

## CWSF 2011 - Toronto, Ontario



### Mollie Marie Bianchi

#### Net Energy Evaluation of an Automotive Wind Driven Generator

**Challenge:** Energy

**Category:** Junior

**Region:** York

**City:** King City, ON

**School:** St. Thomas of Villanova College

**Abstract:** This project proved that a wind driven generator mounted on a vehicle, which is only connected to the battery when the vehicle is braking, decelerating, coasting or going down a hill, results in a net gain of energy as compared to a vehicle without a wind driven generator.

#### Biography

Mollie Marie Bianchi is a 13 year old, Gr. 8 student currently attending St. Thomas of Villanova College in King City. She is part of the cross country team, computer programming club and soccer team. In the summer, Mollie lives in a log cabin in Oro Station, where she swims, fishes and goes boating. In the winter, she snowmobiles and ice fishes. Mollie enjoys reading, baking, knitting and crocheting. She plays the piano and alto saxophone. Mollie has been doing Science Fair for the past two years. She has won awards for Public Speaking in previous years. She has also participated in Math Olympics, Science Olympics, and Battle of the Books. Mollie has many things she wants to be when she grows up, but whatever does, she would like to get a PHD.

#### Awards

#### Value

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|---|---------|
| Excellence Award - Junior - Silver Medal<br>Sponsor: Youth Science Canada   | \$700   |
| The University of Western Ontario Scholarship<br>Silver Medallist - \$2000 Entrance Scholarship<br>Sponsor: University of Western Ontario | \$2 000 |
| Total   | \$2 700 |

