

# CWSF 2008 - Ottawa, Ontario



## Safiya Nanji

### Are Plastic Water Bottles Endangering The Human Race?

**Division:** Engineering & Computing Sciences / Environmental Innovation

**Category:** Junior

**Region:** York

**City:** Markham, ON

**School:** Richmond Hill Montessori and Elementary Private School

**Abstract:** Bisphenol-A (BPA) has now been well documented to be leaching from plastic water bottles especially when these bottles are subjected to heat such as in the summer. Experiments (n=5) were conducted to test the heat transfer to the water comparing commercial plastic water bottles to Tetra Pak containers. As part of the EnviroExpo project, a new water bottle using Tetra-Pak material has been designed.

#### Biography

Ms. Safiya Nanji attends Richmond Hill Private School, in Richmond Hill, Ontario. She has been a five time Science gold medalist from grades 4 to 8 at her school. As well as excelling in her academic subjects (2008 silver medalist in French Poetry and Speech; 2007 Gold medalist in Speech), she is a member of the senior band and the award winning senior choir and is very active in the Green Team. She recently gave a speech to help save the David Dunlop Observatory which was received very well by several local politicians. In her spare time, Safiya has had notable achievements namely, her involvement with swimming where she is working towards her national life guard certification. Whilst these achievements are admirable, Safiya has continually maintained an A + average sporting a 90+ average in her core subjects. Safiya hopes one day to become a journalist

#### Awards

#### Value

Honourable Mention - Environmental Innovation - Junior Sponsor: EnviroExpo, Presented by VIA Rail Canada	\$100
<b>Total</b>	<b>\$100</b>