

CWSF 2017 - Regina, Saskatchewan



Elesha Wood

Stimulation of the Vagus Nerve Through Targeted Temperature Therapy

Challenge: Innovation

Category: Senior

Region: Tri-County

City: Yarmouth, NS

School: Yarmouth Consolidated Memorial High School

Abstract: This innovative concept utilizes the body's (Sympathetic) response as the activation of the targeted temperature therapy, meaning that the user's anxiety triggers the treatment and not the user themselves. This project investigated the combination of a GSR (Galvanic Skin Resistance) sensor and a thermoelectric element cooler to diminish the physical symptoms of an anxiety attack, and therefore the attack itself.

Biography

I am a grade 10 student who loves science. I have been in several regional fairs prior to advancing and would encourage everybody else to join in on them. Science is something that is constantly changing, and because of that, we, as humans need to adapt and continue learning. Based on the results from my project, I plan to further investigate the applied uses of colors. For anyone that is thinking about doing a project, my advice would be, yes, do it, you will gain so much knowledge and wisdom. Science fair projects are not just a "school project" they are a chance to develop your scientific ideas and become a valuable addition to the scientific world. Science changes the world, and so can you.

Awards

Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$2 000