Southern California Organometallics Meeting

February 10, 2019

Sponsored by the

Loker Hydrocarbon Research Institute

USC Department of Chemistry

Anton B. Burg Foundation

Morning session	1		12:00-1:20	Lunch / Poster Session (LHI Bistro / Ola
9:30-10:00 am	Poster setup	Olah Library		
	Coffee, snacks	LHI Bistro	Second Plenar	
		GT TT 000	1:20 pm	Harnessing the Reactivity of Boron Vertex
First Plenary Section SLH 200			Carborane Clusters	
10:00 am	Opening Remarks / Lewis Acid Catalysts: Tackling Environmental			Harrison Mills, UCLA (Spokoyny Group)
	Plastic Buildup Megan Fieser, USC		1:40 pm	Readily Available Primary Aminoboranes
	Megali Fiesel, USC		1.10 pm	Aldimine Synthesis
10:15 am	Redox-Processes in 1D, 2D and 3	BD Materials		Glen Junor, UCSD (Bertrand Group)
	Michael Inkpen, USC			**
	-		2:00 pm	Interfacial Growth of Conjugated Metallop
10:30 am	Geometry Change of a Series of Z	Zr Compounds in Lactide		Reduction
	Polymerization			Nicholas Orchanian, USC (Marinescu Gro
	Ruxi Dai, UCLA (Diaconescu Gr	oup)	2:20 pm	Synthesis and Characterization of a Tetra-
10:50 am	Break		2.20 pm	Stabilizing Four Nickel(III) Centers
10.50 am	Break			Samuel Jacob, UCSB (Menard Group)
11:00 am	Catalytic Oxidation for Recycling Carbon Fiber Reinforced Polymer			Sumaer succes, elebb (Wentird Group)
	Composites		2:40 pm	Break
	Carlos Navarro, USC (Williams O	Group)		
11.20			2:50 pm	Electrochemically Controlled Redox-Switch
11:20 am	Coordination of Macrocyclic Liga			Polymerization
	Greggory Kent, UCSB (Hayton C	aroup)		Zachary Hern, UCLA (Diaconescu Group)
11:40 am	Flash Talks		3:00 pm	Chiral Ancillary Ligands for Use in Bis-C
	Synthesis and Reactivity of a Boro	ane Radical Stabilized by the	1	Complexes
	V(IV/V) Redox Couple	·		Savannah Kapper, USC (Thompson Group
	Anthony Wong, UCSB (Menard	Group)		
	B 41 B 14 4 4 4		3:20 pm	Precatalyst Evolution and Death in Ruther
	Reversible Bond Activistion at a N			of Amines and Alcohols
	Daniel Tolentino, UCSD (Bertran	id Group)		Valeriy Cherepakhin, USC (Williams Grou
	Synthesis of Bis(Trityl)Complexes	s as Precursors to Metal(0)	3:40 pm	Flash Talks
	Nano clusters	(٠/	- · · · r	A Boron Cluster-Based Approach to Nucle
	Alexander Touchton, UCSB (Hay	rton Group)		Xin Mu, UCLA (Spokoyny Group)
	Design of a Hangman-Type Co M			Investigating the C-H Bond Activation Med
	Eric Johnson, USC (Marinescu G	roup)		(V) Oxides using Vanadium Phosphorous
	Catalytic Conquation of Chlorina	Diarida		Complexes Timethy Carrell LICSP (Manard Group)
	Catalytic Generation of Chlorine Tayyebeh Bakhshi, UCSB (Abu-			Timothy Carroll UCSB (Menard Group)
	Tay you Dakhishi, OCSD (Abu-	omai Group)		

Morning session

12:00-1:20 Lunch / Poster Session (LHI Bistro / Olah Library) **SLH 200** ne Reactivity of Boron Vertex-Centered Radicals in lusters ls, UCLA (Spokoyny Group) lable Primary Aminoboranes as Powerful Reagents for thesis JCSD (Bertrand Group) rowth of Conjugated Metallopolymers for CO2 chanian, USC (Marinescu Group) Characterization of a Tetra-Nickel Cluster Capable of our Nickel(III) Centers o, UCSB (Menard Group) cally Controlled Redox-Switchable Ring-Opening n, UCLA (Diaconescu Group) ary Ligands for Use in Bis-Cyclometallated Iridium apper, USC (Thompson Group) Evolution and Death in Ruthenium-Catalyzed Coupling d Alcohols epakhin, USC (Williams Group) ster-Based Approach to Nucleophilic Borylation A (Spokoyny Group) the C-H Bond Activation Mechanism at Phosphorous sing Vanadium Phosphorous Oxide (VPO) Model

Ruthenium Catalyzed Tandem Pictet-Spengler Reaction Anju Nalikezhathu, USC (Williams Group)

Divergent Synthesis of Well-Defined Copper Nanoclusters Jesse Peltier, UCSD (Bertrand Group)

Activation of Unsaturated Small Molecules Using 9; 10-Anthacenyl-Linked Bisphenoxide Group IV Complexes Meaghan Bruening, Cal. Tech. (Agapie Group)

Finding harmony among incompatibility in the selective oxidation of CH₄ to CH₃OH with atmospheric O₂ Benjamin Natinsky, UCLA (Liu Group)

Poster Session

Olah Library

12:00-1:20 and 4:00-6:00 pm

Lewis Acid Catalysts: Tackling Environmental Plastic Buildup Juan Pablo de los Rios, Sophia Kosloski, Yvonne Manjarrez, USC (Fieser Group)

Redox-Processes in 1D, 2D and 3D Materials
Joseph Parr, Christina Trang, USC (Inkpen Group)

Reversible Bond Activistion at a Non-Metal Center Daniel Tolentino, UCSD (Bertrand Group)

Synthesis of Bis(Trityl)Complexes as Precursors to Metal(0) Nano clusters Alexander Touchton, UCSB (Hayton Group)

Design of a Hangman-Type Co Macrocyle for CO2 Reduction Eric Johnson, USC (Marinescu Group)

A Boron Cluster-Based Approach to Nucleophilic Borylation Xin Mu, UCLA (Spokoyny Group)

Investigating the C-H Bond Activation Mechanism at Phosphorous (V) Oxides using Vanadium Phosphorous Oxide (VPO) Model Complexes
Timothy Carroll, Rachel Garwick UCSB (Menard Group)

Ruthenium Catalyzed Tandem Pictet-Spengler Reaction Anju Nalikezhathu, USC (Williams Group) Is It Really Bifunctional?

Ivan Demianets, USC (Williams)

Activation of Unsaturated Small Molecules Using 9; 10-Anthacenyl-Linked Bisphenoxide Group IV Complexes

Meaghan Bruening, Cal. Tech. (Agapie Group)

 ${\it Open-Shell\ Mo(V)\ Nitrides;\ Phosphides;\ and\ Alkylidynes:\ Does\ Radical\ Character}$ ${\it Dictate\ Coupling\ Chemistry}$

Gwendolyn Bailey, Cal. Tech. (Agapie Group)

Zirconium Complexes Supported by a Ferrocene-Based Ligand as Redox Switches for Hydroamination Reactions

Yi Shen, UCLA (Diaconescu Group)

Redox Switchable Polymerization by Aluminum Complexes
Amy Lai. UCLA (Diaconescu Group)

Catalytic Generation of Chlorine Dioxide
Tayyebeh Bakhshi, UCSB (Abu-Omar Group)

Divergent Synthesis of Well-Defined Copper Nanoclusters
Jesse Peltier, UCSD (Bertrand Group)

Investigating the Lewis-Acid Assisted Electrochemical Reduction of Carbon Dioxide by Crown-Containing Complexes
Nehal Idris, UCI (Yang Group)

Proximal Lewis Acid Effects on Small Molecule Activation by SNS Pincer Complexes Jeff Barlow, UCI (Yang Group)

Modification and Complexation of Azaphosphatranes as Ligands in Coordination Chemistry

Zachary Thammavongsy, UCI (Yang Group)

6:00 pm **Dinner**