

## CWSF 2007 - Truro, Nova Scotia



### Laura Simandl

#### Contribution to Sustainability in Cement and Coal Production

**Division:** Engineering & Computing Sciences / None

**Category:** Junior

**Region:** Vancouver Island

**City:** Victoria, BC

**School:** St Margaret's

**Abstract:** The Quinsam Coal Mine rejects are a valuable resource. They have ideal proportions of major oxides for high-quality cement production and contain between 6MJ and 12.5MJ of energy per kilogram of rejects. Their use would extend the life of the mine, reduce waste piles, and provide a reliable source of raw materials and energy savings for cement producers. The industry, society and environment would benefit.

#### Biography

I have a strong interest in sciences, particularly in engineering and earth sciences. I am really excited about participating in the 2007 Canada-wide science fair. I have participated in the Regional Science Fair (Victoria) for several years. This has been very beneficial to me because I learned a lot about many scientific disciplines through my own experiments and exposures to other projects. I am an outgoing person with a positive attitude, and I like challenges. Outdoors activities and sport teams, such as camping, hiking, soccer and field hockey are a huge part of my life. In my spare time, I enjoy reading and drawing wild life.

#### Awards

#### Value

The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Earth & Environmental Sciences - Junior Sponsor: Petro-Canada	\$300
Total	\$1 300