

## CWSF 2018 - Ottawa, Ontario



### Sofya Mishchenko, Katherine Brown

#### Chair of the Future

**Challenge:** Energy

**Category:** Junior

**Region:** Sudbury

**City:** Sudbury, ON, Capreol, ON

**School:** Marymount Academy

**Abstract:** The "Chair of the Future" could be the next step to more eco-friendly ways to generate electricity. When a person sits on the chair and inserts a cold substance into the compartment underneath the chair, they convert thermal energy into electrical energy. The scientists built a prototype of the chair, ensuring they would have the temperature difference, and were able to generate electricity with it.

#### Biographies

Sofya - I, Sofya Vladimirovna Mishchenko, enjoy drawing and painting and am a former student of the Alberta Arts Academy. I have won multiple art-related contests and have been published in books. I enjoy swimming and have participated in a variety of swim styles such as synchronized swimming, and lane swimming. I love school, and my favourite subjects are the sciences. The inspiration for my project came from Google Science Fair winner, Ann, and her "Hollow Flashlight." The device she constructed used a Peltier Tile to convert thermal energy into electrical energy, which intrigued me. I was compelled to make a project that used Peltier Tiles and decid...

Katherine - My name is Katherine, I attend Marymount Academy, and I am in grade 8. I love history, reading, sports, and have never strayed far from where I live, making this quite a crazy experience. Inspiration for my partner and I's project was an article in our textbooks about Peltier Tiles, and we do wish to add onto our project. Some advice is to not procrastinate on your project or you will not be able to add everything you want into it.

Youth Science Canada  
PO Box 297  
Pickering ON L1V 2R4  
[www.youthscience.ca](http://www.youthscience.ca) / [info@youthscience.ca](mailto:info@youthscience.ca)  
416-341-0040