

2011 Sigma Xi Symposium Schedule

May 6, 2011

2:45 pm - 7:00 pm

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| Session 1: Oral Papers | |
| Nobel 201 | |
| 2:45 pm-5:15 pm | |
| 2:45 pm | Protected Areas and Conservation Abby Williams |
| 3:00 pm | Dissolved Organic Carbon and its Interaction with Metals in Aquatic Systems Erik Swanson |
| 3:15 pm | Effects of the Invasive Species <i>Phragmites Australis</i> on the Biogeochemical Cycle of Silica on the Platte River, Nebraska Carson Smith |
| 3:30 pm | Analysis of Cytochrome P450 Variation in Benthopelagic Fishes from the Gulf of Mexico in Response to Oil Spill Exposure Josh Hammer and Justin VerMeer |
| 3:45 pm | Break |
| 4:00 pm | The Effect of Histone 3.3A on <i>Drosophila melanogaster</i> Fertility Stephanie Snyder |
| 4:15 pm | Where does the Hindu God Stand? Jean-Paul Noel |
| 4:30 pm | Attentional Effects of Natural Environments Alex Gjorvad |
| 4:45 pm | Elimination of Standing Wave Effects in Ultrasound Radiation Force Excitation in Air Using Random Carrier Frequency Packets Nathaniel Beaver |
| 5:00 pm | Physiological Allostatic Model of Theater Performance: Cortisol Response in Actors Following a Performance Cassandra L. Breitenfeldt |

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| <p>Session 2: Poster Presentations</p> <p><i>In association with the Celebration of Creative Inquiry*</i></p> <p>Jackson Campus Center</p> <p>5:00 pm – 7:00 pm</p> |
| <p>Trace Metal And Dissolved Organic Matter Cycling In An Ombrotrophic Bog</p> <p>Ben Carlson</p> |
| <p>Preparation of 1,3,2-Oxazaphospholidine-2-oxide Derivatives as Models for the Development of Novel Chiral Auxiliaries</p> <p>Steven Lundberg</p> |
| <p>Analyte Retention and Column Performance of Drugs in Hydrophilic Interaction Liquid Chromatography on Carbon-on-Silica Columns</p> <p>Laura Secor and Carrie Johnson</p> |
| <p>Assessment Of College Adjustment And Autonomy In Relation To Parenting Styles</p> <p>Caroline Hendrickson</p> |
| <p>Photodegradation of Flumetsulam and Nicosulfuron Herbicides</p> <p>Derrick Berndt</p> |
| <p>Acoustical Studies of Bjorling Recital Hall</p> <p>Benjamin Wolf</p> |
| <p>A Renewed Look at Renewables</p> <p>Amanda Hochstatter and Hasanga Samaraweera</p> |
| <p>Environmental Context Effects on Lexical Processing</p> <p>Laura Kientzle and Caitlin Bayer</p> |
| <p>Interaction of Negative Ions with X-Rays</p> <p>Amy Audette</p> |
| <p>Isolation, Transformation, and Characterization of <i>S. cerevisiae fumarate dehydrogenase</i> Point Mutations</p> <p>Daniel Rohlf and Justin Anderson</p> |
| <p>Post-transcriptional Regulation of Metalloprotein II (MPII)</p> <p>Xiu Xiao, Krishan Jethwa, Gamachu Melkamu, and Nick Guttormson</p> |
| <p>Identification of New Brain Cancer Target Sites from Bioinformatic Analysis of Acupuncture Studies</p> <p>Courtney Murphy</p> |

* Sigma Xi Posters should be marked with an oval Sigma Xi 125th Anniversary Logo