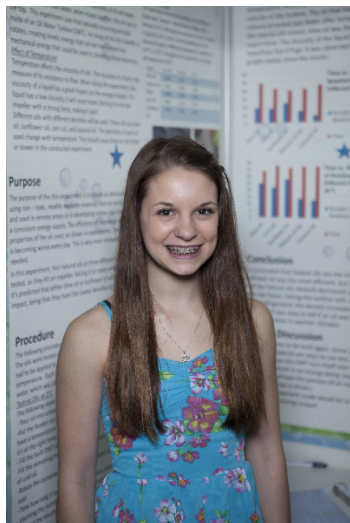


ESPC 2013 - Lethbridge (Alberta)



Sierra Oakes

Opposites Make a Powerful Difference

Défi: Énergie

Catégorie: Intermédiaire

Région: South Shore

Ville: Bridgewater, NS

École: Bridgewater Junior-Senior High School

Sommaire: Opposites Make a Powerful Difference is creating energy using different natural oils and water. For an example, olive oil is less dense than water, therefore it rises. In this experiment, the oil rises, hitting a propeller, making it spin. This energy can be converted into electricity. Different oils are also tested to see which has the greatest effect/energy created.

Biographie

My name is Sierra Oakes. I am a 14-year-old girl who enjoys cheerleading, gymnastics, volleyball, and Track and Field. My cheerleading team is like my family. Last year, we went to provincials, and this year we're even better! I've also earned many awards through gymnastics. My hobbies are drawing, reading (My favourite magazine is National Geographic), solving puzzles, baking, and running. I got the idea for my project one day this past winter. I was baking a cake, and the first two ingredients were olive oil and water. I knew that I had to pick a science fair topic soon, and wanted to do my project on some type of renewable energy. So, I thought, why not work against gravity, and use oil and water instead? I thought it was a cool idea, so I went to work and figured it out! If I were to change something about my project, I would try to experiment with different liquids and densities. Doing this, I could find out which two liquids create the most energy! The advice that I would give students thinking about doing a project is to let a topic come to you, and do only what interests you!

Prix

Valeur

Prix d'excellence - Intermédiaire - Médaille de bronze Commanditaire: Sciences jeunesse Canada	100,00 \$
Bourse d'études de Western University Médaille de bronze - Bourse d'admission de 1 000 \$ Commanditaire: Université Western	1 000,00 \$
Total	1 100,00 \$