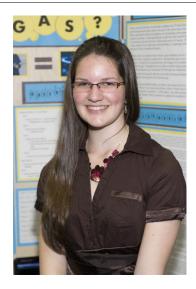




CWSF 2009 - Winnipeg, Manitoba



Kimberly Gulevich

Got Gas?

Division: Engineering & Computing Sciences / Environmental Innovation

Category: Senior

Region: Northern British Columbia

City: Fort St. John, BC
School: North Peace Secondary

Abstract: This project studies the feasibility of methane capture from a household

sewage lagoon. Phase One designed and created a hydrogen sulphide scrubber to scrub the collected biogas. The iron oxide absorption method was used and found to reduce hydrogen sulphide levels to below Canadian Oil and Gas Pipeline Standards. Phase Two is proposed to collect biogas

from a lagoon to complete the methane collection system.

Biography

I was born and raised in Fort St. John, BC and enjoy living and learning in the North. I am a grade eleven student, currently enrolled in North Peace Senior Secondary. This is my fourth CWSF and I was happy to receive two bronze medals at the 2006 CWSF, and an honourable mention at the 2008 CWSF. As a result of my experiences, I attended and competed in the Taiwan International Science Fair in February of 2008. There, I received a third place award in my category. Last year I was appointed editor of my school's yearbook, and was involved in the layouts and planning of the yearbook. This year at the regional science fair, I was honoured to receive the British Columbia Innovation Council's Young Innovator Scholarship. In my spare time I enjoy competing and performing in Irish Dance which I have been doing since I was nine years old. I also enjoy pursuing outdoor activities with my family.

Awards	Value
Engineers Without Borders - Canada Award	\$1 500
Sponsor: Engineers Without Borders - Canada	
The University of Western Ontario Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Western Ontario	
University of Ottawa Entrance Scholarship	\$1 000
Senior Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Ottawa	
Bronze Medal - Earth & Environmental Sciences - Senior	\$300
Sponsor: Petro-Canada	
Total	\$3 800



