

# CWSF 2015 - Fredericton, New Brunswick



## Elias Andersen

### Countertop Cold Storage: An Innovation Using Peltier Chip Technology

**Challenge:** Innovation

**Category:** Intermediate

**Region:** Simcoe County

**City:** Meaford, ON

**School:** Pretty River Academy

**Abstract:** After several modifications a Countertop Cold Storage device was designed using Peltier Chips, heat-sinks, and a fan. To slow the growth of germs and increase longevity of food, the unit was designed to cool below 14 degrees Celsius for health and safety reasons. The final design allows for the unit to sit on the counter or be installed seamlessly as a drawer.

#### Biography

My name is Elias Andersen. I am in grade 9 at Pretty River Academy in Collingwood, Ontario. After completing high school I plan on attending Western University for sports management. This is my second Canada Wide Science Fair! My favourite subjects at school are science, math and physical education. I love sports and my favourite sports include golf, baseball, soccer, hockey, snowboarding and, ping pong. My hobbies include watching sports on television and playing sports on the Xbox 360. I also like making sports podcasts! I got the inspiration for my project, Countertop Cold Storage, from my science fair last year. My next step is to try and make my innovation marketable. My advice for others would be to choose a topic that interests them because it makes it a lot easier to be successful! Last year I made a cooled cutting board using Peltier Chip technology, and I won a gold medal! I loved creating last years project, so this year I stuck with the subject!

#### Awards

#### Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Youth Science Canada	
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 000