Honors Colloquium I

This is the first of three Honors Colloquiums for our undergraduate students to present their honors projects.

Initial Conditions for Progressive Colorings
Moses Koppendrayer

Abstract: Progressive coloring is a coloring algorithms for graphs, a graph begins with some vertices colored and some uncolored. Under certain circumstances some or all of the uncolored vertices can be colored. A natural question to ask is how many vertices have to be initially colored for every vertex in a graph to be eventually colored. This question seems difficult to answer in full generality, this talk will discuss a nearly complete solution for a special class of graphs, the cross product of a cycle by itself.

The Impact of Road Salt Runoff on Chloride Concentrations in Lake Superior
Andrew Schneider

Abstract: Twice a year the research vessel R.V. Blue Heron gathers data from two locations in the Duluth harbor and three locations in Lake Superior. The data includes conductivity, temperature, depth (pressure), pH, O2 saturation, Chlorophyll A, photo-synthetically active radiation (PAR), and specific conductance. Of the measurements taken, we examined conductivity and specific conductance. We analyzed the data set to investigate changes in chloride levels in the western arm of Lake Superior and to determine if there are any direct correlations between the chloride levels in Lake Superior and the total tonnage of salt used each year in the Duluth area.

Thursday, March 28, 2013
3:00 PM - 4:00 PM
Refreshments will be provided
Chemistry 150
EVERYONE IS WELCOME