



CWSF 2017 - Regina, Saskatchewan



Biography

I am a grade 11 at Adam Scott in Peterborough, Ontario. I have many extracurricular activity interests. I am on the school hockey team and house league. My hobbies include: hockey referee, biology and pet care. I am interested in being someone nobody has seen before. I am very determined and passionate about what I do. I do extreme multi-day canoe and hiking trips with my family. My post secondary plan is to go to Fanshawe College in London for biology because a lot of my achievements have been in biology because I love being outdoors and learning about plants, animals and the human body. Some of my achievements have been getting many awards in my regional science fair, I have been competing since grade one and this is my second trip to Canada Wide. Most of my projects have been environmental and in grade seven I started my cigarette butt project. I saw hundreds of butts discarded near sewage drains and I investigated whether the butts were causing pollution to watersheds. The next year I made three pro-type of filters from: coconut, filamentous algae and banana to clean the water. I hope to go public with my idea.

Frances Emery

Do Kingdoms Speak the Same Language; Are Phytohormones Mycohormones?

Challenge: Discovery		
Category:	Senior	
Region:	Peterborough	
City:	Peterborough, ON	
School:	Adam Scott C.V.I.	
Abstract:	Fungi make plant hormones but no one has investigated their role in fungi. Phytohormones: (GA3, IAA, BAP and ABA) were used to test the effects on three types of mushroom growth: Cap/stipe cuttings, spores, and complete life cycle. All altered growth and each had a different effect. Some knocked out stipe growth others mycelium growth. Thus plant hormones made by fungi are also fungal hormones.	

Awards	Value
Excellence Award - Senior - Bronze Medal	
Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship	\$1 000
Senior Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$2 000



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