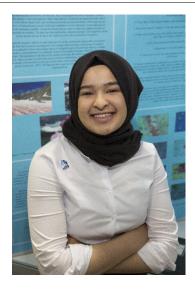




CWSF 2019 - Fredericton, New Brunswick



Biography

I am a student at Medicine Hat High School in Grade 11 and I became interested in doing a Science Fair project last year because I had competed at lower levels and wanted to do something more advanced. I am in a drama production and several clubs at school and I work part-time so I didn't have enough time to finish the project last year but I came back to the lab this year and have been working on it since November. Progress was slow because there was no snow at the beginning of winter and algae take weeks to grow when the starting innoculum is low. I will graduate next year and hope to enter a science program at the University of Alberta. I expect to do another project next year in my final year of high school.

Sidra Ahmed

Snow: The Purest of Impurities

Challenge:	Discovery
Category:	Senior
Region:	Southeast Alberta
City:	Medicine Hat, AB
School:	Medicine Hat High School
Abstract:	This project showed that bacter
	and can be recovered and cultu

tract: This project showed that bacterial spores and algae are present in snow and can be recovered and cultured in the laboratory. I speculated that both could function as ice nucleation sites and tested it using a freezing water bath and timing the freezing of water droplets. I found that some but not all of the algae cultures could ice nucleate but not the bacterial spores.



Youth Science Canada PO Box 297 Pickering ON L1V 2R4 www.youthscience.ca / info@youthscience.ca 416-341-0040

