

# CWSF 2011 - Toronto, Ontario



## Courtney Stewart, Sarah Simpson

### The Hydro-Step: An Innovation in Renewable Energy Technology

**Challenge:** Innovation

**Category:** Senior

**Region:** Prince Edward Island

**City:** Bayview, PE

**School:** Bluefield High School

**Abstract:** The Hydrostep has the capability to convert kinetic energy from people walking up a flight of stairs into usable electricity. We are developing technology to take advantage of an unexplored form of renewable energy, and exhaustive searches of Canada's patent office have proved that our idea is unique.

#### Biographies

Courtney - My name is Courtney Stewart and I'm a grade 12 student at Bluefield High School in PEI. I enjoy science and math courses in school. I am on the cross-country running team, power lifting team, badminton team and the rugby team. I also play hockey and soccer outside of school. I had the privilege of playing on team PEI for hockey in the 2011 Canada Winter Games held in Halifax. Next year I am going to be attending UPEI in the faculty of Sciences.

Sarah - I'm Sarah Simpson, a grade 12 student at Bluefield High School in Hampshire, PEI. I'm involved in my school's Art club and Outdoor Adventure club. Outside of school, I'm interested in Music and Boating. I hope to study Music at UPEI next year, and eventually get an Architecture degree from Dalhousie.

#### Awards

#### Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	\$300
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
<b>Total</b>	<b>\$2 300</b>