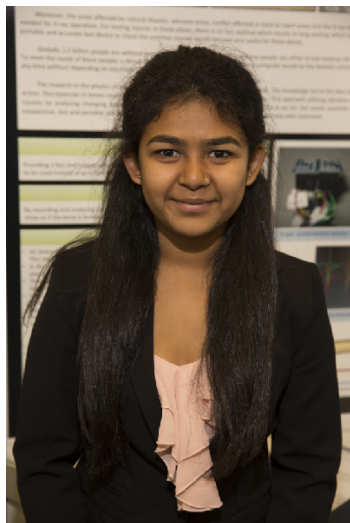


# CWSF 2016 - Montreal, Quebec



## Maitry Mistry

### A Novel Inexpensive Alternative Approach to X-Ray Radiographic Tests

**Challenge:** Innovation

**Category:** Intermediate

**Region:** Manitoba Schools Science Symposium

**City:** Winnipeg, MB

**School:** Fort Richmond Collegiate

**Abstract:** Millions of people suffer from the lack of Radiographic X-rays which leads to an inaccurate diagnosis of the injury and ineffective treatments. This project aims to find a promising, accurate, portable and inexpensive alternative that can be used in remote areas and underdeveloped countries where X-rays are inaccessible. It uses a vibration analysis method to find characteristics that differ a healthy and fractured bone.

#### Biography

My name is Maitry Mistry and I'm currently a grade 10 student at Fort Richmond Collegiate. I have been competing at provincial and regional science fairs for 4 years and this will be my 3rd year representing my province at the CWSF 2016. I enjoy competing in national level math contests as well as competing in sports like swimming and dance. I have a deep passion for using innovative ideas to help solve our world's problems. In order to accomplish this, I have done continuous studies at the University of Manitoba in the field of Biosystems Engineering and Biomedical Engineering. I strive to help the people in my community by volunteering regularly in hospitals, marathons and am enrolled in many charities. I am very enthusiastic about research and innovation so it will be a privilege to share my findings and research with everyone around the country.

#### Awards

#### Value

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