

## CWSF 2007 - Truro, Nova Scotia



### Peter MacCauley

#### Send in the Reinforcements

**Division:** Health Sciences / None

**Category:** Senior

**Region:** Bay Area

**City:** Hamilton, ON

**School:** Bishop Tonnos S.S.

**Abstract:** This project studied the influence of reinforcement (position and amount) in the strengthening concrete structures. Eight rectangular cross-section concrete beams with reinforcement varying in location and quantity were deflected until failure employing a homemade jackscrew apparatus. Location of the reinforcement proved to be more important in achieving maximum strength.

#### Biography

I am currently 16 years old and I am enjoying Grade 11 at Bishop Tonnos Catholic Secondary School where I have maintained honour roll status throughout my high school years. I enjoy volunteering in the school cafeteria and I also volunteer within my church community. I have participated in numerous Science/Engineering and Heritage Fairs, collecting many awards. My pastime interests include photography and building scale models, especially trains and muscle cars. I also read extensively and enjoy riding my bike. I plan to continue my education after highschool but have not yet determined my exact path. I will likely pursue something related to the automotive or engineering fields.