

# CWSF 2008 - Ottawa, Ontario



## Joey Charette

### A Device for Testing the Flexibility of Lower Limb Orthoses

**Division:** Health Sciences / None

**Category:** Junior

**Region:** Windsor

**City:** Windsor, ON

**School:** Sandwich West P.S.

**Abstract:** My device is designed to test the flexibility of a lower limb orthosis. Correct flexibility is important since it affects gait. The device is intended to replace subjective 'touch and feel' techniques with a more objective measurement of flexibility. The device was designed to be simple to use - requiring a minimum of training and time. It is light weight, strong and inexpensive to manufacture.

#### Biography

My name is Joey Charette. I am a Grade 8 student at Sandwich West Public School in LaSalle, Ontario. My interests include playing sports, traveling with my family and spending time with my friends. I have a passion for working with metal and enjoy designing and building in my workshop. Some of the things that I am proud of include winning a local CBC story writing contest and competing in the regional science fair for the past two years. My favorite sports are baseball and football. My baseball team has done very well, twice competing for the Little League Provincial Championship. My football team was undefeated this year. Although our family travels have taken us many great places, my favorite vacation is spending time with my family at the cottage. I am looking forward to being at the national science fair this year. I was excited to have been able to present my project at the Grand Rounds at Sunny Brook Health Sciences - George Brown College Prosthetics and Orthotics Program. My goal is to go to university and become a professional engineer, while playing as much football as possible along the way.

#### Awards

#### Value

Honourable Mention - Engineering - Junior Sponsor: Youth Science Foundation Canada	\$100
<b>Total</b>	<b>\$100</b>