

Chemistry Department

Senior Thesis



SATURDAY, APRIL 24, 2010

WICK SCIENCE BUILDING

ROOMS 107, 119, 122, 124, 125

ST. CLOUD STATE UNIVERSITY

CORNER OF EIGHTH STREET AND FIRST AVENUE SOUTH

9:00 A.M. — 12:00 P.M.

Please join us for refreshments at 8:30

Chemistry Senior Thesis Presentations

<i>Session # 1</i> <i>WSB-107</i>		
Faculty	Dr. Mechelke Dr. Petitto	
<i>9:00 – 9:45</i>	Joshua Hary	Cholesterol Aggregation and Morphology: An Investigation of Anticoagulant Effect using Scanning Electron Microscopy
<i>9:45 – 10:30</i>	Ann Marsolek	The Use of Different Types of Dye Terminators in DNA Sequencing: A Literature Search
<i>10:30– 11:15</i>	Shannon Peterson	A Literature Review of Bisphenols: Endocrine Mimicking Properties and Mechanism of Action
<i>11:15– 12:00</i>	Anna Steinhoff	Synthesis of Novel Acyclic Goniothalamine Analogues

<i>Session # 2</i> <i>WSB-119</i>		
Faculty	Dr. Mahroof Dr. Neu	
<i>9:00 – 9:45</i>	Sisay Girmay	Synthesis, Characterization and DNA Interaction Studies of Titanium-Flavonoid Complexes using Viscometry
<i>9:45 – 10:30</i>	Corrie Barnowsky	Investigation of the Aggregation of Cholesterol and Effect of Anticoagulants & Soy Lecithin using Viscosity Measurements
<i>10:30 – 11:15</i>	Laura Koopmeiners	Structure and Function of HMG-CoA Reductase with Naturally Derived Statin Drugs
<i>11:15 – 12:00</i>	Andrew Matsuura	Fluorescence and Lifetime Characterization of Rubrene

Chemistry Senior Thesis Presentations

<i>Session # 3</i> <i>WSB-122</i>		
Faculty	Dr. Dvorak Dr. Ramakrishnan	
<i>9:00 – 9:45</i>	Rajan Thapa	Study of the Effect of Galantamine and Riluzole on Beta-Amyloid (1-42) Aggregates using Fluorescence and Atomic Force Microscopy
<i>9:45 – 10:30</i>	Robert Payne	Activation of NLRP3 Inflammasome by Titanium Dioxide Nanowires
<i>10:30– 11:15</i>	Tong Xiong	Nanotoxicity of Nanoparticle in Iron Oxide
<i>11:15– 12:00</i>	Dennis Luke	Anticancer Activities of RuCDTA and TiCDTA and their Interactions with DNA.

<i>Session # 4</i> <i>WSB-124</i>		
Faculty	Dr. Jeannot Dr. Sreerama	
<i>9:00 – 9:45</i>	Kristin Buzzelli	Analysis and Fluorescence Characterization of Turbine Oils
<i>9:45 – 10:30</i>	Russel Kerfeld	A Literary Review of the Regulation of Doxorubicin by ATP-Binding Cassette B1
<i>10:30– 11:15</i>	Lucas Johnstone	Bulk Charge Carrier Mobility in Tetracene Derivatives at Low Temperatures
<i>11:15– 12:00</i>	Jyotindra Acharya	Planarians as Model to Understand Epilepsy

Chemistry Senior Thesis Presentations

<i>Session # 5</i> <i>WSB-125</i>		
Faculty	Dr. Leenay Dr. Winter	
<i>9:00 – 9:45</i>	Adam Schanen	Investigation in Approximation Methods, Potential Energy Surfaces in Quantum Mechanical Calculations of O+OH and N+O2 Chemical Reactions
<i>9:45 – 10:30</i>	Jay Terry	Natural Product Synthesis for the Undergraduate Laboratory
<i>10:30 – 11:15</i>	Mohamed Traore	Fermentation of Biomass Pretreated with Sulfuric Acid and Bleach via Clostridium Phytofermentans
<i>11:15 – 12:00</i>		

*For parking regulations and directions,
please go to
<http://www.stcloudstate.edu/campusmap/default.asp>*

The closest lots are Lot F, H, and J.

