

## CWSF 2011 - Toronto, Ontario



### Charanpreet Mahal, Gurmeen Banipal

#### It's Not Waste Until It's Wasted!

**Challenge:** Energy  
**Category:** Junior  
**Region:** Fraser Valley  
**City:** Abbotsford, BC  
**School:** Dasmesh Punjabi School  
**Abstract:** In this project, we have mastered the technique of making a "Microbial Fuel Cell" which uses the oxidization of bacteria to create electricity. During the process of making electricity, the Microbial Fuel Cell also cleans water by removing COD, and BOD. Using the Microbial Fuel Cell, we were able to create a large amount of electricity, by simply using bacteria filled Benthic Mud.

#### Biographies

Charanpreet - My name is Charanpreet Kaur Mahal. I am currently a Gr.8 student at Dasmesh Punjabi School, Abbotsford, B.C. I have been the top student achieving student of the year awards and I have been getting great grades throughout my school life. I was born in the beautiful city of Abbotsford. Some of my interests are reading and travelling. These both things allow me to explore whole new dimensions. In school one of my favorite subject to study is science. This subject fascinates me and I love learning about the human body. My passion for the study of science has lead me to conduct a science club with my partner Gurmeen, in which we help young kids l...

Gurmeen - My name is Gurmeen Kaur Banipal. I am enrolled in Grade 8 at Dasmesh Punjabi School, located in the beautiful city of Abbotsford, British Columbia. At school I enjoy studying Science, because it involves thinking and experimenting. I also have been a spelling bee champion at school this year. Throughout my school life, I have been a top student, and have achieved many "Student of the Year" awards. I also enjoy reading, writing, travelling, and playing sports. I am also currently playing for Abbotsford United Soccer Club. Charanpreet and I like to help the community by volunteering at local events, we have been volunteering at the local Canada D...

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