

ESPC 2013 - Lethbridge (Alberta)



Biographie

My name is Nicole; I am a junior-high student from Calgary. I really love science because it opens worlds of discovery and application. This is my first Canada-Wide Science Fair and I have participated in three Calgary Youth Science Fairs. My past projects have been on fluid dynamics, which I find both intriguing and challenging. This year I furthered my knowledge of fluid mechanics, by investigating cavitation. I love the performing arts: drama, guitar and dance. At school, I am involved in yearbook and directing the musical production. Writing, sculpting, and illustrating are how I spend free time. In the past, my art has been featured on two magazine covers and in a museum. I believe art is a great tool for teaching science. I learned about this connection when I created a science poster illustrating different types of energy production. This poster was awarded first-place at the "North American Air and Waste Water Management Conference". In the future I hope to have a PhD and become a science photographer. I am ecstatic to be attending the Canada Wide Science Fair. This is a wonderful opportunity to promote science to Canadians and encourage youth to pursue their curiosity.

Nicole Schmidt

Double Bubble, Boil and Trouble

Défi:	Découverte
Catégorie:	Junior
Région:	Calgary Youth
Ville:	Calgary, AB
École:	F. E. Osborne School
Sommaire:	Researching the process

mmaire: Researching the process of cavitation by altering the liquid conditions that impact the stages of bubble formation and implosion; and experimentation with the toroidal bubble phase. The liquids are changed thermodynamically and by varying viscosity and density through the addition of NaCl. To apply the components of the Rayleigh-Plesset equation to further understand the dynamics of cavitation bubbles in different liquid conditions.

Prix	Valeur
Prix d'excellence - Junior - Médaille d'argent	300,00 \$
Commanditaire: Sciences jeunesse Canada	
Bourse d'études de Western University	2 000,00 \$
Médaillé d'argent - Bourse d'admission de 2 000 \$	
Commanditaire: Université Western	
Total	2 300,00 \$



Sciences jeunesse Canada B.P. 297 Pickering (Ontario) L1V 2R4 www.youthscience.ca / info@youthscience.ca 416-341-0040

