

# CWSF 2011 - Toronto, Ontario



## Raymond R M Wang, Ty Zhang

### Weather Harvester

**Challenge:** Innovation

**Category:** Junior

**Region:** Greater Vancouver

**City:** Vancouver, BC

**School:** St George's School

**Abstract:** Energy crisis and the severe weather are two of the biggest problems facing us today. Precipitation contained potential energy, and wind had kinetic energy. A piezoelectric roof was innovated that had a potential to be widely implemented to harvest and store weather energy. Experimentation timed the speed the Weather Harvester collected a specific amount of energy under actual weather conditions. Results proved our innovation feasible.

### Biographies

Raymond R M - My name is Raymond, and I was born in Nanjing, China. Together with my parents, I moved to Vancouver on my second birthday. Currently, I attend Grade 7 at St. George's School. Language is one of my favorite subjects. I am fluent in English, French and Mandarin. I scored perfect in BCFSAs writing section in both Grade 4 and 7. I enjoy Math Olympiads, ranking in the Top 3 of the grade this year. I am involved in many sports, including Floor Hockey, Volleyball, and Basketball. I am proud to have served the swim team for 5 years. I am proficient in the arts, receiving Fine Arts Scholarships and Outstanding Musician Trophies. My musical inter...

Ty - My name is Ty Zhang, and I am from St George's Junior School. I have just recently been admitted, before I was educated at a public school in Richmond. My special interests includes swimming, chess, economics, basketball, and golf, which I am currently pursuing at a competitive level. Currently my plans is to try my best to get a post-secondary degree, and hopefully become admitted to a high-end university. The achievement I am most proud of is winning a short novel contest a few years back. I look forward to the great experience of the CWSF!

### Awards

### Value

CSSE Engineering Innovation Award - Junior Sponsor: Canadian Society for Senior Engineers	\$500
Excellence Award - Junior - Gold Medal Sponsor: Youth Science Canada	\$1 500
The University of Western Ontario Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: University of Western Ontario	\$4 000
<b>Total</b>	<b>\$6 000</b>