

## CWSF 2016 - Montreal, Quebec



### Sam Orend

#### Temperature Manipulation Desalination

**Challenge:** Innovation

**Category:** Intermediate

**Region:** Waterloo-Wellington

**City:** Kitchener, ON

**School:** Cameron Heights C.I.

**Abstract:** Many individuals in developing nations lack access to drinkable water. Desalinating ocean water can help remove salt and convert undrinkable water to a drinkable state. The aim of this innovation project was to create a small scale, practical, desalination technology which people from developing nations could use to create their own clean drinking water.

#### Biography

My name is Sam Orend and I am 14 years old. I currently attend Cameron Heights Collegiate Institute as a grade nine, International Baccalaureate student. Outside of school, I play many sports including: volleyball, basketball, but, most notably, table tennis. In fact, I have the opportunity to go the International Children's Games in Taiwan, this summer, as part of Canada and Kitchener-Waterloo's table tennis team. Aside from sports, I consider myself a STEM innovator of sorts. I love attempting to solve some of the most complex challenges we face in daily life: as per my current project of desalination for the developing world. I decided to pursue this project, and, really, challenge these issues in general as a method of trying to help those who do not have the luxury of everything I may take for granted. In the future I plan to continue working with such issues, and really try to make an impact on how such matters are viewed and dealt with. My advice to anyone currently developing their project, or planning to, would be to really buy into what you are doing -- be excited and use your skills to help you along the way.