

CWSF 2015 - Fredericton, New Brunswick



Kezmen Jun Jie Chen, Benjamin Chung

Poo is Cool

Challenge: Energy

Category: Intermediate

Region: Greater Vancouver

City: Vancouver, BC

School: Britannia Community Secondary

Abstract: This project started out as an experiment soon to become a implementation. We started out by testing Microbial Fuel Cells against an Electro-chemical (Daniell) Cell. From our results and research, we realized the potential applications and decided to turn it into an implementation. We extensively researched waste-water treatment plants and MFC materials. From this we created this project which we hope will help the world.

Biographies

Kezmen Jun Jie - I was born in Singapore, and moved to Canada when I was 12. I like to play most sports, and also the piano. My favorite sport is badminton, which I play in school and for recreation. When I grow up, I plan to be a scientist or an engineer. I got the inspiration for my project after hearing that there was a cell that converted organic matter into valuable electricity. For my future plans, I would like to dive deeper into trying to make this project help our real world, by implementing it successfully. I think that the project that other students should think about should be special, creative and imaginative. Also, try not to repeat common proj...

Benjamin - My name is Benjamin Qi Yong Chung. I'm from Britannia Secondary, a school in Vancouver, BC. Besides games and sport, I enjoy reading and playing piano. I am always intrigued by how we can tap upon renewable energy sources that can better improve our living condition. I chanced upon this topic via the internet which provides the avenue for exploration and discovery. Organic waste is already known for providing bio fuel as a source of energy. Upon further reading, my interest was stirred by electricity energy generated by bacteria feeding on organic waste anaerobically. I would like to investigate further the efficiency of the MFCs that would i...