathaniel Traaseth	
4:15 pm	<i>Award Presentations, Closing Remarks, SNACKS</i>		

Alphabetical List of Presenters

- Boswell, Paul** *Novel Ionophore Based Sensor Design with Perfluorinated Matrixes for Enhanced Robustness and Selectivity*, 11:15 am – 11:45 am, room 2-650
- Chamberlin, Adam** *Computing Free Energies of Solvation as a Function of Temperature Using an Implicit Solvation Model*, 10:45 am – 11:15 am, room 2-650
- Chen, Ying** *Core Cross-linked Micelles: Tools for Stabilizing and Functionalizing Au Nanoparticles*, 11:45 am – 12:15 pm, room 2-530
- Dahlke, Erin** *Computational Challenges in the Simulation of Water and Ice: the Motivation for an Improved Description of Water-Water Interactions*, 11:15 am – 11:45 am, room 2-620
- Deng, Yang** *A Nano-Tumbleweed: Breaking Covalent Bonds from Noncovalent Interactions*, 1:45 pm – 2:15 pm, room 2-530
- Denny, Nicholas** *Synthesis and Characterization of 3-Dimensionally Ordered Macroporous Tungsten for use in Solid-State Lighting*, 9:30 am – 10:00 am, room 2-530
- Edhlund, Betsy** *Aquatic Photochemistry of Nitrofurans Antibiotics*, 2:30 pm – 3:00 pm, room 2-530
- Erbs, Jasmine** *The Effects of Arsenic Doping on Ferrihydrite Reactivity*, 10:00 am – 10:30 am, room 2-620
- Frisch, Jonathan** *Bridge Effects on Nonheme Diiron(II)/O₂ Reactivity*, 3:00 pm – 3:30 pm, room 2-650
- Graf, Neil** *Fabrication of a Peristaltic Micropump for Direct-Sampling CE-LIF Neuroscience Experiments*, 11:45 am – 12:15 pm, room 2-620
- Jeon, Junha** *Constitutional Selectivity via the Sequencing of Three-Component Olefin Metathesis: Total Synthesis of Either (+)-Gigantecin or 14-Deoxy-9-oxygigantecin*, 1:45 pm – 2:15 pm, room 2-650
- Jilek, Robert** *Synthesis and Chemistry of Tris(eta-4-naphthalene)hafnate(2-), the First Polyaromatic Hydrocarbon Complex of Hafnium*, 1:15 pm – 1:45 pm, room 2-650
- Kim, Bong Soo** *Correlation between Charge Transport and Electronic Structure in Aromatic Molecular Junctions*, 10:00 am – 10:30 am, room 2-530
- Kovaleski, Brandie** *Interaction between HIV-1 GAG and Human Lysyl-tRNA Synthetase: A Target for Anti-retroviral Therapy*, 2:30 pm – 3:00 pm, room 2-650

- Kucera, Benjamin** *Synthesis and Reactivity of Low-Valent Vanadium and Niobium Complexes: Functioning as Sources of “Naked” Metal Atom Reagents*, 10:45 am – 11:15 am, room 2-620
- Lu, Yingtao** *Assignment of Absolute Stereochemistry and Total Synthesis of Spongidepsin 2*, 11:15 am – 11:45 am, room 2-530
- May, Aaron** *A Lyngbyaloside B and Lyngbouilloside Model System for Acylketene Macrolactone*, 2:30 pm – 3:00 pm, room 2-620
- Moser, Adam** *Solvation of Phosphoric Acid and its Anions using Implicit, Explicit, and Polarizable Models*, 1:45 pm – 2:15 pm, room 2-620
- Mosing, Renee** *Using Capillary Electrophoresis-SELEX for the Selection of ssDNA Aptamers with Affinity for HIVRT*, 11:45 am – 12:15 pm, room 2-650
- Nielson, Jessica** *Progress Toward the Total Synthesis of Nankakurine A*, 3:00 pm – 3:30 pm, room 2-530
- Peterson, Alicia** *Rhodium Catalyzed Selective Defluorination and Dechlorination Reactions*, 1:15 pm – 1:45 pm, room 2-530
- Rai, Neeraj** *Extending Transferable Potentials for Phase Equilibria Force Field to Aromatic Heterocycles*, 10:45 am – 11:15 am, room 2-530
- Scanlon, Joseph** *Theoretical Investigation of the Reduction of (Chlorovinyl)cobaloxime Complexes and the Effects of Substitution at the Pyridine Ligand*, 1:15 pm – 1:45 pm, room 2-620
- Sedo, Galen** *Spectroscopic Studies of Gas-Phase Reactive Systems*, 9:30 am – 10:00 am, room 2-650
- Shao, Feng** *Synthetic Studies of Two Key Components of the Sea Lamprey Migratory Pheromone: PADS and PSDS*, 9:30 am – 10:00 am, room 2-620
- Traaseth, Nathaniel** *Structure, Dynamics, and Interactions between Membrane Proteins by NMR Spectroscopy*, 3:30 pm – 4:00 pm, room 2-620
- Wang, Zhiyong** *Monolithic Carbon-carbon Nanocomposites Designed around Inverse Opal Structures with Hierarchical Porosity*, 10:00 am – 10:30 am, room 2-650
- Wong, Kin-Yiu** *Molecular Dynamics Simulations of the Hydrolysis of Paraoxon by Phosphotriesterase using Combined Quantum Mechanical and Molecular Mechanical Potentials*, 3:00 pm – 3:30 pm, room 2-620