

## CWSF 2014 - Windsor, Ontario



### Beth Springer

#### Does Your Wood Have Gas?

**Challenge:** Energy

**Category:** Junior

**Region:** Parkland

**City:** Foam Lake, SK

**School:** Foam Lake Composite High School

**Abstract:** My project this year is about using wood gas, (gas that is produced during the process of creating biochar) in place of fossil fuels. Biochar is any organic matter burnt in the absence of oxygen. In order to use wood gas as a fossil fuel, it needs to be pure enough to run in an engine without clogging it up.

#### Biography

My name is Beth Springer. I have gone to the Foam Lake Elementary School, and am now going to the Foam Lake Composite School. Some Community activities that I take part in are, dance, 4-H, Curling, badminton, and public speaking. My hobbies are, raising chickens, and working on the farm. I enjoy working with animals such as my 4-H animals, I really like dance, I have been taking dance since I was 4, and I plan to keep dancing until my graduation. Some awards and achievements are, winning 4-H provincial curling, getting second in provincial public speaking, getting the tap spirit award, I've got 2nd in districts in cross-country in grade 5, and I have got 1st place in districts cross-country in grades 6, 7, and 8. Last year I got the opportunity to go to Canada wide as I am this year also. I wanted to do the project that I did because after I heard that it helped us through World War 2, I wanted to bring it back. If I carried on with this project, I would need to find a way to make the gasifier more efficient so it purified the gas even more.

#### Awards

#### Value

Excellence Award - Junior - Bronze Medal Sponsor: Nuclear Waste Management Organization	\$100
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$1 100