2014 Sigma Xi Symposium Schedule Gustavus Adolphus College May 2, 2014

2:30 pm	Developing a New Method for Synthesizing Primary Arylphosphines Carl Schiltz Advisor: Brian O'Brien
2:45 nm	
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2·45 nm	Advisor. Bridit O Bricii
2:45 pm	The Prevalence and Plasmid Profile Analysis of Antibiotic Resistant Escherichia coli among
	College-Aged Adults
	Mikie Phan
	Advisor: John M Lammert
3:00 pm	Mercury Dynamics In Sub-Arctic Lake Sediments Across A Methane Ebullition Gradient
	Lance Erickson
3:15 pm	Characterization of Gamma-Glutamylcysteine Ligase
	Beth Wiese and Katie Diederichs
	Advisor: Dr. Brenda Kelly
3:30 pm	Taphonomy of Bison Bones from the Des Moines River
	Dominic Delmont
	Advisor: Hilary Christensen
3:45 pm	Sediment Mobilization in Ravines Draining Minnesota Cropland
	Andrew Wallace Choquette
	Advisor: Laura Triplett
4:00 pm	Bison Remains: Migration, Diet and Climate
	Kara Helgeson
	Advisor: Hilary Christensen
4:15 pm	Rare earth element trace of bison fossils in the Des Moines River with unknown origins
	Serenity Mahoney
	Advisor: Hilary Christensen
	Sigma Xi New member reception 4:30 Nobel Hall Atrium

Session 2: Poster Papers sponsored by Sigma Xi Presented at the Celebration of Creative Inquiry Jackson Campus Center, 5:00 pm to 7:00 pm

Characterization of Monomeric and Dimeric Gamma-Glutamylcysteine Ligase

Katie Diederichs, Emily Hamberg, Stefano Rosati, Beth Wiese

Advisor: Brenda Kelly

The Gustavus AMO Lab: Time of Flight Mass Spectrometer and Coulomb Crystals

Will Doebler, Joshua Wolanyk

Advisor: Jessie Petricka

Cryptochrome Interactions With Other Circadian Clock Proteins

Hana M. Fischer, Monica E. Johnson, Stefano W. Rosati, Claire E. O'Neill

Advisor: Karla E. Marz

Towards Synthesis of a Novel Switchable Aromatic 8,10,21,23-tetrahydroxyhemiporphyrazine Ligand

Daria Grishina

Advisor: Thomas Gardner

Investigating The Relationship between Salicylate-Induced Tinnitus And Circadian Rhythmicity

Travis Sigafoos

Advisor: Janine Wotton