

**2013 Sigma Xi Symposium Schedule**  
**May 3, 2013**  
**2:30 pm - 7:00 pm**

**Session 1: Oral Papers, 2:30-4:30 pm**  
**Nobel 201 and Nobel 222**

| Session 1A: Nobel 201 |  |
|-----------------------|--|
| 2:30<br>pm            | <b>The Effect of Color Contrast on Perception of Portion Size</b><br>Amanda Feeks  |
| 2:45<br>pm            | <b>Nucleophilic Reactions of Potassium Phthaloylphosphide</b><br>Tuan Tran   |
| 3:00<br>pm            | <b>Evaluating Trace Metal Contamination in an Abandoned Shooting Range</b><br>Jeffrey Allen  |
| 3:15<br>pm            | <b>Towards a Novel Switchable Aromatic Hemiporphyrizine Ligand</b><br>Dasha Grishina   |
| 3:30<br>pm            | <b>Origins of a Terrace Feature in Seven Mile Creek Park, MN</b><br>Jake Bruihler  |
| 3:45<br>pm            | <b>Analyzing and Presenting Resistivity Data from Emerald Mound Archeological Site in Attempt to Discover a Mississippian Trail</b><br>Michael DeLucia |
| 4:00<br>pm            | <b>Mapping Depth to Bedrock in a Tropical Pre-Montane Wet Forest</b><br>Rachel Oien  |
| 4:15<br>pm            | <b>A comparison of biogenic silica analysis using UV Vis and ICP-MS methods</b><br>Zachary Wagner  |

| Session 1B: Nobel 222 |  |
|-----------------------|--|
| 2:30<br>pm            | <b>Identifying an mRNA Directly Degraded by the Exosome in <i>Saccharomyces cerevisiae</i></b><br>Carl Schiltz   |
| 2:45<br>pm            | <b>The Impact of Innovation on Medical Education</b><br>Dawn Comstock  |
| 3:00<br>pm            | <b>Identifying and Targeting Progenitors of Cancer Cells through Data-mining Cell Sorting Data</b><br>Sarah Lucht  |
| 3:15<br>pm            | <b>Instituting the Concept of Well-being in Clients with Mental and Physical Instability and Disability</b><br>Daniel Sinda  |
| 3:30<br>pm            | <b>Oxygen Isotopic Analysis of Belemnites: Implications for Water Temperature and Life Habits in the Jurassic Sundance Sea</b><br>Amanda Adams                               |
| 3:45<br>pm            | <b>Qualitative and Quantitative Assessment of Taphonomic Patterns in Modern Algae and Cyanobacteria: Implications for Identifying Precambrian Microfossils</b><br>Tara Selly |
| 4:00<br>pm            | <b>Using Condonts to Determine Depositional Variability within the Decorah Formation of Eastern Minnesota and Iowa</b><br>Matt Illies  |

**Sigma Xi New Member Recognition Ceremony and Social  
Nobel Atrium  
4:30-5:00 pm**

**Session 2: Poster Presentations**  
*In association with the Celebration of Creative Inquiry\**  
**Jackson Campus Center**  
**5:00 pm – 7:00 pm**

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| <b>The Effect of Scopolamine Bromide on Spatial Learning By Rats</b><br>Eli Benz, Kat Dahl   |
| <b>Relationship Between Salicylate Induced Tinnitus And Circadian Rhythm</b><br>Kendra Braegelman  |
| <b>Synthesis of the Bifacial Ligand, 1,6,7,12-Tetraazaperylene: A New Approach</b><br>Nora Christensen, Michael Howe   |
| <b>Mapping Tree Growth and Survivorship in Monteverde, Costa Rica</b><br>Grant Cooper  |
| <b>Release Rates Of The Steroid Dexamethasone Phosphate (DSP) From Silicon Rods Used In Implantable Medical Devices</b><br>John Danforth, Chris Harmes, and James Arps (ProMed)  |
| <b>Towards a Novel Switchable Aromatic Hemiporphyrzine Ligand</b><br>Daria Grishina  |
| <b>Mapping the Period (PER) Binding Surface of the Circadian Clock Protein Cryptochrome (CRY)</b><br>Mariecus Jarvis, Audrey Messelt   |
| <b>Diels-Alder Reactions of Prochiral 1,5-Disubstituted Anthracenes Towards the Creation of Chiral Auxiliaries and Ligands</b><br>Danielle Mangine   |
| <b>Optical Imaging By Reflection Through Random Media</b><br>Briana Mork   |
| <b>Construction of Two-Fold Symmetric Phthalocyanines for the Purpose of Creating Linear Coordination Phthalocyanine Polymers</b><br>Emma Motl, Xi Wang, Bryan Miles, Kelly O'Neill, Kendyl Greimann, Kayla Hanninen   |
| <b>Mapping Depth To Bedrock In A Tropical Pre-Montane Wet Forest In Costa Rica</b><br>Rachel Oien  |
| <b>Reduced-Symmetry ABAC Metallophthalocyanine Complexes From a Tethered Phthalonitrile Trimer</b><br>Josie Steinmetz, Anna Ayers Looby, Kacy Lorber, Kayla Hanninen, Kendyl Greimann  |
| <b>Characterization Of Carbon-Modified Silicas For Use In Analytical Liquid Chromatography</b><br>Tuan Tran, Ian Gibbs-Hall, Paul Young, Doug Fryer (United Science, LLC), Conor Smith (United Science, LLC), Jon Thompson (United Science, LLC), Bill Barber (Agilent Technologies) |
| <b>Characterization of Diffuse Media with Laser Speckle</b><br>James Trevathan   |

\* *Sigma Xi Posters should be marked with a Sigma Xi Logo*