

CWSF 2013 - Lethbridge, Alberta



Biography

I am a 13-year-old, grade 8 student at Bedford Academy. I live in Nova Scotia, and I enjoy taking dance and yoga classes with my friends, playing piano, and learning about science! In my future I would like to have a career in the science industry - possibly as an environmental scientist. I got the inspiration for my project from many recent news reports about finding environmentally-friendly energy sources. Right now, there is a lot of investigation going on regarding the use of biomass for energy and it's benefits and drawbacks. I would like to further investigate renewable energy resources and how they are used around the world.

Nicole Poirier

Biogas from Biomass - Producing Energy From Waste Organic Material

Challenge: Energy		
Category:	Junior	
Region:	Halifax	
City:	Bedford, NS	
School:	Bedford Academy	
Abstract:	Cow manure was mixed with egg, mashed banana, potato peelings, horse manure, and onion peelings, and left to ferment for a 12 day period. During this time, the organic mixtures were kept in plastic bottles, sealed with balloons to capture the gases. The mixture of cow manure and mashed banana released the most biogas during this time. Biogas is a form of clean, renewable energy.	

Awards	Value
Excellence Award - Junior - Bronze Medal	\$100
Sponsor: Youth Science Canada	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$1 100



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