

## Chemistry Senior Thesis Presentations

Session # 5 WSB-125		
9:00 – 9:45	Allie Brandriet	A Comparison of Upper-level Chemistry Majors' and Chemistry Experts' Knowledge of Physical Change and Environmental Topics
9:45 – 10:30	Sarah Ertl	Engineering a Cyclic Peptide Phage Display Library with Seven Random Positions, and Unnatural Amino Acid Incorporation into a Protein to Investigate Protein Interactions in E. Coli
10:30 –11:15	Michael Maher	From Synthesis to Chemoprevention: Application of Novel Goniothalamine Analogues on MCF-7 Cells for Assessment of Cytotoxicity
11:15 –12:00	Donald Wenz	Synthesis, Characterization and DNA Interactions of Metal Complexes using Atomic Force Microscopy

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

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



# Chemistry Department

# Senior Thesis



SATURDAY, APRIL 25, 2009

WICK SCIENCE BUILDING

ROOMS 110, 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

Presented on Wednesday, April 29		
12:00	Sarah Pietruszewski	Tamoxifen

Session # 1 WSB-110		
9:00 – 9:45	Tom Anderson	The Effects of Aldehyde Dehydrogenase 2 on the Cardiovascular System
9:45 – 10:30	Shawn Broderick	The Use of Double Perovskites as an Anode Material and the Direct Use of a Hydrocarbon Fuel Source in Solid Oxide Fuel Cells
10:30– 11:15	Jason Hein	Investigation of Carbamazepine Binding Interactions with Neuronal Nicotinic Acetylcholine Receptor Subtype $\alpha 4\beta 2$
11:15– 12:00	Manjit Maskey	Vanadium-Flavonoid Complexes as an Inhibitor of Enzymes Involved in the Glucose Metabolism

Session # 2 WSB-119		
9:00 – 9:45	Giovanni Antunez	Human ALDH3A1 Genetic Polymorphism Analysis
9:45 – 10:30	Kyle Danielson	Photolysis of Phenyl Isothiocyanate and Quenching of the Sulfur Atom
10:30 – 11:15	Jocelyn Hong	The Biochemical Basis for the Antimicrobial Activities of Parabens
11:15 – 12:00		

## Chemistry Senior Thesis Presentations

Session # 3 WSB-122		
9:00 – 9:45	Kyle Middleton*	Briefly Exploring Excel Modeling as a Means to Enhancing Student Learning of Acid Base Chemistry in an Analytical Chemistry Classroom
9:45 – 10:30	Assefa Ayalew	Role of Human Aldehyde Dehydrogenase 7A1 on the Metabolism of Anticancer Drug Cyclophosphamide and Environmental Contaminants
10:30– 11:15	Michael Eannelli	Characterization and Solution Speciation Studies of Oxovanadium-Flavonoid Compounds and their Potential Anti-Diabetic Properties
11:15– 12:00	Lori Kluball	The 5-Hydroxytryptamine (5-HT) Receptor: Subtype 3, a Ligand-Gated Ion Channel Receptor and Subtypes 1B and 1D, G-Protein Coupled Receptors

\* Chemistry Education Requirement—not registered in CHEM 491.

Session # 4 WSB-124		
9:00 – 9:45	Anisa Battah	Mechanism of Action of Herceptin
9:45 – 10:30	Jarred Engelking	Enantioselective Synthesis of Trans-2,5-Disubstituted Pyrrolidines
10:30 – 11:15	Jason Leet	Fluorescence Life Time Study of Tetracene
11:15 – 12:00	Kayla Vujovich	Zaragozic Acid as a Cholesterol Reducing Agent through the Inhibition of Squalene Synthase