

## CWSF 2016 - Montreal, Quebec



### Alexander Magnus, Alyson Cook

#### Crooked Chemistry

**Challenge:** Discovery

**Category:** Senior

**Region:** Northwest Saskatchewan

**City:** Luseland, SK, Major, SK

**School:** Luseland School

**Abstract:** We tested the chemical difference between Crooked and Non-Crooked Aspen Trees on the Synchrotron at the University of Saskatchewan in an attempt to find the reason for the abnormal growth of the crooked trees. We discovered that there were substantial differences in levels of the same species of iron, zinc, chromium and calcium between the two types of trees.

#### Biographies

Alexander - I'm a small town farm boy from Luseland, Saskatchewan. I love math, satire, and rock and roll. I've always been interested in STEM fields, so I was naturally drawn to take part in Science Fair. I plan to attend the University of Saskatchewan next year in the Bachelor of Arts and Sciences program. During our project my partner and I attempted to discover the cause of a genetic anomaly that existed amongst a grove of aspen that caused them to grow incredibly crooked. The crooked trees are a local legend around where I grew up, and when the opportunity came to take use the Synchrotron to uncover their secret, I jumped on it. Being able to try an...

Alyson - I am a grade 12 student currently enrolled in Luseland School, a small high school in rural Saskatchewan. I am extremely involved in my school and community, as I am a part of the Student Representative Council and the School Community Council, as well as an active 4-H member. I am also the captain of my volleyball team, the point-guard on my basketball team, and a track and field athlete. I have been conditionally accepted to the University of Saskatchewan's Arts and Science Program and will hopefully be attending this fall. I am majoring in Health Studies and hope to pursue a career in the medical field. I got inspired for my project while ...

#### Awards

#### Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
<b>Total</b>	<b>\$2 000</b>

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