

# CWSF 2005 - Vancouver, British Columbia



## Katherine Brown

### Silent Witness

**Division:** Engineering & Computing Sciences

**Category:** Junior

**Region:** Bluewater

**City:** Owen Sound, ON

**School:** Hillcrest Elementary School

**Abstract:** The Silent Witness uses force, rotary motion and switch-voltage system sensors, an accelerometer, interface, and computer software to record what occurs during simulated collisions, using remote controlled vehicles. Extensive testing and analysis determined that the tri-axis accelerometer gave reliable, complete information about rolls, pitches, yaws and impacts.

Awards	Value
The University of Western Ontario Scholarship Gold Medallist - \$2000 Entrance Scholarship Sponsor: University of Western Ontario	\$2 000
The University of Western Ontario Scholarship Silver Medallist - \$1500 Entrance Scholarship Sponsor: University of Western Ontario	\$1 500
Silver Medal - Engineering - Junior Sponsor: Youth Science Foundation Canada	\$700
Gold Medal - Automotive - Junior Sponsor: AUTO21	\$1 500
Total	\$5 700