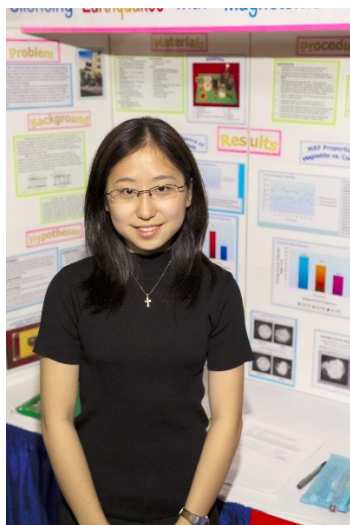


CWSF 2005 - Vancouver, British Columbia



Hanna Cho

Silencing Earthquakes with Magnetorheological Fluid

Division: Engineering & Computing Sciences

Category: Intermediate

Region: Greater Vancouver

City: Vancouver, BC

School: Sir Winston Churchill Secondary School

Abstract: My project focused on enhancing stability in buildings experiencing earthquakes by using a liquid called magnetorheological fluid (MRF), a substance made from iron ore and oil. I examined the efficiency of MRF, as well as the best ore-oil proportion to achieve maximum reduction in vibration using a home-built earthquake generator.

| Awards | Value |
|---|---------|
| 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 Foundation Canada | \$700 |
| Total | \$2 200 |