



CWSF 2008 - Ottawa, Ontario



Biography

I am a grade nine student at Nicholson Catholic College in Belleville, Ontario, with an interest in science, writing and fine arts. I have received several awards at previous science fairs at a regional level and a silver medal with my partner when we attended the 2006 CWSF for our project on surface changes and the migratory paths of leopard frogs. I enjoy soccer, badminton and running and do volunteer tutoring at a local elementary school. I received the award for the top academic standing in my pre IB junior high school program last year. I am attending a French language program in Quebec City this summer.

Fiona Emdin

Priming and exogenous treatments for salt stress in Phaseolus vulgaris.

Division: Engineering & Computing Sciences / Environmental Innovation

Category: Intermediate

Region: Quinte
City: Picton, ON

School: Nicholson Catholic College

Abstract: Saline soil has become an increasing problem globally. The effects of priming with NaCl, glycine betaine and H2O2, and of exogenous

applications of inoculant, salicylic acid, glycine betaine, silicon, CaSO4 and KH2PO4 on Phaseolus vulgaris grown under salt stress, were compared in two greenhouse trials. Exogenous applications of inoculant and silicon produced significant ameliorative treatment effects on mean shoot length;

inoculant on fresh weight.

Awards	Value
The University of Western Ontario Scholarship	\$1 500
Silver Medallist - \$1500 Entrance Scholarship	
Sponsor: University of Western Ontario	
Honourable Mention - Environmental Innovation - Intermediate	\$100
Sponsor: EnviroExpo, Presented by VIA Rail Canada	
Silver Medal - Earth & Environmental Sciences - Intermediate	\$700
Sponsor: Petro-Canada	
Total	\$2 300



