The University of Notre Dame presents
Poster Titles

1. What is Special about Arsenic? Self-centered Tetrahedra and Oligomeric Units in New Arsenic-Based Polar Intermetallics. Franck Gascoin and Slavi Sevov (ND)

2. Homogeneous Asymmetric Catalytic Hydrogenation of Prochiral Polysubstituted Olefins with Chiral Iridium Complexes. Jason C. Klein and Jillian M. Buriak (Purdue)

3. Synthesis of Rhodium and Iridium N-Heterocyclic Carbene Complexes. Leslie D. Vazquez-Serrano and Jillian Buriak (Purdue)


6. An Inorganic Perspective of Bergman Cyclization Reactions. Pedro J. Benites, Diwan S. Rawat, and Jeffrey M. Zaleski (IU)


8. New Chiral Derivatives of the Group 4 and 5 Metals. Scott Shweiger, Matt Thorn, Ea-Ji-Ru Son, Scott Weinert, and Ian P. Rothwell (Purdue)


10. Coordination Modes of 2-(Inden-3-yl)-4,6-di-tert-butylphenol. Luke Turner, Matt Thorn, Ian P. Rothwell, and Robert Chesnut (Purdue)


13. Reactions of [Re₂Cl₄(dppm)₂] with MeLi, HCCH, and HCC(CH₂)₄CCH. Mani Ganesan, Phillip E. Fanwick, and Richard Walton (Purdue)

14. An Investigation into the Reaction of (Cp*Ru)₂B₃H₉ with CO₂(CO)₅: Unexpected Results due to Solvent Effects. Antonio G. DiPasquale and Thomas P. Fehlner (ND)

15. Synthesis and Reactivity of Rhenium Complexes Supported by Diphosphinoamido Pincer Ligands. Oleg V. Ozerov and Kenneth Caulton (IU)

16. Oxygen Atom Transfer Between Late Metal Centers. Kevin C. Fortner, David S. Laitar, John Muldoon, and Seth N. Brown (ND)
Poster Titles

17. An Interplay Between Delocalized and Localized Bonding in Some Novel Tin-based Structures with Mixed Alkali Metals. **Svilen Bobev** and Slavi Sevov (ND)

18. Transition Metal Phosphates and Borophosphates. Synthesis and Structural Characterization of the First Molybdenum Borophosphate. **Eddy Dumas** and Slavi C. Sevov (ND)

19. Functionalization of Porous Silicon with Symmetrical Dialkenyl and Dialkynyl Disulfides: An Approach to Tethering Metal Nanoparticles to Semiconducting Surfaces. J.M. Schmeltzer, Melissa V. Donnelly, and Jillian M. Buriak (Purdue)

20. IAN-Amines: The First Class of Axially Chiral β-Diketamines and their Promise in the Development of Non-Metallocene Polymerization Catalysts. **Sarah B. Cortright** and Jeffrey N. Johnston (IU)

21. Emission Studies of Copper Porphyrins Bound to DNA Hairpins. **Stephanie A. Bejune**, Patricia Lugo-Ponce, Meritxell Bach, and David R. McMillin (Purdue)

22. Characterization of Nickel(III)-Peptide Complexes. **Brandon J. Green** and Dale W. Margerum (Purdue)


... Synthesis and DNA Studies of Bis Pyridyl Porphyrins. **A.H. Shelton**, Rebecca K. Wall, Lisa C. Bonaccorsi, and David R. McMillin (Purdue)


27. Luminescence from Platinum(II), Palladium(II), Zinc(II), and Cadmium(II) Terpyridines. D.G. Cattell, M.H. Wilson, S.A. Bejune, J.F. Michalec, and D.R. McMillin (Purdue)

28. Fluorescent Analogs of UDP-Glc: Unique Probes to Follow the Metallobiochemistry of Toxins A and B of C. difficile. **Sudeep Bhattacharyya** and Andrew L. Feig (IU)

29. Toxin Control by Dietary Minerals. **Elizabeth E. Hamilton** and Jonathan J. Wilker (Purdue)

30. Chemistry of Marine Adhesives. **Mary J. Sever**, David L. Linson, and Jonathan J. Wilker (Purdue)

31. Kinetics and Mechanism of Hypochlorous Acid Decomposition in the Presence of Bromide Ion. **Kara E. Huff** and Dale W. Margerum (Purdue)

32. Selective Adsorption of Molecular QCA candidates [(acac)2Ru2bptz]6−1 on Chemically Modified Surfaces. **Bindhu Varughese**, Sudha Chellamma, and Marya Lieberman (ND)

Toward the Implementation of Molecular Quantum-dot Cellular Automata (MQCA). **Yuliang Wang**, Sudha Chellamma, and Marya Lieberman (ND)
**Schedule**

8:00–9:00am
Welcome Reception and Poster Hanging, Stepan Hall Lobby

9:00–9:10am
Opening Remarks, 123 Nieuwland Science Hall

9:10–9:30am
“Electrochemical Application Toward the Formation and Patterning of Porous Semiconducting Materials”
Hee Cheul Choi and Jillian Buriak, Purdue University

9:30–9:50am
“Computational Studies of Mixed-Valence Molecules for Use in Molecular Electronics”
Sonja B. Braun-Sand and Olaf Wiest, University of Notre Dame

9:50–10:10am
“Metal Mediated Reactivity of Photochemically Generated Diradical Intermediates”
Brian J. Kraft and Jeffrey M. Zaleski, Indiana University

10:10–10:30am
“Transition Metal Halides vs. Transition Metal Hydrides in the Formation of Metallaboranes”
Melanie A. Peldo and Thomas P. Fehlner, University of Notre Dame

10:30–12pm
Odd Numbers Poster Session, Stepan Lobby

12–1:30pm
Lunch

1:30–3:00pm
Even Numbers Poster Session, Stepan Lobby

3:00–3:20pm
“Mechanistic Features of a Copper-Catalyzed Aziridination”
Peng Wu, Andrei N. Vedernikov, and Kenneth G. Caulton, Indiana University

3:20–3:40pm
“Asymmetrically Bridging Aryls of Iridium”
John Muldoon and Seth N. Brown, University of Notre Dame

3:40–4:00pm
“Building on the Emission of Platinum (II) Terpyridine”
Jan A. Gertenbach, John S. Field, Raymond J. Haines, Jeffrey Moore, and David R. McMillin, Purdue University

4:00pm
Concluding Remarks