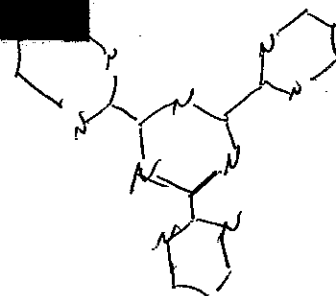
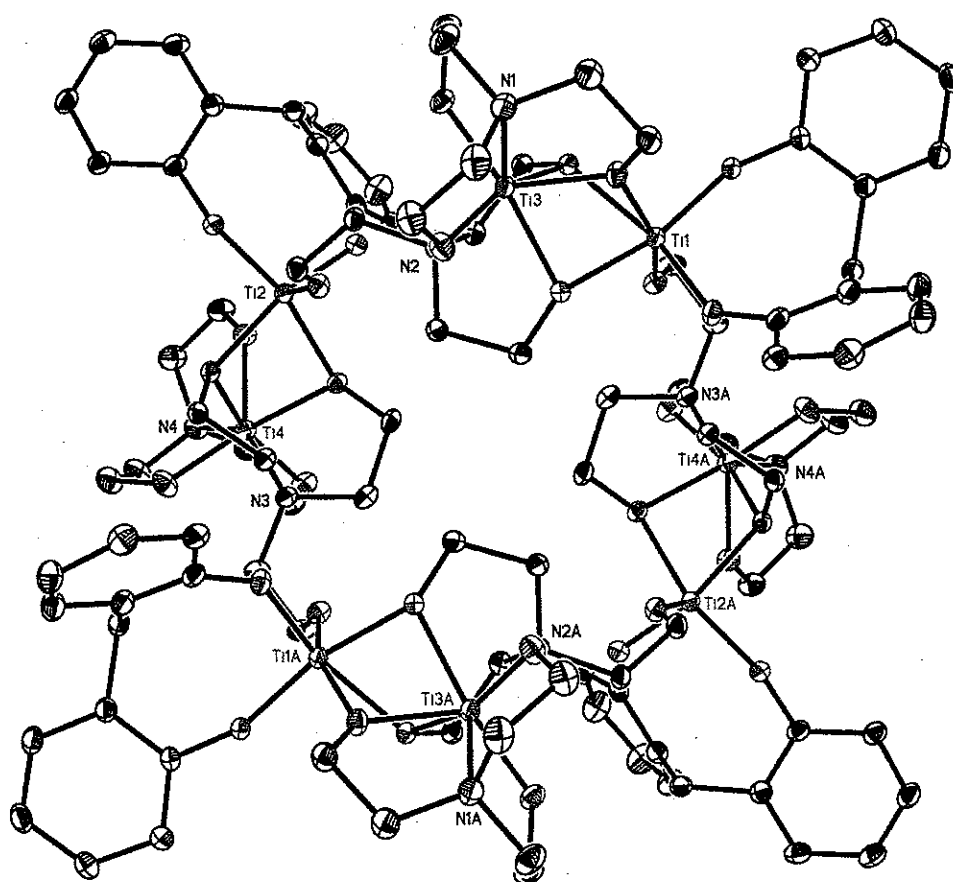
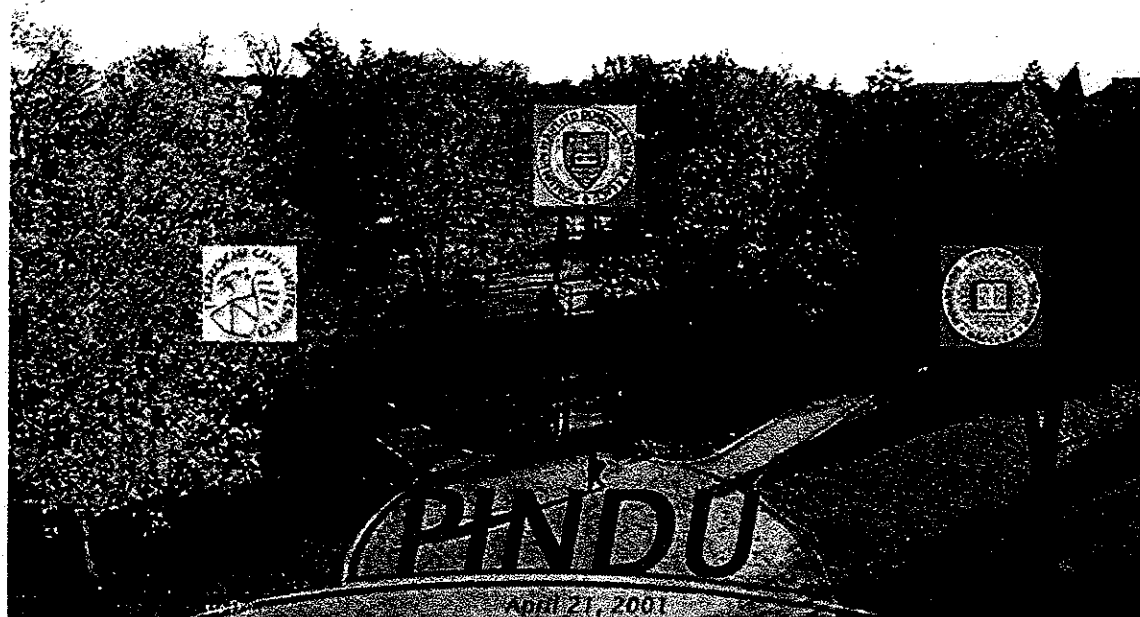


The University of Notre Dame presents



## 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)
- 4. Chemistry of Cyclopentadienyl Titanium Aryloxides.** Jongtaik Lee, Dana Tillison, Ian P. Rothwell, and Matt Thorn (Purdue)
- 5. Novel Titanatranes with Bulky Aryloxides: Synthesis, Structure, and Dynamics.** Aaron G. Maestri and Seth N. Brown (ND)
- 6. An Inorganic Perspective of Bergman Cyclization Reactions.** Pedro J. Benites, Diwan S. Rawat, and Jeffrey M. Zaleski (IU)
- 7. Mechanistic Studies of the Four Electron Reduction of *cis/trans* Azobenzene.** Margaret R. Lentz, Jon S. Vilaro, Mark A. Lockwood, and Ian P. Rothwell (Purdue)
- 8. New Chiral Derivatives of the Group 4 and 5 Metals.** Scott Schweiger, Matt Thorn, Ea-Ji-Ru Son, Scott Weinert, and Ian P. Rothwell (Purdue)
- 9. Synthesis, Structure and Reactivity of Pincer-ligated Ruthenium Hydrides.** Lori A. Watson, Joseph N. Coalter III, and Kenneth G. Caulton (IU)
- 10. Coordination Modes of 2-(Inden-3-yl)-4,6-di-*tert*-butylphenol.** Luke Turner, Matt Thorn, Ian P. Rothwell, and Robert Chesnut (Purdue)
- 11. Synthesis and Electrochemical Properties of the Mixed-Valence Complex**  
[[{(CN)<sub>2</sub>C=C(CN)<sub>2</sub>}<sub>2</sub>{Ru(bpy)<sub>2</sub>Cl}<sub>4</sub>][PF<sub>6</sub>]<sub>4</sub>.  
Jieying Jiao, George Sun, and Thomas P. Fehlner (ND)
- 12. Investigation of the Gas Phase Ion Chemistry and Thermochemical Parameters of Phenyltrifluorosilane.** Ian H. Krouse, Harvey A. Lardin, and Paul G. Wenthold (Purdue)
- 13. Reactions of [Re<sub>2</sub>Cl<sub>4</sub>(dppm)<sub>2</sub>] with MeLi, HCCH, and HCC(CH<sub>2</sub>)<sub>4</sub>CCH.** Mani Ganesan, Phillip E. Fanwick, and Richard Walton (Purdue)
- 14. An Investigation into the Reaction of (Cp\**Ru*)<sub>2</sub>B<sub>3</sub>H<sub>9</sub> with Co<sub>2</sub>(CO)<sub>8</sub>: 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  $\beta$ -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)
23. **Pulsed-Accelerated-Flow Studies of the Temperature Dependence of Fast Reactions.** Robert Becker, Wenzel Bartlett, Qian Lin, and Dale W. Margerum (Purdue)
24. **New Six-coordinate (Nitrosyl)iron(III) Porphyrinate Complexes.** Graeme R. A. Wyllie and W. Robert Scheidt (ND)
25. **Synthesis and DNA Studies of Bis Pyridyl Porphyrins.** A.H.Shelton, Rebecca K. Wall, Lisa C. Bonaccorsi, and David R. McMillin (Purdue)
26. **Synthesis and Characterization of Zirconium 10-Phosphonodecyl Disulfide Monolayers.** Xuejun Wang and Marya Lieberman (ND)
27. **Luminescence from Platinum(II), Palladium(II), Zinc(II), and Cadmium(II) Terpyridines.** D. G. Cuttell, 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 Metallabiochemistry of Toxins A and B of *C. difficile*.** Sudeep Bhattacharyay 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  $[(\text{acac})_2\text{Ru}]_2\text{bptz}]^{0,+1}$  on Chemically Modified Surfaces.** Bindhu Varughese, Sudha Chellamma, and Marya Lieberman (ND)
33. **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