

# CWSF 2009 - Winnipeg, Manitoba



## Adrienne Kay Morgan

### Just Add Water

**Division:** Health Sciences / Environmental Innovation

**Category:** Junior

**Region:** Frontenac, Lennox & Addington

**City:** Yarker, ON

**School:** Odessa P.S.

**Abstract:** The objective of this project was to design an inexpensive, portable, solar-powered desalinator that is simple to use and durable. The goal for this small-scale desalinator is for it to be used in remote communities without adequate potable water. The final design is compact and energy-efficient and produces good, clear water fit for human consumption.

### Biography

Adrienne Morgan is a Grade 8 student in the Challenge Program at Odessa Public School. Science has always been one of her favourite subjects and she hopes to study either life sciences (and eventually veterinary medicine) or engineering in university. She plays both piano and violin. She is working on her Grade 8 Royal Conservatory of Music in piano. She plays violin in Stringtown, a jazz orchestra in Kingston as well as the Quinte Symphony in Belleville, Ontario. Academics and school are only part of her life. She is a competitive swimmer with the Ernestown Barracuda Swim Club, she figure skates at the Loyalist Winter Club, and she runs with Physi-KULT, a local running club. In the summer, she participates in triathlons, and she is hoping to make it to the Ontario Summer Games for triathlon in 2010. Ballet and tap dancing keep her flexible and light on her feet! She has participated on her school's cross-country, soccer, volleyball and basketball teams. Adrienne loves the outdoors, especially camping and canoeing. She lives in Yarker, a small village outside of Kingston with her parents, older brother Blair, golden retriever Sarah and two cats Rosie and Binks.

### Awards

### Value

CSSE Engineering Innovation Award - Junior Sponsor: Canadian Society for Senior Engineers	\$500
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Honourable Mention - Environmental Innovation - Junior Sponsor: EnviroExpo, Presented by VIA Rail Canada	\$100
Bronze Medal - Engineering - Junior Sponsor: Youth Science Canada	\$300
<b>Total</b>	<b>\$1 900</b>