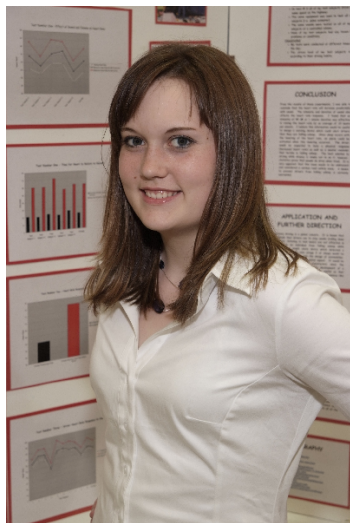


# CWSF 2007 - Truro, Nova Scotia



## Laura Larson

### Asleep at the Wheel

**Division:** Health Sciences / Automotive

**Category:** Intermediate

**Region:** Alberta Central East

**City:** Hanna, AB

**School:** J.C. Charyk Hanna School

**Abstract:** The purpose of this project was to develop a method to prevent drivers from falling asleep at the wheel. The relationship of sound to heart rate response was studied. Designs were developed to incorporate existing technology into an alarm system which would alert a driver when they were entering the second stage of sleep, indicated by lowered heart rate.

### Biography

I am a grade nine student from Hanna, Alberta. I live on a small ranch with my parents and three siblings (two sisters and a brother). My hobbies include horseback riding (English and Western), dancing, reading, and shopping! I love animals and own a quarter horse, cat and Chihuahua (whom I enjoy shopping for). I have been involved in 4-H for the past six years with lamb, steer and horse projects. I enjoy public speaking and have attended many competitions at the district and regional level. At school, I volunteer as a tutor for grade four students with learning disabilities. I am a frequent volunteer for various causes in our community, including Ducks Unlimited, Breast Cancer Research and our local SPCA. Upon completion of high school, I hope to pursue a career in Clinical Psychology. Last year, I had the opportunity to compete as a CWSF finalist in Saguenay, Quebec. I was thrilled to win a gold medal in automotive and an honorable mention in engineering.

### Awards

### Value

The University of Western Ontario Scholarship Silver Medallist - \$1500 Entrance Scholarship Sponsor: University of Western Ontario	\$1 500
Silver Medal - Automotive - Intermediate Sponsor: AUTO21	\$700
Silver Medal - Engineering - Intermediate Sponsor: Youth Science Foundation Canada	\$700
<b>Total</b>	<b>\$2 900</b>