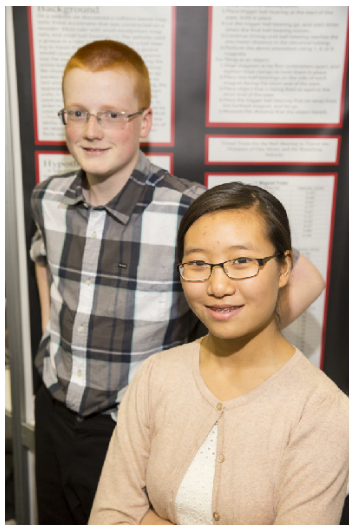


## CWSF 2015 - Fredericton, New Brunswick



### John Berger, Sally Zhou

#### Magnetic Energy!

**Challenge:** Energy

**Category:** Intermediate

**Region:** Southeast Alberta

**City:** Medicine Hat, AB

**School:** Medicine Hat High School

**Abstract:** Magnetic Energy! was focused on achieving acceleration without the use of fossil fuels. To test this, 5/8" ball bearings were fired with different numbers of neodymium magnets in a half pipe. This concept was then used to launch objects of different weights to demonstrate the ability to perform work. This project could inspire future developments of clean energy sources.

#### Biographies

John - My name is John Berger and I am a grade nine student at Medicine Hat High School in Alberta. This is my first CWSF with my partner Sally Zhou, and our project is called "Magnetic Energy!" At our regional science fair we won the Hat Smart award for a science fair project that focused on clean energy sources. The idea for our project came from our online research in which we found a linear accelerator powered by neodymium magnets. In the future we would like to investigate the possible applications of this non fossil fuel energy source. I would encourage any students interested in science fair to find a fun idea that interests them.

Some of my ...

Sally - I am a 15 year old grade 9 student at Medicine Hat High School. This is my first year participating in the Canada Wide Science Fair with my partner John Berger. At our regional science fair this year, we won the Hat Smart award for a project that focuses on clean energy. The inspiration for our project occurred when we came upon an online research where we saw a linear accelerator that was composed of neodymium magnets. In the future, we would like to investigate further into the applications for this fossil fuel less energy source. For those that are thinking of doing a project, I would encourage them to explore into anything that interests ...

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