

# CWSF 2011 - Toronto, Ontario



## Kelsey Keddy

### Better home heating and generator systems

**Challenge:** Energy

**Category:** Senior

**Region:** Halifax

**City:** Lawrencetown, NS

**School:** Halifax Grammar School

**Abstract:** Using a 27 foot long dual inner pipe system, this invention allows for the recuperation of lost heat from home generator systems. As the exhaust passes through the inner pipe, water is pushed through water jackets capturing heat as it flows. The water becomes heated and can be used in many practical applications. This means that mechanical energy is being generated from thermal lose.

#### Biography

Kelsey Keddy is a grade 11 student at the Halifax Grammar School who is passionate about the environment and science. She enjoys debating at a national level and simply being in the company of her friends. She hopes to study engineering at a post secondary level. Kelsey is also a member of many school clubs such as global affairs and the environmental club and hope to continue making a different in school and community.

#### 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>