

# CWSF 2012 - Charlottetown, Prince Edward Island



## Keaton Woods Chadwick

### The Efficient 2-Stroke Engine

**Challenge:** Innovation

**Category:** Junior

**Region:** Peel

**City:** Brampton, ON

**School:** William G. Davis Senior P.S.

**Abstract:** My project is an innovation that examines methods and principles from many areas of engine technology. A system was created to combine them in one gasoline engine that has the potential to achieve improved fuel economy, lower emissions, and a high power-to-weight ratio.

#### Biography

My name is Keaton Chadwick. I'm currently a Grade 8 student at William G. Davis Senior Public School in Brampton, Ontario. I am an honour student and participate in many extra-curricular activities. I play the trumpet in four bands ? two at school and two with Peel Region. I also play the piano. I am an avid downhill skier and have been skiing for nearly 12 years (since age 2). I also enjoy racing motocross (dirt biking), travelling, and spending time at the cottage. Ever since I was a preschooler I loved to take things apart to discover how they worked. My interest grew to include circuitry, large electric motors, and mechanics. I am passionate about science and was accepted into the SciTech Program for high school. I plan to take mechanical engineering in university.

#### Awards

#### Value

Excellence Award - Junior - Silver Medal Sponsor: Youth Science Canada	\$700
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
<b>Total</b>	<b>\$2 700</b>