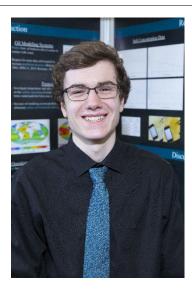




CWSF 2018 - Ottawa, Ontario



Jackson Weir

Experimental Analysis of Environmental Factors: Surface Spread of Oil on Water

Challenge: Environment

Category: Senior Region: Fundy

City: Saint John, NB

School: St. Malachy's Memorial High School

Abstract: In response to the risk of oil spills, scientists have created computer

programs that predict how oil will behave once it comes in contact with water. However, after reviewing the literature, a discrepancy was identified in the field. Data collected on spread rates warrants the addition of temperature into future prediction models. Its inclusion will help improve

prediction accuracy and reduce environmental damage.

Biography

My name is Jackson Weir. I am a grade 12 student at St. Malachy's Memorial High School in Saint John, New Brunswick. The process of developing a research topic was definitely a difficult one. One day (as I was low on time choose a topic) I was cleaning the dishes at the kitchen sink after a greasy meal. I noticed the small droplets of oil in the water were behaving differently based on the water's temperature. This observation was sufficient to inspire further reading. After a review of the literature on oil spills and surface spreading, I identified a gap in the field and pursued the topic. In the future, I hope to continue research in other fields to deepen my understanding of how the world works. I plan to attend post-secondary next year in the sciences. After my undergraduate degree, I aspire to complete a masters degree and eventually either a PhD or an MD for research. Hopefully my professional work will bring new understanding to my field and ultimately benefit society. Outside of school, I enjoy playing volleyball and basketball, and I love salmon fishing. This summer I have been accepted to attend SHAD at Memorial.

Awards	Value
Excellence Award - Senior - Gold Medal	
Sponsor: Youth Science Canada	
Challenge Award - Environment - Senior	
Sponsor: Youth Science Canada	
Carleton University Entrance Award	\$4 000
Senior Gold Medallist - \$4,000 Entrance Award	
Sponsor: Carleton University	
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	\$26 000



