

# CWSF 2013 - Lethbridge, Alberta



## Erika MacInnis, Olivia Cardillo

### Hold On to Your Hats!

**Challenge:** Energy

**Category:** Junior

**Region:** Montreal

**City:** Saint-Lazare, QC, Saint-lazare, QC

**School:** École secondaire Westwood, cycle 1

**Abstract:** This experiment investigates the relationship between wind turbines in close proximity to determine which configuration of five small scale, homemade wind turbines produces the greatest total voltage output when connected as a series circuit and exposed to a simulated wind source.

### Biographies

Erika - I am Erika MacInnis and I am 14 years old. I live in Saint-Lazare, Quebec and I am a student in the Grade 8 Matrix program at Westwood Junior High School. During my spare time I enjoy reading, playing the piano, playing the alto sax, swimming and cross country running. I am part of the concert band and jazz band at my school. Also, I occasionally volunteer at the Hudson Youth Community Center. My career plans are to become either a pharmacist or an engineer. I was inspired to begin my project on wind turbines when I had a chance to see wind farms in the Netherlands. This proved to be a very interesting project choice and there are follow-ups ...

Olivia - I am Olivia Cardillo and I am 13 years old. I live in Saint-Lazare, Quebec and I am a student in the Grade 8 Matrix Program at Westwood Junior High School. I enjoy playing guitar, reading, touch football, spending time with family and friends and volunteering at the Hudson Youth Community Center. I wish to have a career in engineering or the medical field. I was inspired by the story my friend told me about her trip to the Netherlands and of the great wind farms, and decided to partner up and do a project on wind turbines. I would very much enjoy doing further investigations in this field regarding turbulence. My advice for a student interest...

### Awards

### Value

Excellence Award - Junior - Bronze Medal Sponsor: Youth Science Canada	\$100
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 100

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