

# CWSF 2013 - Lethbridge, Alberta



## Stephane Chenard

### Piezoelectric Generator

**Challenge:** Energy

**Category:** Intermediate

**Region:** Peace Country

**City:** Peace River, AB

**School:** Glenmary School

**Abstract:** We tested the effects of mass and force on the electricity production in Rochelle Salt (a piezoelectric material). The final goal is to make a working piezoelectric generator which will use the kinetic energy of people walking in high traffic areas to produce electricity to help reduce our dependency on fossil fuels.

### Biography

hello, my name is Stephane Chenard. I am from Peace River, Alberta, which is a town in northern Alberta. I enjoy the great outdoors and activities outside such as quading, skidooring, fishing and jet boating. Our project was inspired by the need for renewable energy. We thought there had to be a way to create electricity without creating pollution. We plan on continuing our research as well as building a piezoelectric generator in the near future. My advice for students who are thinking about doing a science fair project is this: GO FOR IT!!

### Awards

### Value

|   |         |
|---|---------|
| Excellence Award - Intermediate - Bronze Medal<br>Sponsor: Youth Science Canada                                 | \$100   |
| Western University Scholarship<br>Bronze Medallist - \$1000 Entrance Scholarship<br>Sponsor: Western University | \$1 000 |
| Total   | \$1 100 |