

CWSF 2018 - Ottawa, Ontario



Amy MacFarlane

Preventing the Growth of Cyanobacteria Blooms Using Natural Resources

Challenge: Environment

Category: Senior

Region: East Parry Sound

City: South River, ON

School: Almaguin Highlands H.S.

Abstract: The mix of physical, biological and chemical controls on the formation of cyanobacteria blooms is complex. However, higher temperatures & excess nutrients (phosphorus and nitrogen) are classified as the most influential components of cyanobacteria blooms. The objective of my project is to use a microcosm experiment to reduce the levels of phosphate and nitrate in water to prevent the growth of cyanobacteria blooms.

Biography

Amy MacFarlane is a grade 11 student at Almaguin Highlands Secondary School. She is an active leader in her school and village community. Amy is a competitive figure skater, creator of the iMatter project; a children's mental health initiative for youth in the Almaguin area. Amy will also be attending SHAD 2018 in Sackville, New Brunswick at Mount Allison University. Amy became interested in preventing cyanobacteria blooms while working at Mikisew provincial park. Working in a setting that is dedicated to maintaining and enhancing ecological integrity while protecting natural features made her realize the importance of maintaining the environment and the ecological impact that cyanobacteria is making on our bodies of water. Amy would like to encourage other young minds to divulge in the world of science as there is a lot to be discovered. Although there is more to science than just discovery, it is taking initiative in your own education. This will be Amy's third CWSF. In previous years she has attended Montreal 2016 and Fredericton 2015. Amy is extremely honoured and excited to attend CWSF 2018 at Carleton University in Ottawa, Ontario.

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