



## CWSF 2010 - Peterborough, Ontario



## Alyssa Borutski

## **PiezoPower**

**Division:** Life Sciences

Category: Senior

**Region:** Renfrew County **City:** Barry's Bay, ON

School: Madawaska Valley District H.S.

**Abstract:** Polyvinylidene Fluoride (PVDF) is a highly piezoelectric material that is

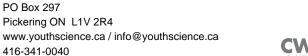
highly non-reactive and also a pure thermoplastic fluropolymer. Using this material and the concept of piezoelectricity, a method has been developed to harvest the mechanical energy from falling raindrops and convert it into

usable electrical energy.

## **Biography**

My name is Alyssa Borutski and I attend Madawaska Valley District High School in Barry's Bay, Ontario. I am very involved within my school community and have participated in a number of varsity athletic teams, including, basketball, volleyball, soccer and badminton, too name a few. In the winter I am a ski instructor at the local ski hill, and in the summer I participate in a number of farmer's markets, selling my hand-crafted jewlery. I am very interested in science and would like to persue a career in medicine.





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