

CWSF 2011 - Toronto, Ontario



Frank Hawkins

3D Hearing

Challenge: Innovation

Category: Junior

Region: Northwestern Ontario

City: Thunder Bay, ON

School: Thunder Bay Christian School

Abstract: Current sound technology does not mimic the human ability to perceive sound from all directions. I made an apparatus to find the minimum angle people can distinguish two different sounds at various distances, both up/down and front/back. I found that people can hear equally well on both planes, but the angle of discrimination widens the closer the sound sources get to the ear.

Biography

Frank Hawkins was born and raised in Thunder Bay, Ontario. He is currently a grade 8 student at Thunder Bay Christian School. He enjoys playing guitar, bass guitar, and piano. He also enjoys thinking and learning about science. His favourite scientific pursuits include astronomy, physics and finding ways to improve on things. In his spare time he likes playing musical instruments, watching Doctor Who, and Science specials on the Discovery Channel.