

# CWSF 2016 - Montreal, Quebec



## Eran Burseley

### The Effect of Worms on the Decomposition of Food Waste

**Challenge:** Environment

**Category:** Junior

**Region:** Sudbury

**City:** Azilda, ON

**School:** MacLeod P.S.

**Abstract:** Food waste decomposing in a landfill creates methane, contributing to the greenhouse gas effect. I observed the effect of *Eisenia fetida* on digestion of fruit/vegetable scraps to find that these worms were more effective at decomposing food than if no worms were present. More worms were better than fewer worms. Let's contribute, on a small scale, towards climate change control by vermicomposting at home.

#### Biography

I am in grade 7 at MacLeod Public School in Sudbury, ON. At school, I am involved in team sports such as volleyball, track and field, floor hockey, softball, and have a key role in the upcoming school play. I play piano, saxophone, acoustic guitar and electric guitar. In my community, I am active in many sports such as hockey (as a goalie), football, baseball, water-skiing and snowboarding too. I love my two Newfoundland dogs - they weigh more than me! My family enjoys camping, hiking, annual vacations to Florida, and spending time with cousins. I don't yet know what my career path will be but I do enjoy science. In fact, I just won GOLD in the Math and Science Olympics at Science North. I was inspired to study worms and composting because we have a family worm bin and a huge vegetable garden which I help my Dad with. My family also has honey bees so I plan to do a science fair in the future with them. All kids should remember to have fun when conducting a science experiment - I sure did!

#### Awards

#### Value

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