

CWSF 2018 - Ottawa, Ontario



Emma Palmer

Off the Scales ? Using Ozone as a Natural Pesticide

Challenge: Environment

Category: Junior

Region: Simcoe County

City: Collingwood, ON

School: Pretty River Academy

Abstract: This experiment tested the effect of different forms of ozone to remove scale pests from citrus trees, because currently the only way is to use chemical - based pesticides which are proven to harm the environment and cause Cancer, Alzheimers, birth defects and several other serious illnesses. It was discovered that using ozonated hemp oil can remove scale in less than ten minutes.

Biography

I am Emma Palmer, a grade 7 student at Pretty River Academy, in Collingwood, Ontario. Outside of school, I spend as much time as I can reading, learning aerial silks, and competitive figure skating. I love to volunteer in my community and am part of the local Interact club. I help out at my skating club teaching the younger skaters . Every year since grade 4 I have had the pleasure of attending the regional science fair, and have always been looked up to my friends going to CWSF. This year I am thrilled to be going myself. I was inspired for this project, when I discovered the scale infestation on my family's citrus trees and wanted to find a way to remove the bugs without using commercial pesticides that are proven to harm the environment and can cause cancer, Alzheimers, and birth defects. If I investigated further I would test whether these same solutions would work to kill different pests. If you are an aspiring young scientist, I advise you not to give up, try, try, and try again, and if that doesn't work, keep trying!

Awards

Value

Excellence Award - Junior - Silver Medal Sponsor: Youth Science Canada	
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
Total	\$2 000