

# CWSF 2007 - Truro, Nova Scotia



## Luke Regier

### Blowing Down the Walls of Jericho

**Division:** International / None

**Category:** Junior

**Region:** Simcoe County

**City:** Barrie, ON

**School:** St. Monica's E.S.

**Abstract:** Construction And Testing a Jericho Speaker Cabinet. Test 1: One vs two 3w Koss speakers inside a homemade Jericho speaker cabinet, measured in amplitude and frequency. Test 2: The difference measured in amplitude, frequency and energy savings between a homemade Jericho speaker cabinet and a Yorkville 200w bass amplifier. Test 3: The development of resonance inside the Jericho cabinet, how a Jericho cabinet amplifies the original sound wave.

### Biography

Last year, my science fair project was called Slapshot. It used sound to calculate the velocity of a speeding puck. I won a gold medal at the 2005 Simcoe County science fair for that project. I was once again attracted to completing a science project that included sound. I have always enjoyed playing many instruments including the bass guitar, so I decided to make my project about bass amplifiers. I am looking forward to this experience at my first National Science Fair. I have always wanted to enjoy a career with musical instruments when I'm older, so this is a good place to get my ideas running. Other accomplishments: School Winner of Canadian Open math challenge, Currently studying piano at a grade 5 conservatory level,

### Awards

### Value

Canadian Acoustical Association Award Sponsor: Canadian Acoustical Association	\$500
Honourable Mention - Physical & Mathematical Sciences - Junior Sponsor: Encana Corporation	\$100
<b>Total</b>	<b>\$600</b>

