2023 SoCal Organometallics Meeting

Saturday June 3, 2023

University of California, Riverside

Sponsored by: UCR Chemistry Department, Catapower, Chevron Phillips Chemical, and San Gorgonio and Southern California ACS sections.

11:00 – 11:55	**Arrival/Lunch** *(provided)*
11:55	**Introduction (Ana Bahamonde)**

Session 1

Session Chair: Robert Bradley (Bahamonde group)

12:00	*Development of an Asymmetric Electrochemical-NHK Reaction using Multivariate Linear Regression Analyses* Arianne Hunter, Caltech (Reisman group)
12:20	*Synthesis of Silicon-Germanium and Germanium Adamantane Clusters* Imex Aguirre Cardenas, UC Riverside (Su group)
12:40	*Preparation of cationic bipyridyl ligands via a C–H trimethylamination approach and their influence on the physical properties of transition metal* Ryan King, UC Irvine (Yang group)
1:00	*Iridium-Based Di-, Tri-, Tetra-, and Pentanuclear Polyhydride Clusters: CO_2 Hydrogenation and Hydride Reactivity* Valeriy Cherepakhin, USC (Williams group)
1:20	*A Fenton Inspired Method to Synthesize Diarylmethanes* Robert Crowley III, UC Riverside (Kou group)
1:40	*Synthesis and reaction chemistry of a terminal nickel carbyne* Ritchie Hernandez, UCSD (Figueroa group)
2:00	*Enantioselective Hydroalkenylation and Hydroalkynylation of Alkenes Enabled by a Transient Directing Group* Amit Simlandy, The Scripps Research Institute (Engle group)
2:20	*Flash: Cobalt Phosphinothiolate Complex for Homogeneous Electrocatalytic Reduction of CO_2 to Formic Acid and Syngas* David Velazquez, USC (Marinescu group)
2:30	*Flash: Exploring Charge Transfer/ Transport in Tetraaryl Osmium Complexes* Luana Zagami, USC (Inkpen group)
2:40	*Flash: A Shortcut to Alkylidenes - Photoinduced Isomerization of β,β'-Disubstituted Tungstacyclopentane Complexes Through Metal-Assisted Hydrogen Atom Migrations* René Riedel, UC Riverside (Schrock group)
2:50 – 3:20	Coffee Break

Session 2

Session Chair: Tim Siu (Su group)

3:20	*A rapid electrochemical method to recycle carbon fiber reinforced plastics using carbon-centered radicals* Y. Justin Lim and Zehan Yu, USC (Williams and Nutt groups)
3:40	*Accessing Enantioenriched α-aryl O-heterocycles using Ni/Ir Photoredox Catalyzed Cross Coupling* Brennan McManus, UC Riverside (Bahamonde group)
4:00	*Solvent and Charge Effects on the Redox Behavior of Heterobimetallic Salen-Crown Complexes* Nadia Leonard, UC Irvine (Yang group)
4:20	*New Approaches to Actinide-Carbon Multiple Bonds* Thien Nguyen, UCSB (Hayton group)
4:40	*Breaking Kinetic Record for Cysteine Bioconjugation with Organometallic Reagents* Evan Doud, UCLA (Spokoyny group)
5:00	*CAAC-Cu Catalysis Enables Rapid Synthesis of Complex Small Molecules* Skyler Mendoza, The Scripps Research Institute (Engle group)
5:20	*The Positional Effects on the Optimization of an Immobilized Re Tricarbonyl Catalyst* Jeremiah Choate, USC (Marinescu group)
5:30	*Flash: Conductance Trends in [n]staffanes* Ashley Pimentel, UC Riverside (Su group)
5:40	*Flash: An Organometallic Strategy for Peptide Macrocyclization* Nima Adhami, UCLA (Spokoyny group)
5:50	*Flash: Organometallic Coordination Networks Containing Low-Valent Metal Nodes and Isocyanide Linkers* Adam Grippo, UCSD (Figueroa group)
6:00-8:00pm	Dinner/Poster Session

Poster Presentations

#	Presenter	Institution	Title
1	Garrett Musil	UCSD (Stauber group)	Fe(II)-Anchored Glycosylated Cages for Use in Biological Molecular Recognition
2	Lang Cheng Hung	UCR (Bahamonde group)	Accessing Enantioenriched α-aryl O-heterocycles using Ni/Ir Photoredox Catalyzed Cross Coupling
3	Andrew Rander	USC (Williams group)	Dehydrogenation of Ethanol For Next Generation Fertilizers
4	Leo Morag	UCLA (Diaconescu group)	Examination of a bimetallic redox-responsive catalyst for the coupling of carbon dioxide and epoxides
5	Kimberly Sharp, Vaishnavi Nair, and Jay Barbor	Caltech (Stoltz group)	Development of a Ni-Catalyzed N–N Coupling for the Synthesis of Hydrazides
6	Christian M Johansen	Caltech (Peters group)	Catalytic reduction of cyanide to ammonia and methane at a mono-nuclear Fe-site
7	Ashley Pimentel	UCR (Su group)	Conductance Trends in [n]staffanes
8	Clarabella Li	UC Irvine (Yang group)	Investigating Redox-Active Guanidines for CO_2 Capture
9	Kevin Liang	UCR (Bahamonde group)	Nickel Photoredox Nitrogen Funtionization of Indoles
10	Andrea Stegner	Caltech (Reisman group)	Development of a Ni-catalyzed cross-electrophile fragment coupling for the synthesis of isodocarpin
11	Kali Flesch and Ruby Chen	Caltech (Stoltz group)	Divergent Catalysis: Catalytic Asymmetric [4+2] Cycloaddition of Palladium Enolates
12	Thomas Czyszczon-Burton	USC (Inkpen group)	Silver-Halogen Contacts for Single Molecule Conductance Measurements
13	Ana Garcia	UC Irvine (Yang group)	Exploration of heterobimetallic complexes for CO_2 activation
14	Yashna Khakre	USC (Marinescu group)	Dithiolene-based Metal-Organic Frameworks for Hydrogen Evolution from Water
15	Robert Bradley	UCR (Bahamonde group)	Mechanistic studies of amide arylation under mild conditions enabled by nickel-photoredox catalysis
16	Linh Le	Caltech (Agapie group)	C-C coupling and site differentiation in reaction with CO in a FeS cluster model of FeMoco
17	Melissa Ramirez	Caltech (Stoltz group)	Development of an Enantioselective Ni-Catalyzed α-Spirocyclization of Lactones
18	Milan Maji	UCR (Schrock group)	Syntheses of Tungstabicyclopentanes from Dienes and Their Photochemical Conversions to Alkylidenes
19	Luana Zagami	USC (Inkpen group)	Exploring Charge Transfer/ Transport in Tetraaryl Osmium Complexes
20	Adam Samuel	USC (Marinescu group)	Exogenous Acid and its Effects on Electrocatalytic CO_2 Reduction with a Cobalt Aminopyridine Complex
21	Olivia Taylor	UCR (Bahamonde group)	Harnessing machine learning to streamline reaction optimization
22	Nima Adhami	UCLA (Spokoyny group)	An Organometallic Strategy for Peptide Macrocyclization
23	David Velazquez	USC (Marinescu group)	Co phosphinothiolate complex for homogeneous electrocatalytic reduction of CO_2 to Formic Acid & Syngas
24	Adam Grippo	UCSD (Figueroa group)	Organometallic Coordination Networks Containing Low-Valent Metal Nodes and Isocyanide Linkers
25	Daniel Bím	Caltech (Hadt group)	Inspecting the Structure-Function Relationships in Nickel–Bipyridine Photoredox Catalysis
26	Hootan Roshandel	UCLA (Diaconescu group)	Redox active Ti complexes for the polymerization of cyclic esters and epoxides
27	Viet Tran	UCSD (Figueroa group)	Building a ruthenium analogue of a well studied iron system
28	Caitlyn Cruz	CPP (Stieber group)	Reactivity of bidentate N-heterocyclic nickel complexes with various CO_2 sources
29	A. J. Chavez	USC (Williams group)	Self-Pressurizing Dehydrogenation of A Formic Acid Based Media
30	Hunter N. Pauker	UCI (Nielsen group)	Data Directed Optimization of Catalysts
31	Yin Pok Wong	UCLA (Diaconescu group)	Using Classifiers to Predict Catalyst Design for Polyketone Microstructure