

CWSF 2010 - Peterborough, Ontario



Danielle Moore, Jasmine Kwok

Developing & Degrading Starch Based Plastics

Division: Health Sciences

Category: Intermediate

Region: Toronto

City: Toronto, ON

School: Francis Libermann C.S.S.

Abstract: This project explored types of starches (potato, cassava and corn) as a component of degradable plastic. These plastics were made with the plasticizer propan-1,2,3,-triol, and were degraded in a controlled lab incubator. Determined by their weight losses after degradation, the potato starch-based was the strongest, although all the starch-based samples degraded effectively.

Biographies

Danielle - As a 15 year old high school student, my life is pretty busy- from being involved with clubs around the school; Free the Children, Band, and Leadership to extra-curricular; Tae Kwon Do and Piano. I enjoy doing many things in my spare time such as running, biking, painting, playing piano and just hanging out with the people I love most. As for achievements, I've won a few things here and there... but what I'm most proud of is receiving my second degree black belt-- but getting to go to the Canada Wide Science Fair comes extremely close. For the future, I hope to travel, see the world, and try to make a difference through positive change. Unive...

Jasmine - My name is Jasmine Kwok and I am in tenth grade. I go to Francis Libermann Catholic Secondary School in Ontario. In school, I am involved in many leadership groups, including Camp Olympia, Libermann Leaders and a social activist group. In the past I have also joined my school's track and field, badminton and cross country team. In my spare time I like to play the piano and to run. When I grow up I hope to pursue innovations towards helping the environment, or to become a nutritionist.

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