



2013 Ohio Inorganic Weekend Poster Presentations

7:30-10:00 pm Friday November 15, 2013

Kennedy Union Ballroom

University of Dayton



No.	Title	Presenter	Advisor	Affiliation
1	Synthesis and Reactivity of Quasi-Two-Coordinate bis(alkoxide) Complexes of Middle to Late First-Row Transition Metals	James Bellow	Stas Groysman	Wayne State University
2	Reactivity of Transition Metal Complexes with [OC(tBu) ₂ Ph]	Jeff Beattie	Stas Groysman	Wayne State University
3	Design of mononuclear and dinuclear [NNN] pincer systems toward reductive coupling of carbon dioxide	Blake Reed	Stas Groysman	Wayne State University
4	A Green Vapochromic Pt (II) Complex	Mahmood K. Abdolmaleki	Bill Connick	University of Cincinnati
5	The Influence of Dangling Nucleophiles in Outer-Sphere Multi-Electron Transfer Platinum Reagents	Francis J. May	Bill Connick	University of Cincinnati
6	A Mechanochromic Pt(II) Salt	Amie Norton	Bill Connick	University of Cincinnati
7	Reactions of Pt(IV) Complexes with Olefins	Angela Stastny	Bill Connick	University of Cincinnati
8	Preconcentration of uranium from complex iron matrices using Dipex TM extractant	Alicia Trauth	Bill Connick	University of Cincinnati
9	Evaluation of Electrodeposition for the use of Alpha Spectrometry	Megan Deeds	Bill Connick	University of Cincinnati
10	Selective Reductions Using Sm(II) Cryptates	Akhila Kuda-Wedagedara	Matthew Allen	Wayne State University

11	Synthesis and Characterization of New Gd(III)-Containing Complexes as Potential Targeted Contrast Agents for Magnetic Resonance Imaging	Sashiprabha Vithanarachchi	Matthew Allen	Wayne State University
12	Microwave-Accelerated and Solid-Phase Enabled Synthesis of a Complex Macromolecular Ligand for Lanthanides	Lauren Hopper	Matthew Allen	Wayne State University
13	Heterobimetallic Lanthanide Complexes that Display Energy Transfer in Solution	Nikhil Barua	Matthew Allen	Wayne State University
14	Oxygen-Responsive Eu(II/III) Liposomal Contrast Agent for Dual-Mode Magnetic Resonance Imaging	Levi Ekanger	Matthew Allen	Wayne State University
15	Influence of Rotational Correlation Time and Field Strength on Relaxivity of Eu(II)-Containing Cryptates	Chamika Lenora	Matthew Allen	Wayne State University
16	Influence of Structural Changes on the Physical Properties of Ln(II)-Cryptates	Adam Crowe	Matthew Allen	Wayne State University
17	Studying Water-Exchange Rates of Lanthanide ions in ionic Liquids Using Variable-Temperature ¹⁷ O-NMR Spectroscopy	Zhijin Lin	Matthew Allen	Wayne State University
18	SCrALS: Utilizing a High Flux Radiation Source for the Elucidation of Structures from Diffractionally-Challenged Microcrystals	Jeanette A. Krause		University of Cincinnati
19	Synthesis and Characterization of Asymmetric Monooxo Molybdenum Complexes Containing Dithiolene Units	Sara Dille	Partha Basu	Duquesne University
20	Further Study into the Mechanism of Cyclopolymerization of Lactide by (tBu-[SalAmEE])Al	Harry Hurley	Yutan Getzler	Kenyon College
21	Synthesis and Characterization of a New Antitumor Re(I) Organometallic Compound Containing the Tridentate 2,6-bis(azaindole)pyridine Ligand	Kyle Koemm	Sibrina N. Collins	College of Wooster
22	Band Gap Tuning of Tin-Alloyed Germanane	Maxx Arguilla	Josh Goldberger	The Ohio State University
23	Properties-by-Design in Metal Chalcogenide Ribbons	Zachary Baum	Josh Goldberger	The Ohio State University

24	Toward the Development of Photoactive Materials Incorporating MM Quadruple Bonds: Synthesis, Characterization and Photophysical Properties	Sharlene A. Lewis	Malcolm Chisholm	The Ohio State University
25	Towards Next Generation Materials Utilizing the Metal-Metal Multiple Bond	Christopher B. Durr	Malcolm Chisholm	The Ohio State University
26	Tuning the MLCT of MM (M = Mo, W) Quadruply Bonded Compounds by the Use of Diarylboron Substituents	Philip J. Young	Malcolm Chisholm	The Ohio State University
27	Azadipyrrromethene Dyes and Their Zn(II) Complexes as Red Absorbing Electron Acceptors for Organic Solar Cells: Effect of Ethynylthiophene Substituent at the Distal Phenyls	Cassie Daddario	Genevieve Suave	Case Western Reserve University
28	Electrophilic Alkylation of Pseudotetrahedral Nickel Thiolate Complexes	Michael Jensen		Ohio University
29	Synthesis, Crystal Structure and Physical Properties of Some Ternary Oxorhenates	Jie Xiong	Pat Woodward	The Ohio State University
30	Studies of the Double Perovskite $\text{Sr}_2\text{CrB}'\text{O}_6$ ($\text{B}' = \text{W}, \text{Mo}$) in Bulk and Thin Film Form	Alejandra Morales	Pat Woodward	The Ohio State University
31	Femtosecond Transient Absorption Anisotropy Study on Photochromic Ruthenium and Osmium Sulfoxide Complexes	Lei Wang	Jeffrey Rack	Ohio University
32	Ruthenium Sulfoxides as a New Media for Holographic Information Storage	Maksim Livshits	Jeffrey Rack	Ohio University
33	An Ultrafast Spectroscopic Investigation of Photochromic Ruthenium Complexes Featuring Sulfoxide-Chalcogen Ligands	Jason Malizia	Jeffrey Rack	Ohio University
34	Photoaddressable Topology in Ruthenium-doped PDMS Copolymer Thin Films	Lauren Loftus	Jeffrey Rack	Ohio University
35	Efficient and Regioselective [2+2+2] Cyclootrimerization of Ynoates and Related Alkynes Catalyzed by Nickel	Sanjeewa K. Rodrigo	Hairong Guan	University of Cincinnati

36	Secondary Phosphine Oxides as Effective Ligands for Nickel-Catalyzed Carbon-Sulfur Cross-Coupling Reactions	Nadeesha P. N. Wellala	Hairong Guan	University of Cincinnati
37	Heterobimetallic Complexes of Fe and Cu Featuring a Bridging Hydride: Potential Application in Homogeneous Water Gas Shift Reaction	Arundhoti Chakraborty	Hairong Guan	University of Cincinnati
38	Core-shell electron-phonon interactions in atomically mono-dispersed monolayer protected gold clusters	Viraj Dhanushka	Ekkehard Sinn	Western Michigan University
39	Highly sensitive and selective fluorescent sensors for the detection of Cu ²⁺ , Pb ²⁺ and Zn ²⁺	Rathnayaka Madawala	Ekkehard Sinn	Western Michigan University
40	Structural, spectroscopic, and magnetic properties of iron triazamacrocyclic complexes	Debra R. Preston	Ferman Chavez	Oakland University
41	Ru(II)-Caged Bioactive Molecules for Photoactivated Drug Delivery	Jessica Knoll	Claudia Turro	The Ohio State University
42	Photoinduced Dual-binding of Dirhodium Complexes to DNA	Alycia Palmer	Claudia Turro	The Ohio State University
43	Synthesis and Characterization of a New Dirhodium (II,II) Complex with Potential for Dual-binding to DNA	Regina Akhimie	Claudia Turro	The Ohio State University
44	Novel dirhodium paddlewheel complexes as hydrogen evolution catalysts	Bryan Albani	Claudia Turro	The Ohio State University
45	Investigations into long, directional interactions in various cofacial macrocyclic oligomer systems	Benjamin Sturtz	Malcolm Kenney	Case Western Reserve University
46	Photochemistry of Complexes Containing alpha-Hydroxy Acid Chelates	Jennifer Grabo	Michael Baldwin	University of Cincinnati
47	The Formation of Alpha-Hydroxy Acid Containing Metal Complexes	Mark Chrisman	Michael Baldwin	University of Cincinnati
48	Bioinspired alpha-Hydroxy Acid-Containing Tripodal Amine Chelates and their Metal Complexes	Jennifer Vernia	Michael Baldwin	University of Cincinnati

49	Utilizing Secondary Coordination-Sphere Interactions for Carbon Dioxide Reduction and Hydrogenation Reactions with a Cobalt-Terpyridine Complex	Eric Dahl	Nathaniel K. Szymczak	University of Michigan
50	Design, synthesis and ligand-metal reactivity of transition metal complexes supported by 6,6'-dihydroxy terpyridine	Cameron Moore	Nathaniel K. Szymczak	University of Michigan
51	Toward Small Molecule Activation using Iron Terpyridine Complexes Bearing Functionality in the Secondary Coordination Sphere	Chelsea Cates	Nathaniel K. Szymczak	University of Michigan
52	Toward a Clickable Lewis Acid/Base Triad	Laura Essex	Nathaniel K. Szymczak	University of Michigan
53	Highly Conjugated Tetra-ruthenated Macrocyclic: Synthesis, Characterization, DNA Binding, and DNA Photocleavage Studies	Ashley Berding	Shawn Swavey	University of Dayton
54	Enhanced Electrocatalytic Reduction of Oxygen at Electrodes Coated with a Multi-metallic Co(II)/Pt(II) Porphyrin	David Fresh	Shawn Swavey	University of Dayton
55	Monometallic Europium, Terbium, and Neodymium Complexes formed from the Bridging Ligand 2,3-bis(2-pyridyl)pyrazine: Structural and Temperature Dependent Luminescent Properties	Jasminder Grewel	Shawn Swavey	University of Dayton
56	A Di-Ruthenated Porphyrin Capable of Plasmid DNA Photocleavage within the Photodynamic Therapy Window.	Dale Wilson	Shawn Swavey	University of Dayton
57	Synthesis and Photophysics of Organometallic Paddlewheel Complexes of Carbazolyl-benzoic Acids	Liubov Lifshits	Jeremy Klosterman	Bowling Green State University
58	Donor-substituted 1,4-Phenylenediacrylic acids: Tunable Ligand Photophysics in MOFs	Jose Camacho	Jeremy Klosterman	Bowling Green State University
59	Towards the Postsynthetic Modification of MOPs: Synthesis of Bent Organic Ligands	Valentina Brega	Jeremy Klosterman	Bowling Green State University
60	FRIONs: Flame Retardant Ions for Lithium Batteries	Joshua Gaffen	John Protasiewicz	Case Western Reserve University
61	Conjugated Organophosphorus Materials	Alexandra Beckman	John Protasiewicz	Case Western Reserve University

62	Studies Toward Homo-and Hetero-Dinuclear Complexes Featuring a Xanthene Diamine Linker	Ryan Hollingsworth	Stas Groysman	Wayne State University
63	Mechanistic Differences in Ligand Exchange Reactions	Jay Schmidt	Larry Kolopajlo	Eastern Michigan University