

2009 Sigma Xi Symposium Schedule

May 1, 2009

1:30 pm – 4:45 pm

Session 1a—1:45 pm to 3:00 pm Nobel 105 Chair: Brian O'Brien	Session 1b—1:30 pm to 3:00 pm Wallenberg auditorium Chair: Sanjive Qazi
	1:30 pm <i>Strategies for neural and immune responses to provide mechanistic understanding of Holistic Medicine</i> Ashley Baumann, Rebecca Dove, Jeanifer Poon
1:45 pm <i>All-Vanadium Redox Battery</i> Ryan Espy	1:45 pm <i>Between Leaf Scars and Roots in the Fern Genus, Botrychium</i> Colette Brandt and Ashley Grivna
2:00 pm <i>Spectroscopic Investigation of the Pyrazole System</i> Molly Beernink	2:00 pm <i>Cloning and Expression of Myohemerythrin and Metalloprotein II</i> Jessica Moertel
2:15 pm <i>The Preparation of New Hydrocarbon-Cisplatin Anti-tumor Drugs</i> Joel Rindelaub	2:15 pm <i>Solvent Signal Suppression Using WEFT and Decoupler Pulse Sequences</i> Veronica Taylor
2:30 pm <i>Ravine Development and Bank Recession of Ravine Z in Seven Mile Creek Park</i> David Koppel	2:30 pm <i>Gluek Pond Restoration Plan, Minnesota Regional Treatment Center</i> Stephanie Erlandson
2:45 pm <i>Evidence of a Paleochannel Prior to the Present Le Sueur River Channel in Mankato, MN</i> Mikayela Munson	2:45 pm <i>Happiness and Related Components in Chilean and American Culture</i> Emma Espel

3:00 pm-3:30 pm Poster Session and Reception in Nobel Lobby

<i>Solar Power at Gustavus</i> Anna Schuh
<i>Optimization of Column Choice for Trace Analysis of Triclosan in River Water using Heartcutting Three-Dimensional High Performance Liquid Chromatography</i> Scott Simpkins
<i>All-Vanadium Redox Battery</i> Ryan Espy
<i>Shadow Analysis of Wind Turbines</i> Kyle Hulbert
<i>You Mean I Came All This Way For Nothing? Investigation of Potential Sperm Storage Mutants in Drosophila Melanogaster</i> Pauline Jackson
<i>Hold On! Female Sperm Storage in Drosophila Melanogaster</i> Heather Rusk
<i>lozenge is Required for Normal Sperm Storage Patterns in Drosophila melanogaster Females</i> Isaac Weeks

Session 2a—3:30 pm to 4:45 pm Nobel 105 Chair: Laura Triplett	Session 2b—3:30 pm to 4:45 pm Nobel 201 Chair: Margaret Bloch Qazi
3:30 pm <i>Mineralogy and Metamorphism of the Stromatolite Bearing Layers of the Biwabik Iron Formation</i> Dan Foley	3:30 pm <i>Non-Contact Modal Excitation of Micro-Cantilevers using Ultrasonic Radiation Forces</i> Brad Abell, Dan Mellema
3:45 pm <i>Geomorphology of Naran Khondii, Hoh Serh Range, Mongolian Altai, Western Mongolia</i> Kathryn Ladig	3:45 pm <i>Female response to oxidative stress depresses early stage fertility in <i>Drosophila melanogaster</i></i> Leah Hogdal
4:00pm <i>The Stratigraphy of Seven Mile Creek Park And Implications For Ravine Growth And Other Geologic Processes Within The Park.</i> Elliot Peterson	4:00 pm <i>The effects of group synchrony on cooperation, prosocial behavior, and mood.</i> Susie Kramer
4:15 pm <i>A chemical analysis of sediment sources in the Le Sueur River, southern Minnesota</i> John Leaf	4:15 pm <i>Allosteric behavior of monomeric <i>E.coli</i> gamma-GCL in the presence of non-substrate analogs</i> Colin Boettcher and Chelsea Koepsell
4:30 pm <i>Strain analysis in Archean rocks of the Virginia Horn area of northeastern Minnesota</i> Ben Christensen	4:30 pm <i>Preparation of Fluorinated (P-Aryl)Phthaloylphosphines and New Phosphorus-based Fluorinated Anions</i> Jason Schultz