



## CWSF 2008 - Ottawa, Ontario



## Robert Buchkowski

## The Leaching of Bisphenol-A from Polycarbonate Bottles

**Division:** Engineering & Computing Sciences / None

Category: Senior

**Region:** Peterborough **City:** Indian River, ON

School: Peterborough Collegiate

**Abstract:** The leaching of Bisphenol-A (BPA) from polycarbonate bottles was

compared to the temperature of the environment. Temperatures of 4°C, 20°C and 95°C were chosen to examine the relationship. Solid Phase Extraction was used to pre-concentrate the samples before analysis by Liquid Chromatography/ Mass Spectrometry. An increase in the leaching of BPA was observed at high temperatures. The control was found to contain

BPA.

## **Biography**

?My name is Robert Buchkowski and I am 18 years old. I began my high school studies in 2003 as a member of Peterborough Collegiate and Vocational School's Intergrated Arts Program. During my high school years I became very involved in the PCVS community. As a member of the arts community, I directed four dramatic productions and performed with the PCVS African Drumming group. My passion for global politics lead me to join the PCVS African Connections group, where I helped organize school events and conferences. In 2006, I travelled to Holland to participate in THIMUN, the largest Model United Nations in the world. Since October of last year, I have been a member of Jamaican Self-Help's Youth Action Team, which strives to raise awareness about poverty related issues. Finally, my love for science led me take every academic science course PCVS had to offer. Outside of my curricular commitments to science I was also a member of PCVS Envirothon, a competition which focuses on Environmental Sciences and natural resource management. In September, I am beginning an undergraduate degree in Environmental Sciences.

Awards	Value
Dalhousie University Faculty of Science Entrance Scholarship	\$4 000
Senior Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
NSERC Undergraduate Student Research Award - Senior Gold Medallist	\$5 625
Sponsor: Natural Sciences and Engineering Research Council of Canada	
(NSERC)	
UBC Science (Vancouver) Entrance Award	\$4 000
Senior Gold Medallist - \$4000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
The University of Western Ontario Scholarship	\$2 000
Gold Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Western Ontario	
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	
Gold Medal - Earth & Environmental Sciences - Senior	\$1 500
Sponsor: Petro-Canada	
Total	\$37 125



