

# CWSF 2009 - Winnipeg, Manitoba



## Sandro Young, Justin Li

### Wireless Power II: Characterizing Magnetically Coupled Fields

**Division:** Health Sciences / None

**Category:** Intermediate

**Region:** Ottawa

**City:** Ottawa, ON

**School:** Lisgar C.I., Sir Robert Borden H.S.

**Abstract:** For our project, we built a device to wirelessly transmit power through a phenomenon known as magnetically coupled resonance. We then measured and modeled the magnetic field produced by this transmitter, and monitored how it was changed when a resonant receiver was introduced.

#### Biographies

Sandro - My name is Sandro Young, and I am in grade nine at Lisgar Collegiate Institute. I am interested in math, science, electronics, and computing. At the Ottawa Regional Science Fair last year, I was awarded first prize in my category, and won numerous special awards. I recently participated in the Pascal math contest, and came second in my school. I experiment with electronics and write computer programs in my free time. I enjoy music, and I play alto saxophone for our school's Junior Concert Band. Our band recently participated in the Kiwanis Festival, where we were awarded first prize in our category. I am studying piano at the Grade 8 level. I...

Justin - I am a 9th grade student at Sir Robert Borden HS. I am interested in computer and engineering related technologies, and have participated in the Ottawa Regional Science Fair for the past 3 years. I am also interested in music, and play a few instruments.

#### Awards

#### Value

Petro-Canada Peer Innovation Award - Intermediate Ontario North & East Sponsor: Petro-Canada	\$200
The University of Western Ontario Scholarship Silver Medallist - \$1500 Entrance Scholarship Sponsor: University of Western Ontario	\$1 500
Silver Medal - Engineering - Intermediate Sponsor: Youth Science Canada	\$700
<b>Total</b>	<b>\$2 400</b>