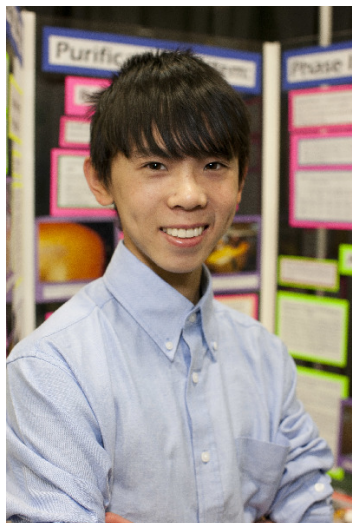


CWSF 2011 - Toronto, Ontario



Matthew Sem

Homemade Water Purification System: Phase II

Challenge: Environment

Category: Junior

Region: York

City: Richmond Hill, ON

School: Richmond Hill Montessori and Elementary Private School

Abstract: Gastroenteritis is the leading source of death in children under 5. My project is to create an environmentally friendly purification device, that uses solar distillation. Solar distillation uses the heat of the sun radiating directly into an equipment to purify the contaminated water. Solar distillation can be a cost effective means of providing clean water for drinking, cooking, washing and bathing - basic human needs.

Biography

Matthew Sem is a Grade 8 student attending Richmond Hill Montessori and Elementary Private School in Toronto. He is a top student with first place in Speech; silver and gold medals in Art and Science Fair Contests. He enjoys playing multiple sports with his two brothers, reading, drawing, and listening to music. Matthew currently plays the alto saxophone in Senior Band. He enjoys all kinds of sports, including volleyball, badminton, ball hockey, and being captain of the senior soccer, football and ultimate Frisbee teams. Matthew plays competitive badminton, practicing twice a week and has won numerous medals in competitions. He is fluent in Mandarin and has participated in various Chinese speaking competitions. Matthew is currently in Grade 6 violin with awards in competitions. He really enjoys travelling with his family to different countries, including Brazil, Mexico, Italy, France, China, Spain, and Poland. Matthew looks forward to going on a missionary trip to Mexico this summer. He will be joining his brother Geoffrey in the Bayview Secondary IB program for high school. Matthew has plans to becoming a medical doctor one day.

Awards

Value

Excellence Award - Junior - Bronze Medal Sponsor: Youth Science Canada	\$300
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Total	\$1 300