

# CWSF 2009 - Winnipeg, Manitoba



## Michael Brogee

### Powerwalk

**Division:** Health Sciences / Environmental Innovation

**Category:** Junior

**Region:** Quinte

**City:** Stirling, ON

**School:** Stirling Senior P.S.

**Abstract:** In my project "Power-walk", I created a shoe attachment that charges batteries using the action of walking. This mechanism consists of a manual dynamo fixed to the shoe. The motion of taking a step, passes electricity to rechargeable batteries. With this attachment, people reduce their carbon emissions, save money on batteries, and get exercise in the process.

### Biography

Vigorous athletics, creative music, strong leadership and high end academics are exactly who I am and what I do. I involve myself in several sports year-round. Being an avid hockey player, I am one of nine goalies from Ontario selected for an invitation only summer training program. As for school sports, I am regularly part of the soccer, volleyball, basketball, baseball, relay and track and field teams. In the spring, I play minor league football as a "Full Back". Playing guitar is not just a pleasure for me, it is a necessity. I perform at monthly coffee houses and I have currently written 8 songs. In addition to the guitar, I also sing, play the bass, mandolin, dobro, piano and the trumpet. Getting involved in school activities promotes leadership and community engagement. I am a member of the Student Council and Athletic Leadership Council. My job is to connect the circle of the school to the community, and back again. Academic excellence is something I strive for. I believe that school should be fun as well as challenging. My goal is to graduate at the top of my class.

### Awards

### Value

Honourable Mention - Environmental Innovation - Junior Sponsor: EnviroExpo, Presented by VIA Rail Canada	\$100
<b>Total</b>	<b>\$100</b>