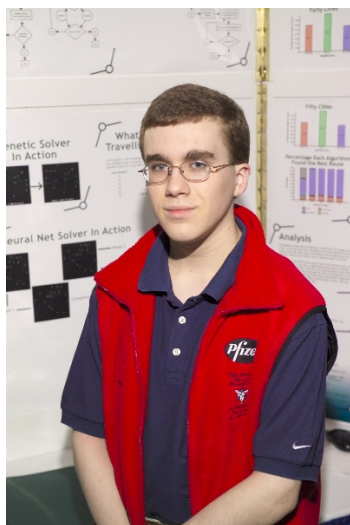


## CWSF 2005 - Vancouver, British Columbia



### Justin Reardon

#### Als and the Travelling Salesman Problem

**Division:** Physical & Mathematical Sciences

**Category:** Intermediate

**Region:** Renfrew County

**City:** Petawawa, ON

**School:** Bishop Smith Catholic High School

**Abstract:** This project is a comparison of three different types of artificial intelligence to see which one finds the best solutions for instances of the Travelling Salesman Problem. The three AI's compared are implementations of a genetic algorithm, a Self-organizing Neural Network, and an Ant Colony System.

Awards	Value
Petro-Canada Peer Innovation Award - Intermediate Ontario North & East Sponsor: Petro-Canada	\$200
Honourable Mention - Physical & Mathematical Sciences Intermediate Sponsor: Encana Corporation	\$100
Total	\$300