2012 Sigma Xi Symposium Schedule May 4, 2012 2:30 pm - 7:00 pm

Session 1: Oral Papers Nobel 201 and Nobel 222

Session 1A: Nobel 201	
2:30 pm	Spatial Distribution and Fate of Trace Metals in Ombrotrophic Peat Bogs
	Nick Alverson
2:45 pm	Methylmercury Dynamics in the Porewaters of an Ombrotrophic
	Peatland
	Alison Agather
3:00 pm	Sediment Core Analysis of Lakes in Alaska and Newfoundland
	Michael Walker
3:15 pm	Sediment Exchange between a Marsh and an Adjacent Submersed
	Aquatic Vegetation (SAV) Bed in Chincoteague Bay, MD
	Andrea Eglinton
3:30 pm	Comparison of Marine and Terrestrial Climate Models to Geologic
	Evidence from the Permian-Triassic Boundary
	Todd Kremmin
3:45 pm	Gunflint Iron Formation Microfossils
	Joe Curran
4:00 pm	Strain Analysis of Archean, Metasedimentary Rocks in the Virginia Horn
	Robert Holder

Session 1B: Nobel 222	
2:30 pm	Renewable Energy: Development of Undergraduate Laboratory Exercises
	in a Sustainable Energy Paradigm
	Amy Audette and Kevin Clark
2:45 pm	Development of a Time-Of-Flight Mass Spectrometer Using Radial
	Extraction from a Linear Quadrupole Ion Trap
	Brandon J. Furey
3:00 pm	Cadmium Binding and Dimer Formation in Metalloprotein II
	Sarah Lucht
3:15 pm	HPLC Method Development and Verification for the Analysis of
	Imazamethabenz-methyl
	Megan Crow
3:30 pm	Hatch plasticity in sheepshead minnow embryos in response to predators
	Ethen Degner
3:45 pm	The Voices of Hidden Memories and Brain Arousal
	Krista Primley
4:00 pm	Magnesium Impacts Conformational Changes in Myosin V Motor Protein
	Anja Swenson

Sigma Xi New Member Recognition Ceremony and Social Nobel Atrium 4:15-5:00 pm

Session 2: Poster Presentations

In association with the Celebration of Creative Inquiry*

Jackson Campus Center

5:00 pm - 7:00 pm

Mineralogy of Crystal and Matrix: Implications for Preservation of Dinosaur Bones Amanda Adams

Hatch plasticity in sheepshead minnow embryos in response to predator presence Ethen Degner

Mapping the Period (PER) binding surface of the circadian clock protein Cryptochrome (CRY)

Audrey Messelt and Mariecus C. Jarvis

Awareness of Attentional System and Spatial Judgments

Jean-Paul Noel and Anthony Mefford

Toward Developing Intramolecular Diels-Alder Reaction Involving 2-trialkylsiloxyfurans

Michael Sterling

Morphological and Molecular Genus Placement of the Gulf of Mexico Snakefish (Trachinocephalus myops)

Kimberly Sukhum

Determining Dispersal Patterns of Benthopelagic Fishes by Comparing Genetic Code and Calculating FST

Grant Walters

Synthesis of Chiral "Propeller" Trisphthalocyanine Complexes

Alexandria Ceranske and Biao (Toby) Tong

Preparation of Covalent and Coordination Polymers Containing Phthalocyanine Units

Greg Wiessner and Emma Motl

Approaches to the Synthesis of a Novel Bifacial Ligand, 1,6,7,12-Tetraazaperylene Michael Howe

Evaluation of phosphinic and phosphonic fluorosurfactant mixtures as possible PFOA replacements in PTFE emulsion polymerization

Anthony J. Cesnik

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