

# CWSF 2007 - Truro, Nova Scotia



## Emily Kuo, Alice Zhang

### Electrifying Algae

**Division:** Life Sciences / None  
**Category:** Senior  
**Region:** Fraser Valley  
**City:** Abbotsford, BC  
**School:** Yale Secondary  
**Abstract:** Electromagnetic fields are produced by any regular household appliances, as well as by powerlines situated close to our homes. This means that we are constantly being exposed to them. However the effects of these extremely low frequency field on living organisms is still unclear. In our experiment, we tested whether or not these fields produced by electrical wires have any effect on algae cells.

#### Biographies

Emily - I am a grade 11 honor roll student at Yale Secondary who enjoys science and music. People describe me as a hardworking, easy-going and optimistic person. I enjoy listening to music and playing the piano. As a part of the school's concert band, I also play the flute and I am an active member and secretary of Key Club, a worldwide student volunteer organization committed to helping people around the world. During my spare time, I like to read, draw, play badminton, and hang out with my friends. During the past 3 years, I have participated in the regional science fair many times and receive many valuable awards and experiences. I plan to study c...

Alice - My name is Alice, and I am a cheerful, outgoing person. I love meeting new people, as well as spending time with my friends. I can speak English, Japanese, and Mandarin Chinese fluently because I was born in China, but immigrated to Japan when I was five years old, then came to Canada when I was eleven years old, and have lived here since. My hobbies include playing the piano and saxophone, listening to music, reading, as well as shopping. I work part-time as a waitress at a Japanese restaurant, as well as a minor test shopper (a very interesting job, I must say.) My favourite academic subjects in school are chemistry and math; I am also invo...

#### Awards

#### Value

Honourable Mention - Health Sciences - Senior Sponsor: Canadian Institutes of Health Research	\$100
Total	\$100