

# CWSF 2008 - Ottawa, Ontario



## Adrian Howie

### Sink The CO2

**Division:** Engineering & Computing Sciences / Environmental Innovation

**Category:** Intermediate

**Region:** Halifax

**City:** Halifax, NS

**School:** St. Agnes School

**Abstract:** Aquatic Ecosystems contain billions of phytoplankton, microscopic plants that are the base of aquatic food chains. These tiny plants have the ability to sequester CO<sub>2</sub> from the environment. Factors that affect CO<sub>2</sub> sequestration include temperature and species of algae. The design for these experiments included measuring the CO<sub>2</sub> Sequestration of five species of unicellular algae, Isochrysis, Pavlova, Tetraselmis, Chlorella, and Scenedesmus, under different temperatures.

### Biography

My name is Adrain Howie, I'm 15 years old and I live in Halifax Nova Scotia. I'm in grade 9 at St Agnes Junior High. I have lived in Halifax most of my life except for grades 5 and 6, when I lived in Ottawa. My favourite sport is tennis; I play it all year round. I am active in my community and in my church. I did the regional science fair for three years now, and this is the second time going to nationals.

### Awards

### Value

The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Earth & Environmental Sciences - Intermediate Sponsor: Petro-Canada	\$300
Total	\$1 300