

## CWSF 2006 - Saguenay, Québec



### Daniel Lang

#### The Tesla Coil: Transmission of Radiant Energy

**Division:** Health Sciences

**Category:** Senior

**Region:** Regina

**City:** Regina, SK

**School:** Campbell Collegiate

**Abstract:** A Tesla Coil is an air cored resonant transformer. It's purpose is to create intense electromagnetic radiation and wirelessly transmit electrical energy. It does this by amplifying a regular household voltage by tens of thousands of times. It uses resonance to excite two separate circuits, which transfers energy between them. The Tesla Coil spawned modern radio transmission.