

## CWSF 2005 - Vancouver, British Columbia



### Madeleine Martin

#### Managing Greenhouse Gas Exchange in a Constructed Wetland Model

**Division:** Earth & Environmental Sciences

**Category:** Intermediate

**Region:** Bay Area

**City:** Hamilton, ON

**School:** Bishop Ryan Catholic Secondary School

**Abstract:** A constructed wetland is a human-made swamp or marsh built to filter water contaminants. Although they are efficient and cost-effective, wetlands release large quantities of greenhouse gases. The purpose of this experiment was to reduce gas quantities emitted by a wetland model by managing the factors affecting wetland gas exchange.

Awards	Value
The University of Western Ontario Scholarship Silver Medallist - \$1500 Entrance Scholarship Sponsor: University of Western Ontario	\$1 500
Silver Medal - Earth & Environmental Sciences - Intermediate Sponsor: Petro-Canada	\$700
Total	\$2 200