

## CWSF 2006 - Saguenay, Québec



### Daniel Lang

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

**Division:** Health Sciences

**Category:** Senior

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**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 seperate circuits, which transfers energy between them. The Tesla Coil spawned modern radio transmission.