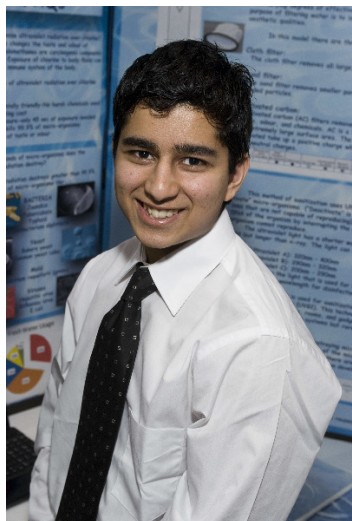


# CWSF 2010 - Peterborough, Ontario



## Harshvardhan Pardeshi

### Home Water Treatment Plant

**Division:** Physical & Mathematical Sciences

**Category:** Intermediate

**Region:** Lambton County

**City:** Sarnia, ON

**School:** Northern C.I. & V.S.

**Abstract:** This project explores a way of reducing the overall freshwater consumption in a household by recycling household grey water using filters and ultraviolet radiation. An experiment was conducted to study the effect of ultraviolet radiation on the growth of bacteria.

### Biography

Harshvardhan is a young boy with a very inquisitive mind. As a five year old, growing up in Purwakarta, Indonesia he had taken apart a table clock to discover what's behind the dial that make it tick. To his parents he is a keen kid, full of energy and enthusiasm to learn how things work. He would be the first one to explore all the features of the latest gadget that they have bought. Harshvardhan moved to Canada in grade 5. His innate abilities have flourished in the ethos of Canada where encouragement for Science and technology gives great impetus to the young for progress. Last year, Harshvardhan made a working model of a solar energy powered system for home. He used his knowledge to offer a practical solution for the acute power shortage at his grandfather's farm in India. Working on another of his grandfather's problems he has studied in depth about recycling of grey water. He has tremendous potential to grow to become a man of science and technology to make human life more enjoyable and comfortable. As a team member of his school teams for swimming and badminton he has won numerous medals.

### Awards

### Value

Honourable Mention - Environmental Innovation - Intermediate Sponsor: EnviroExpo, Presented by VIA Rail Canada	\$100
Total	\$100