

Negishi-Brown Poster Session
Monday, October 6, 2014 – STEW 318 / 320

Synthetic Method

	Poster Presenter	Research Group	Poster Title
1	Kothanda Rama Pichaandi	Abu-Omar (Purdue)	C-H activation of Methyltrioxorhenium (MTO) by Pincer Iridium Hydride to Give Agile Ir-Re Bimetallic Compounds
2	Wei You	Brown (IU)	Copper-Catalyzed Diarylation of Alkenes
3	Anyin Li	Cooks (Purdue)	Ambient Ionization of Noble Metals and Direct Synthesis of Nanoparticles or Organometallics as Highly Efficient Catalysts
4	Dexter Davis	Dai (Purdue)	Synthesis of Phenanthradine Derivatives by Oxidative Cyclization of Cyclopropanols with 2-Isocyanobiphenyls
5	Yu Bai	Dai (Purdue)	Efficient Synthesis of THP/THF-Containing Macrolides via Palladium-Catalyzed Alkoxy carbonylative Macrolactonizations
6	Marvin Parasram	Gevorgyan (UIC)	Endo Selective Silyl Methyl Heck Reaction
7	Anton Gulevich	Gevorgyan (UIC)	Conversion of 1-Alkenes into 1,4-diols through an auxiliary-mediated formal homoallylic C-H oxidation
8	Victoria Helan	Gevorgyan (UIC)	Practical and General Cu-Catalyzed Transannulation Reaction of Pyridotriazoles with Terminal Alkynes under Aerobic Conditions: Efficient Synthesis of Indolizines
9	Yi Shi	Gevorgyan (UIC)	Intramolecular Transannulation of Alkynyl Triazoles via Alkyne-Carbene Metathesis Step: Access to Fused Pyrroles
10	Yang Wang	Gevorgyan (UIC)	Pd(II) Catalyzed Synthesis of Salicylic Acids from Phenols via a Silanol Intermediate
11	Roohollah Shiroodi	Gevorgyan (UIC)	Gold-Catalyzed 1,3-Transposition of Ynones
12	Olga V. Zatolochnaya	Gevorgyan (UIC)	Carboxylate Switch between Hydro- and Carbopalladation Pathways in Regiodivergent Dimerization of Alkynes
13	Dhruba Sarkar	Gevorgyan (UIC)	PyrDipSi: a General Removable/Modifiable Directing Group for Diverge C-H Oxygenation and Halogenation of Arenes

Synthetic Method (continued)

	Poster Presenter	Research Group	Poster Title
14	Nilanjana Chakraborty	Ghosh (Purdue)	Design of Gem-difluoro-bis-Tetrahydrofuran as P2-Ligand for HIV-1 Protease Inhibitors to Improve Brain Penetration: Synthesis, X-ray Studies, and Biological Evaluation
15	Anne Veitschegger	Ghosh (Purdue)	FeCl ₃ -Catalyzed Tandem Prins and Friedel Crafts Cyclization: A Highly Diastereoselective Route to Polycyclic Ring Structures
16	Thomas Bobinski	Negishi (Purdue)	Oxidative Cleavage of Electron Deficient Vinylsulfones via Osmium Catalyzed Dihydroxylation
17	Norman Lu	Negishi (Purdue)	A New Catalyst Made of 4-N,N-Dimethylaminopyridine (DMAP) and Saccharin as an Efficient Recyclable Acylation
18	Wataru Mitsuhashi	Ramachandran (Purdue)	Preparation and coupling of [(Z)-3,3,3-trifluoropropen-1-yl]BF ₃ K: Synthesis of [(Z)-3,3,3-trifluoropropen-1-yl]arenes
19	Christopher Uyeda	Uyeda (Purdue)	Catalysis at Metal-Metal Bonds
20	Wei Liu	White (UIUC)	General Allylic C–H Alkylation with Tertiary Nucleophiles

Bioorganic, Materials Chemistry, Multistep Synthesis, Physical Organic, and Others

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21	Michael G. Mazzotta	Abu-Omar (Purdue)	Oxo Functionalization of Novel Rhenium(V) Dioxo Pincer Complexes
22	Anna Brezden	Chmielewski (Purdue)	Identification of the Antimicrobial Mechanism of Action of the Unnatural Proline-rich Peptide FI-P14LRR-B
23	Jeremy Gleaton	Chmielewski (Purdue)	Metal-Ligand Mediated Self-Assembly of Collagen-Based Peptides into Functional Microspheres
24	Valentina Pirro	Cooks (Purdue)	Touch spray mass spectrometry with medical swabs for direct analysis of bacteria and drugs in oral fluid
25	Christina Ramires Ferreira	Cooks (Purdue)	Metabolomics of Cerebrospinal Fluid by Ambient Ionization MRM profiling
26	Alan K. Jarmusch	Cooks (Purdue)	Diagnostic lipid profiles of prostate and kidney cancer surgical specimens by ambient ionization mass spectrometry

Bioorganic, Materials Chemistry, Multistep Synthesis, Physical Organic, and Others (continued)

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27	Siddhartha Akasapu	Ghosh (Purdue)	An Enantioselective Synthesis of a MEM-Protected Aetheramide A Derivative
28	Heather Osswald	Ghosh (Purdue)	Design and Synthesis of Potent Macrocyclic HIV-1 Protease Inhibitors Involving P1-P2 Ligand
29	Gang Liu	Helquist (Notre Dame)	The quest for HDAC3 selective inhibitors
30	Raghavendhar Kotha	Kenttämäa (Purdue)	Synthesis and Gas phase experimental study of the chemical properties of tri- and tetrahydroquinolinium radicals
31	Sara Biladeau	Nantz (U of Louisville)	Isotopically coded Weinreb amide-inspired reagents for GC-MS profiling of aldehydes and ketones
32	Sean N. Natoli	Ren (Purdue)	Synthesis of cobalt σ -gem-DEE compounds: Effects of cross-conjugation on Co-Co coupling
33	Lei Tan	Xia (Purdue)	Probing the Radical and Base Dual Properties of Peptide Sulfinyl Radicals via Mass Spectrometry
34	Ryohsuke Ikehata	Takahashi (Hokkaido)	Catalytic Asymmetric Synthesis of <i>p</i> -Stereogenic Phosphines by Mo-catalyzed Asymmetric Ring-Closing Metathesis on (η^6 -Arene) Chromium Platform
35	Masayoshi Bando	Takahashi (Hokkaido)	Formation of Spiro Compounds from Titanacyclopentadienes with Bismuth Chloride