

# Chemistry Department

# Senior Thesis



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Friday, December 5, 2008

WICK SCIENCE BUILDING

ROOMS 119, 122, 125

ST. CLOUD STATE UNIVERSITY

CORNER OF EIGHTH STREET AND FIRST AVENUE SOUTH

4:00 P.M. — 7:00 P.M.



## Chemistry Senior Thesis Presentations

Session # 1 WSB-119		
4:00 – 4:45	Caroline Zwack	GABA <sub>A</sub> Receptor: A Study of Reported Mutations and their Implications in Epilepsy
4:45- 5:30	Natalya Dyakulich	A Review of Cardio Therapies and the Mechanism of Carvedilol in the Treatment of Heart Diseases
5:30- 6:15	Daniel Gulbranson	Method Development for the Determination of Ibuprofen Concentrations in Surface Water by Liquid Phase Microextraction-Gas Chromatography/Mass Spectrometry

## Chemistry Senior Thesis Presentations

Session # 3 WSB-125		
4:00 – 4:45	Alexander Willing	Synthesis and Characterization of Vanadium and Titanium Complexes with Flavonoids in Solid and Solution State and their Potential of Antidiabetic and Anticancer Properties
4:45- 5:30	John Herold	Anticancer Activities of Ruthenium and Titanium Complexes

Session # 2 WSB-122		
4:00 – 4:45	Kenan Drugzani	Phosphatidylinositol-3 Kinase (PI3K): Role in Cellular Signaling and Its Mode of Action in Diabetes
4:45- 5:30	Jolene Tourville	The Link between Chocolate and Theobromine Toxicity in Dogs, and the Role of Cytochrome p450 in Theobromine Metabolism
5:30- 6:15	Yawosse Dagban- Ayivon	Subcloning, Purification and Characterization of Human Aldehyde 5A1 (Microsomal Dehydrogenase) and its Role in Oxidation of Ethylene Glycol Ethers