



## CWSF 2010 - Peterborough, Ontario



## Biography

Kyle Schole lives on a farm located just northwest of Edmonton, Alberta with his family of five. Attending Grade Eleven at RF Staples Secondary School, in Westlock, his favorite pastimes include playing the flute, cooking, reading, playing soccer, intense debates, and of course, working on his latest science fair project. This year, Kyle is secretary of the Student's Union, and hopes to be elected as president later this year. He also was a part of the model United Nations. Kyle has been in the science fair since the third grade, and is privileged to attend the Canada Wide Fair for three years. Upon graduation, Kyle hopes to enter the field of microbiology, or teach. In addition to science fair, he has also been in 4-H for four years with a beef project. In his time with the club, he also filled the rolls of club secretary, and treasurer. Kyle has had a lot of fun with all of his past science projects and feels that the experience gained from them will aid him later in life, whether he enters a profession in science, politics, or elsewhere.

## **Kyle Schole**

## **Microbial Degradation of Vehicle Tires**

Division:	Physical & Mathematical Sciences
Category:	Senior
Region:	Edmonton
City:	Pickardville, AB
School:	Richard F Staples Secondary School
Abstract:	As processing waste is often costly and uses electricity, it was a novel idea to reverse this scenario and produce usable energy from scrap vehicle tires. In using a combination of Microbial Fuel Cell (MFC), LED technology as well as a microbial process already found in nature I was able to use bacterial reduction of the waste vehicle tires.

Awards	Value
Canadian Commission for UNESCO - Science for Peace and	\$5 000
Development (MILSET ESI) Award	
Sponsor: Canadian Commission for UNESCO	
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	
Dalhousie University Faculty of Science Entrance Scholarship	\$4 000
Senior Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
University of Ottawa Entrance Scholarship	\$20 000
Senior Gold Medallist - \$20,000 Entrance Scholarship (\$5,000 each year	
for 4 years)	
Sponsor: University of Ottawa	
The University of Western Ontario Scholarship	\$4 000
Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Gold Medal - Environmental Innovation - Senior	
Sponsor: EnviroExpo, Presented by VIA Rail Canada	
Total	\$49 000



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