

# CWSF 2014 - Windsor, Ontario



## Elias Andersen

### Cold Cuts: A Cooled Cutting Board Using Peltier Technology

**Challenge:** Innovation

**Category:** Junior

**Region:** Simcoe County

**City:** Meaford, ON

**School:** Pretty River Academy

**Abstract:** Using Peltier Chip technology this project aimed to create a cooled cutting board to slow bacterial growth and increase food safety. Many ideas were explored but heat contamination from Peltier Chips was a recurring problem. The final design using a heatsink and integrated fan solved the problem of heat contamination, creating a cooled cutting board.

#### Biography

My name is Elias Andersen. I am in grade 8 at Pretty River Academy in Collingwood, Ontario. I plan on staying at Pretty River Academy throughout high school. After completing high school I plan on attending Ryerson University for sports broadcasting. This is my first Canada Wide Science Fair! My favourite subjects at school are science, math and phys. ed. I love sports! 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 from a robotics competition a few years ago, where I was looking at food safety. 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!

#### Awards

#### Value

Challenge Award - Innovation - Junior Sponsor: BlackBerry	\$500
Excellence Award - Junior - Gold Medal Sponsor: Youth Science Canada	\$700
Western University Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: Western University	\$4 000
<b>Total</b>	<b>\$5 200</b>