

## CWSF 2012 - Charlottetown, Prince Edward Island



### Skyler Haugen, Luke Halyk

#### Break the Ice! How does ionic interference affect the strength of ice?

**Challenge:** Discovery

**Category:** Intermediate

**Region:** Carlton Trail

**City:** Wakaw, SK, Foam Lake, SK

**School:** Wakaw

**Abstract:** The strength of ice is a concern for many people in our society - from curlers, hockey players, ice-road truckers to ice fishers. Our project investigates the parameters of ice strength by attempting to generate a mathematical relation between electrical resistance of water samples and the strength of ice produced from the sample. Our initial results show the possibility of generating a useful relation.

#### Biographies

**Skyler** - My name is Skyler Haugen. I am 15 years old and I'm in grade 9. I live in the small town of Wakaw, Saskatchewan. I love playing all types of sports like hockey, fastball, track and field, volleyball, badminton, basketball, cross-country, hunting, and fishing. This year in hockey I played on the Humboldt Broncos Bantam AA team. In volleyball, I am the setter and this past fall we won Districts. During track and field, I participate in the 3000m, 1500m, 800m, and hurdles. This year in cross-country I qualified for Provincials. I'm also into my music and love playing my guitars. I'm very excited to attend CWSF this year as it is my second year. ...

**Luke** - I am in grade 8. I come from a community of 1300 people. I play many sports: Hockey, Baseball, Football, golf, and I have played basketball. I am taking my grade 5 piano for the royal conservatory of music in June. I am a musical person. I have taken guitar for three years, trumpet for 4 years, and piano for 8 years. I am particularly interested in rock, house, dubstep and some pop. I attended the CWSF last year, with a project about resistance and temperature. Even though I have some time to think about it, I am thinking of going into the film industry after high school. I enjoy making videos, movies and montages. I am very interested in the s...

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