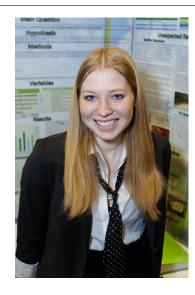




CWSF 2012 - Charlottetown, Prince Edward Island



Kelcie Miller-Anderson

Mycoremediation of the Oil Sands

Challenge: Resources
Category: Senior

Region: Calgary Youth City: Calgary, AB

School: Bishop Carroll High School

Abstract: Currently tailings ponds cover 170km2 in Alberta, but an effective method of

treatment has not yet been established. This project aimed to create a novel remediation method with the potential to treat both mature fine tailings and tailings water. Oyster Fungi was applied to both tailings water and mature fine tailings and its ability to remediate hydrocarbons, naphthenic

acids, pH and salt concentrations was assessed.

Biography

My name is Kelcie Miller-Anderson and I'm currently a Grade 12 student at Bishop Carroll High School. This will be my fourth year participating at the CWSF and I am really looking forward to visting PEI for my first time. This past summer I had the opportunity to volunteer in Spain with youth from around the world to be part of an english immersion for Spanish youth to help them develop their conversational English. Next year I plan on taking environmental sciences majoring in land reclamation.

Awards	Value
The Manning Innovation Achievement Award	\$500
Sponsor: Ernest C. Manning Awards Foundation	·
The Manning Innovation Achievement Award	\$4 000
and \$4000 Manning Young Canadian Innovation Award	
Sponsor: Ernest C. Manning Awards Foundation	
Challenge Award - Resources - Senior	\$1 000
Sponsor: Youth Science Canada	
Excellence Award - Senior - Gold Medal	\$1 500
Sponsor: Youth Science Canada	
Dalhousie University Faculty of Science Entrance Scholarship	\$5 000
Senior Gold Medallist - \$5000 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
UBC Science (Vancouver) Entrance Award	\$4 000
Senior Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
University of Manitoba Entrance Scholarship	\$5 000
Senior Gold Medallist - \$5000 Entrance Scholarship	
Sponsor: University of Manitoba	
University of Ottawa Entrance Scholarship	\$4 000
Senior Gold Medallist - \$4,000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$4 000
Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: Western University	
Total	\$29 000



