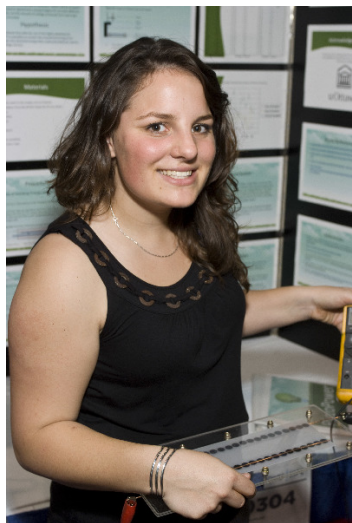


CWSF 2010 - Peterborough, Ontario



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 fluoropolymer. 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 jewelry. I am very interested in science and would like to pursue a career in medicine.