



## CWSF 2012 - Charlottetown, Prince Edward Island



## Biography

I live off the east coast of Canada in Halifax, Nova Scotia. In my spare time, I sail and do underwater photography in the summer, and compete in fencing in the winter where I have won several medals. My backyard continues into the park and I have gone on many hiking trips. Most of these forests have stood for at least 100 years, and their beauty still awes many today. That is why when a man made forest fire ravaged the forests in my district, turning them into mounds of ash and branches. I was determined to find a solution to this problem and others linked to the destructive forces of fire, while avoiding the larger threats of pollution and global warming. I read about the harm that some chemical fire retardants do to the environment, so I chose to find more natural fire retardant solutions. In further studies I would locate the components of grape and lime juice which slow down the burning process. I also do lots of performing arts such as singing and acting in my free time which helps which helps boost confidence and eliminate nervousness when presenting to the judges!

## **Peter Issekutz**

## **Finding Natural Fire Retardant Solutions**

Challenge: Environment		
Category:	Intermediate	
Region:	Halifax	
City:	Halifax, NS	
School:	Fountain Academy of the Sacred Heart	
Abstract:	Potential natural alternatives to harmful chemical fire retardants were examined. Cotton squares were soaked in test solutions and exposed to a flame The amount burned after 15 secs was evaluated. Grape juice and lime juice, especially in combination, were potent fire retardants. Lanolin and horseradish were less effective. This project demonstrated that fruit juices, or their components, are potential alternatives to chemical fire retardants!	

Awards	Value
Excellence Award - Intermediate - Bronze Medal	\$300
Sponsor: Nuclear Waste Management Organization	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$1 300



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