

# CWSF 2011 - Toronto, Ontario



## Derek Churchill

### Busy Biomonitors

**Challenge:** Environment

**Category:** Junior

**Region:** Windsor

**City:** Windsor, ON

**School:** Talbot Trail P.S.

**Abstract:** Chemical analyses were performed on water samples from three river sites within the Detroit River watershed. *Daphnia magna* was used as a biological monitor. Acute, chronic, and reproductive tests were done with the *Daphnia* to study the effects of the contaminants on their survival and fecundity. *Daphnia* proved to be an effective biomonitor, indicating water quality problems in Turkey Creek, and the Grand Marais Drain.

### Biography

My name is Derek Churchill and I attend Talbot Trail Public School in Windsor, Ontario. I am in grade eight and I have been attending this school for five years. I am involved in many school activities such as long distance running, track and field, the chess team, and the school band. My favourite subjects are science, math, geography, and history. I enjoy music very much; I play the piano and the clarinet. My interests include spending time with family and friends, swimming, karate, and video games. I love science and participated in the Windsor Regional Science Fair in grade seven where I was successful. I received a gold medal, and two engineering awards for my project. This year I decided to do a project that focuses on the environment. It will be my first time at the Canada Wide Science Fair.

### Awards

### Value

Excellence Award - Junior - Silver Medal Sponsor: Youth Science Canada	\$700
The University of Western Ontario Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario	\$2 000
<b>Total</b>	<b>\$2 700</b>