



Ohio Inorganic Weekend 2008

Poster Presentations: Nov. 7, 2008 (7-9 PM; Wolfe Hall Lobby)

Ultrafast Transient Absorption Spectroscopy of Pt(II) Complexes with Solvent Dependent Excited State Configurations

Elena A. Glik, Evgeny Danilov, Sébastien Goeb, Aaron A. Rachford, and Felix N. Castellano*; Bowling Green State University

Microarray Pattern Recognition of VOCs Based on Platinum(II) Terpyridyl Chloride Salts

Maria L. Muro, Charles A. Daws, and Felix N. Castellano*; Bowling Green State University

Heteroleptic Terpyridine Dye-Sensitizers for Application in Dye-Sensitized Solar Cells

Anthony C. Onicha and Felix N. Castellano*; Bowling Green State University

Microwave-Assisted Preparation of Ru(II) Complexes used as Sensitizers in Dye Sensitized Solar Cells

Yali Sun and Felix N. Castellano*; Bowling Green State University

Photocatalytic Hydrogen Generation From Water Using TiO₂ Nanotubes

Xianghuai Wang, Wei Zhao and Felix N. Castellano*; Bowling Green State University

Thermodynamics of Metal Binding to *de novo* Designed Protein Scaffolds

Alex Bludin and Michael Y. Ogawa*; Bowling Green State University

Effect of Metallopeptide Structure on the Photo-Induced Electron Transfer

Jiufeng Fan and Michael Y. Ogawa*; Bowling Green State University

Self-Assembly of a *de novo* Designed Peptide into Nanofibers by Metal Co-coordination

Madhumita Mukherjee and Michael Y. Ogawa*; Bowling Green State University

Structural and Photophysical Studies of the Cu-Containing Metallopeptide

Daniil V. Zaytsev and Michael Y. Ogawa*; Bowling Green State University

Ultrafast Dynamics of Hexabromoplatinate Complex in Water

Igor L. Zheldakov, Mikhail Ryasantsev, and Alexander N. Tarnovsky*; Bowling Green State University

meta-Terphenyl Protected Phosphaalkenes: Synthesis, Photochemistry and Effect of Electroactive Groups

Vittal Babu Gudimetla, Marlena P. Washington, and John D. Protasiewicz*; Case Western Reserve University

Electron-Withdrawing Effects on a Regioselective Template Reaction

Kurtis J. Remmel, Derek A. Pullum, and Richard P. Hotz*; College of Mount St. Joseph

Kinetics of the Ligand Exchange Reaction Between Ni(tetren)²⁺ and Bipyridine

Larry Kolopajlo* and Nekuma Hollis; Eastern Michigan University

Synthesis and Purification of a Fluorogenic Reagent Used in a Spectrofluorimetric Copper Assay
Kimberly Kern, Catherine Miller*, and Michael Nichols*; John Carroll University

Part I: The Synthesis and Characterization of Vanadium Neopentoxide and its Derivatives. Part II: A Study of Phosphate Bridged Transition Metals
Christopher B. Durr and Scott D. Bunge*; Kent State University

The Effect of a Series of Lanthanide Complexes on an Intramolecular Hydroalkoxylation
Thomas Janini and Scott D. Bunge*; Kent State University

Synthesis and Structural Characterization of Dinuclear and Trinuclear Transition Metal Benzamidinate Complexes
Brian C. Manor and Scott D. Bunge*; Kent State University

A Structurally Characterized Series of 1,1,3,3-Tetramethylguanidine Solvated Magnesium Aryloxide Complexes
Jessie D. Monegan and Scott D. Bunge*; Kent State University

A Synthetic and Theoretical Investigation of Cyclic Multinuclear Group 11 Guanidinate Complexes
Jesus A. Ocana and Scott D. Bunge*; Kent State University

Cyclization of Alkynyl Alcohols Using Lanthanide Aryloxide Catalysts
Robert Rakosi and Scott D. Bunge*; Kent State University

Luminescence From Chloro(2,2':6',2''-terpyridine)platinum(II) in Aqueous Micelles
Natalie A. Larew and Scott Cummings*; Kenyon College

Luminescence from Dimers of Chloro(2,2':6',2''-terpyridine)platinum(II) in Aqueous Solution
Abigail R. Van Wassen and Scott Cummings*; Kenyon College

Synthesis of a Low Energy Molecular Switch
Tod A. Grusenmeyer and Jeffrey J. Rack*; Ohio University

Photophysics of Dimolybdenum Amidates
Brian Alberding and Malcolm Chisholm*; The Ohio State University

Polycarbonates From Renewable Resources
C. Chatterjee, R. McIntosh, and Malcolm Chisholm*; The Ohio State University

Multiple Bond Metathesis Involving Molybdenum, Tungsten, Carbon and Nitrogen
Shentan Chen and Malcolm Chisholm*; The Ohio State University

Quadruply Bonded Dimetal Complexes Supported by Ethynylarylcarboxylates
Carly Reed and Malcolm Chisholm*; The Ohio State University

Extended Structures With Isocarbonyl Linkages: $M(sol)_x[CoRu_3(CO)_{13}]$
Christopher M. Potratz, Xuenian Chen, Edward A. Meyers, and Sheldon G. Shore*; The Ohio State University

Cyanide Bridged Alkaline Earth Transition Metal Complexes: Structures and Application
Matthew R. Sturgeon, Errun Ding, Sheldon G. Shore*, and Mark Keane; The Ohio State University

Metallocene and Lanthanide Coordination Compounds Containing Amidotrihydroborate ($NH_2BH_3^-$)
Duane C. Wilson, Christopher M. Potratz, Xuenian Chen, Edward A. Meyers, and Sheldon G. Shore*; The Ohio State University

Use of Group 6 Carbonyl Reagents to Stabilize Main Group Cationic Species
Joanna Beres Alyson Leigh, Chrys Wesdemiotis, and Claire A. Tessier*; University of Akron

A Study on the Effect of Additives on the Synthesis of Chlorophosphazenes
Alexandria Johnson and Claire A. Tessier*; University of Akron

The Involvement of Strong or Super Acids in the Chemistry of Chlorophosphazenes
Zin-Min Tun Amy J. Heston, Matthew J. Panzner, Doug Medvetz, Debasish Banerjee, Deepa Savant, Peter Rinaldi, Wiley J. Youngs, and Claire A. Tessier*; University of Akron

Poly(organophosphazenes) With Azolyphenoxy Side Groups for Use in Fuel Cells
Sujeewani Ekanayake, Supat Moolsin, Matthew J. Panzner, Claire A. Tessier, and Wiley J. Youngs*; University of Akron

Delivery of Silver Antimicrobial Therapeutics Using Biodegradable Polymeric Nanoparticles and Microspheres
Amanda R. Knapp¹, Nikki Robishaw¹, Matthew J. Panzner¹, Khadijah Hindi¹, Andrew Ditto¹, Doug A. Medvetz¹, Brian Wright¹, Michael DeBlock¹, Carolyn Cannon², Yang H. Yun¹, Jeff Leid³, D. Mark Estes⁴, Claire Tessier¹, and Wiley J. Youngs^{*1}; ¹University of Akron, ²Washington University School of Medicine, ³Northern Arizona University, ⁴University of Texas Medical Branch, Galveston

Antitumor Activity of Ag(I) N-Heterocyclic Carbene Complexes and Nanoparticle Encapsulation
Nikki Robishaw, Doug A. Medvetz, Khadijah Hindi, Matthew J. Panzner, Andrew Ditto, Yang H. Yun, and Wiley J. Youngs*; University of Akron

Evaluating the Toxicity of a $\text{Re}(\text{CO})_3^+$ Complex Using Cell Lines
Sarah Robenstine^b, Natalie V. Barone^b, Richard S. Herrick^a and Christopher J. Ziegler^{*b};
^a College of the Holy Cross, Worcester, MA ^b University of Akron

Synthesis, Spectroscopic Characterization and Crystal Structure of Dioxime and Pyridine-2-aldoxime Complexes of $\text{Re}(\text{CO})_3^+$
Roshinee Costa^b, Natalie V. Barone^b, Richard S. Herrick^a and Christopher J. Ziegler^{*b};
^a College of the Holy Cross, Worcester, MA ^b University of Akron

The Synthesis of $\text{Re}(\text{CO})_3^+$ -Amino Acid Conjugates Using 2-Pyridine Carboxyaldehyde
Hira Qayyum and Christopher J. Ziegler*; University of Akron

Reactions of Electrochemically Generated Platinum(IV) and Palladium(IV) Complexes with Multi-Electron Substrates
Kumudu Madduma-Liyanage and William B. Connick*; University of Cincinnati

Synthesis and Characterization of a Luminescent Platinum(II) Phenylacetylide Complex
Vikas Shingade and William B. Connick*; University of Cincinnati

Synthesis and Characterization of Platinum(II) Complexes with Pincer Ligands
Daoli Zhao and William B. Connick*; University of Cincinnati

Umpolung of α,α -Unsaturated Imines: Synthesis, Structure and Reactivity of Azazirconacyclopentenes
Jie Zhang, Jeanette A. Krause and Hairong Guan*; University of Cincinnati

Effects of Covalently Bound N-Donor Ligands on Synthetic Models of NorBC
Tim Berto and Nicolai Lehnert*; University of Michigan

Characterization of High-Spin and Low-Spin Fe(III) in Cytochrome P450 and Mutants Using Magnetic Circular Dichroism Spectroscopy

Mary Grace I. Galinato, Tatyana Spolitak, David P. Ballou, and Nicolai Lehnert*; University of Michigan

Synthesis of Biologically Relevant Iron Sulfur Clusters

Deidra Gerlach, Dimitri Coucouvanis, and Nicolai Lehnert*; University of Michigan

Ferric Bis-Picket Fence Porphyrin Nitrosyls as Synthetic Models of P450_{nor}

Lauren Goodrich and Nicolai Lehnert*; University of Michigan

Ruthenium Nitrosyls: Synthesis, Characterization and Photolabilization

Anna Merkle and Nicolai Lehnert*; University of Michigan

Molecular Phosphates, Phosphonates, and Phosphinates of Aluminum and Gallium

Ryan Rondo, Mark Matthews, Vira Ponomarova, and Mark R. Mason*; University of Toledo

Bidentate, Tridentate, and Bridging Coordination Modes For Indolyl Based Complexes of Aluminum and Gallium

Nick Kingsley, Bassam Fneich, Anirban Das, Kristen Kirschbaum, and Mark R. Mason*; University of Toledo

Chemical Bonding in Energetic RDX: An Experimental and Theoretical Study

Vladimir Zhurov, Elizabeth Zhurova, and A. Alan Pinkerton*; University of Toledo

Orthometallated Acetophenone Imines as Ligands For Early Transition and Main Group Metals: Isolation and Characterization

John Beck and Joseph A. R. Schmidt*; University of Toledo

Functionalized Calix[4]arenes as Ligands For the Design of Lanthanide and Actinide Hydroamination Catalysts

Andrew C. Behrle^a, Matthew P. Hertel^a, Samantha A. Williams^b, Jordan L. Fantini^b, and Joseph A. R. Schmidt^{a*}; ^aUniversity of Toledo; ^bDenison University

Synthesis and Characterization of New Niobium and Tantalum Complexes with Orthometallated Acetophenone Imine Type Ligands

Abdollah Neshat, Cheryl L. Seambos, and Joseph A. R. Schmidt*; University of Toledo

Luminescence Decay Study of Water Tolerant Lanthanide Triflates

Prabani Dissanayake and Matthew J. Allen*; Wayne State University

Stable Eu(II) Complexes For Use as Contrast Agents in High Field Magnetic Resonance Imaging

Nipuni Gamage and Matthew J. Allen*; Wayne State University

Activatable Zero-Background Contrast Agents For MRI

Jeremy Moore, Stephanie Neal, Holliness Nose and Matthew J. Allen*; Wayne State University

Fine-Tuning the Redox-Cyclability of Asymmetrical Trivalent Iron and Cobalt Complexes as Prototypes for Molecular Switches

Marco M. Allard and Claudio N. Verani*; Wayne State University

Cobalt and Copper-Containing Surfactants as Precursors for Langmuir-Blodgett Films

Sarmad Sahiel Hindo, Rajendra Shakya, Libo Wu, Sandro R. P. da Rocha, and Claudio N. Verani; Wayne State University

Langmuir-Blodgett Film Formation of Nickel, Cobalt and Zinc Containing Metallo-Amphiphiles

Rama Shanmugam and Claudio N. Verani*; Wayne State University

