

## CWSF 2010 - Peterborough, Ontario



### Jared Manchuk

#### H.H. - D.D. Hero High-speed Driver Deterrent

**Division:** Physical & Mathematical Sciences

**Category:** Junior

**Region:** Sudbury

**City:** Sudbury, ON

**School:** Algonquin Road P.S.

**Abstract:** Pedestrians hit by a vehicle going over 50Km/hr have little chance of survival! This project studied use of a video camera to calculate vehicle speed in order to determine if most cars were exceeding the limit. Using video frame counts, the physics of speed and parallax were applied in mathematical calculations to measure vehicle speed. The method was accurate and indeed most cars were speeding!

#### Biography

My name is Jared Manchuk and I am a grade 8 student at Algonquin Road Public School in Sudbury Ontario. I have a 10 year old brother named Joel and a dog named Ember.

Activities that I enjoy at school include cross country running and taking photos for the year book. Some of the things I do when I am not at school include dirt jumping or trail riding on my mountain bikes, wake boarding, water skiing and scuba diving. I also like to go fishing with my grandpa and I once caught a 23 pound Pike in Lake of the Woods! In the winter I love to snowboard. Some of my hobbies include model railroading, flying RC planes, painting, designing homes and office buildings and taking pictures of landscapes. Once I am done high school I plan to become an architect so I can design homes and other structures. At our regional science fair this year I won first place in the Junior Physical Science division and Best of the Fair for the Junior divisions. I am really looking forward to CWSF. I think that it will be a very good experience.

Youth Science Canada  
PO Box 297  
Pickering ON L1V 2R4  
[www.youthscience.ca](http://www.youthscience.ca) / [info@youthscience.ca](mailto:info@youthscience.ca)  
416-341-0040