



Friday, October 29, 2010
Poster Presentations

Physics Research Atrium
7:00 – 9:00PM

No.	Research Title	Presenter	School	Advisor
1.	Reinvestigation of some chlorophosphazene syntheses	David Bowers	University of Akron	Claire A. Tessier
2.	The reaction of chlorophosphazenes with HMPA	Joanna Beres	University of Akron	Claire A. Tessier
3.	The reaction of chlorophosphazenes with Group 15 Lewis acids	Zin-Min Tun	University of Akron	Claire A. Tessier
4.	Phthalocrowns: New Macrocycles for Metal Binding	Ingrid-Suzy Tamgho	University of Akron	Christopher J. Ziegler
5.	Photophysical and Thermochromic Behavior of Dinuclear Cyclometallated Platinum(II) Complexes	Arnab Chakraborty	Bowling Green State University	Felix Nicholas Castellano
6.	Supermolecule-sensitized Near-Infrared-to-Visible Photon Upconversion	Fan Deng	Bowling Green State University	Felix Nicholas Castellano
7.	TiO ₂ /CoPi: Towards an Efficient Photocatalytic Water Oxidation Catalyst	Rony S. Khnayzer	Bowling Green State University	Felix Nicholas Castellano
8.	Synthesis and Solvent- Dependent Photophysical Properties of Platinum Oligo(m-Phenylene Ethynylene)s	Valentina Prusakova	Bowling Green State University	Felix Nicholas Castellano
9.	A Hybrid Lithium Oxalate-Phosphinate Salt	Andrew R. Shaffer	Case Western Reserve University	John Protasiewicz
10.	Reactions between Pd(phpy)(tacn) ⁺ and chemical oxidants	Allison Muldoon	University of Cincinnati	William B. Connick
11.	Chemical oxidation of an outer-sphere two-electron transfer reagent using Ruthenium complexes as oxidants	Amie Norton	University of Cincinnati	William B. Connick
12.	Catalytic Reduction of Carbon Dioxide with Nickel Pincer Complexes	Hairong Guan	University of Cincinnati	Hairong Guan
13.	Novel Light-responsive Iron Chelates	Mark Shelton	University of Cincinnati	Michael J. Baldwin
14.	Iron POCOP Pincer Complexes: Promising Catalysts for the Dehydrogenation of Ammonia-Borane and the Activation of Silanes	Papri Bhattacharya	University of Cincinnati	Hairong Guan
15.	SCrALS: Challenging Samples, Straightforward Solution	Jeanette Krause	University of Cincinnati	Jeanette Krause
16.	Catalytic Release of Hydrogen from Formic Acid Using Highly Efficient Pincer Nickel Hydride/Formate Complexes	Sumit Chakraborty	University of Cincinnati	Hairong Guan
17.	Development of Porphyrin Catalysts for the Oxidative Depolymerization of Lignin in Ionic Liquid Solvents	Andrew Sharits	Eastern Kentucky University	Laurel A. Morton
18.	Synthesis and Characterization of Low-Coordinate Lanthanide Guanidinate Complexes	Kristin A. Gore	Kent State University	Scott D Bunge
19.	Group 11 Guanidinate Clusters: A Synthetic and Structural Investigation	Sonya K. Adas	Kent State University	Scott D Bunge



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20.	A Structurally Characterized Series of Guanidine Solvated Zinc Alkoxide Complexes	Sara A. Toth	Kent State University	Scott D Bunge
21.	1,1,3,3-Tetramethylguanidine Solvated Titanium Aryloxides	Sriramakrishna Yarabarla	Kent State University	Scott D Bunge
22.	Hydrogenation of furan derivatives using bipyridine based electrophilic ruthenium (II) catalysts	Anitha S. Gowda	University of Kentucky	Folami Ladipo
23.	Development of Catalysts for CO ₂ Capture	Anitha Wishrojwar	University of Kentucky	John Selegue
24.	Synthetic Approaches to Cyclopentadienyl-Fused Thiophene Complexes of Iron	Deepshikha Gupta	University of Kentucky	John Selegue
25.	Inorganic and Materials Chemistry; Overview	John Selegue	University of Kentucky	John Selegue
26.	Chemistry of nanodiamond derived carbon nano-onions (N-CNOs)	Mahendra Sreeramoju	University of Kentucky	John Selegue
27.	Naturally Occurring Small Molecule Modulators of Metal-Mediated A β Pathways	Alaina S. DeToma	University of Michigan	Mi Hee Lim
28.	Ion-Exchange Synthesis of Complex Niobium and Tantalum Oxides	Joshua T. Greenfield & Catherine Oertel	Oberlin College	Catherine Oertel
29.	Using preferential cation bonding to control the ordering of MoO ₃ F ₃ ³⁻ octahedra for noncentrosymmetric materials	Allyson Fry	The Ohio State University	Patrick Woodward
30.	A Comparative Study on a Series of Substituted Porphyrin Aluminum (III) Complexes as Active Catalysts for the Copolymerization of Propylene Oxide and CO ₂	Chandrani Chatterjee	The Ohio State University	Malcolm Chisholm
31.	Excited State Dynamics and Charge Delocalization of MM Quadruply Bonded Complexes for Optoelectronic Devices	Brian Alberding	The Ohio State University	Malcolm Chisholm
32.	The chemistry of beta-diiminato Magnesium alkyl (BDIMg(alkyl)) complexes	Kittisak Choojun	The Ohio State University	Malcolm Chisholm
33.	Excited State Dynamics and Charge Delocalization of MM Quadruply Bonded Complexes for Optoelectronic Devices	Samantha Brown	The Ohio State University	Malcolm Chisholm
34.	Photocatalytic-Electronic Structure Relations In Tantalum Oxynitride Perovskites, ATaO ₂ N (A= Ca, Sr, Ba) and RTaON ₂ (R = La, Pr)	Spencer Porter	The Ohio State University	Patrick Woodward
35.	Characterization of a Glutathione 2Fe-2S Complex	Jingwei Li	The Ohio State University	James Cowan
36.	Probing the photoelectrochemistry of semiconductors and electrolytes	Gayatri Natu	The Ohio State University	Yiyang Wu
37.	Alternative Dye-Sensitized Solar Cell Electrode based on Mesoporous Nb-doped	Panitat Hasin	The Ohio State University	Yiyang Wu



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	TiO ₂ as Pt Support and Graphene			
38.	Spectroscopic Characterization of Photochromic Ruthenium Sulfoxide Complexes	Beth Anne McClure	Ohio University	Jeff Rack
39.	Spin coupling in ligand bridged dimetallic Ni(II) complexes	Haoshuang Wang	Ohio University	Michael P. Jensen
40.	A Photoactive Platinum Sulfoxide	Krystyna Chisholm	Ohio University	Jeff Rack
41.	Photochemistry of [Ru(bpy)(biq)(pySO)] ²⁺	Preston Roeper	Ohio University	Jeff Rack
42.	Oxidative Addition Chemistry of Ni(0) Supported by Tris(pyrazolyl)methane	Shengwen Liang	Ohio University	Michael P. Jensen
43.	Synthesis of Diamine-Diamide Ligand Systems for Robust Oxidative Catalysts	Bennett Thompson	Ohio Wesleyan	Kim Lance
44.	Synthesis of a Robust Ligand System for Oxidative Catalysis	Marina Metzler	Ohio Wesleyan	Kim Lance
45.	Indolylphosphine Derivatives: Ligands for Catalysis in Ionic Liquids	Adam Keith	University of Toledo	Mark Mason
46.	Synthesis and Reactivity of Homoleptic Tri-Alkyl Lanthanide Complexes Using N,N-Dimethylbenzylamine as a Ligand Scaffold	Andrew Behrle	University of Toledo	Joseph A. R. Schmidt
47.	Structural Characterization of Novel ortho-Lithiated Imines	John Beck	University of Toledo	Joseph A. R. Schmidt
48.	Testing the Distance-Relaxivity Relationship of the Freed Outer-Sphere Model	Buddhima Mahanama	Wayne State University	Matthew J. Allen
49.	Metals in Anticancer Therapy: Nickel(II), Copper(II), Zinc(II), and Cobalt(II)/(III) Complexes as Inhibitors of the 26S Proteasome	Dajena Tomco	Wayne State University	Claudio N. Verani
50.	[(terpy)Ru(aminocatechol)] precursors for self-assembled films	Dakshika Wanniarachchi	Wayne State University	Claudio N. Verani
51.	Relating Water-Coordination Number to Yield in the Lanthanide-Catalyzed Mukaiyama Adol Reaction Using Luminescence Decay	Derek Averill	Wayne State University	Matthew J. Allen
52.	Investigation of the Redox and Photophysical Response in Iron(III) and Ruthenium(II) Metallosurfactants	Frank Lesh	Wayne State University	Claudio N. Verani
53.	Synthesis, Magnetic, and MRI Contrast Agent Properties of Binuclear Lanthanide Complexes	Jeremy Moore	Wayne State University	Matthew J. Allen
54.	New Low-Symmetry 3d and 4d Metal Complexes with Redox and Amphiphilic Properties	Lanka Wikramasinghe	Wayne State University	Claudio N. Verani
55.	Redox and electronic behavior of modular bimetallic [RuIIIMIII] species where M is Mn,	Rajendra Shakya	Wayne State University	Claudio N. Verani



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	Fe, Co, Ga and Ru			
56.	Use of Coligands for Tuning of the Redox Properties and Langmuir Film Patterning in Copper-containing Amphiphiles	Rama Shanmugam	Wayne State University	Claudio N. Verani
57.	Understanding the Structure-Function Relationship of Myelin-Binding Metal Complexes	Sashiprabha Vithanarachchi	Wayne State University	Matthew J. Allen
58.	A New Class of Ligands for Aqueous, Lanthanide-Catalyzed, Enantioselective Mukaiyama Aldol Reactions	Yujiang Mei	Wayne State University	Matthew J. Allen
59.	VIPer: The Virtual Inorganic Pedagogical Electronic Resource.	Sibrina N. Collins	College of Wooster	Sibrina N. Collins
60.	Design and Characterization of Catalytic Metallopeptides for the Renin–Angiotensin System	Martin James Ross	The Ohio State University	James Cowan

