

## CWSF 2019 - Fredericton, New Brunswick



### Hayden Persad

#### Using Potato Peel Waste as a Polymer Source in the Creation of a Bioplastic

**Challenge:** Resources

**Category:** Intermediate

**Region:** West Kootenay & Boundary

**City:** Creston, BC

**School:** Prince Charles Secondary

**Abstract:** Plastic has become a huge environmental problem. The world needs an alternative. A bioplastic is a substance that has the properties of a typical plastic but is made from a biological substance other than petroleum. Many current bioplastics use food sources such as corn. This project shows how a bioplastic can be made from the starch extracted from potato peel waste.

#### Biography

My name is Hayden Persad. I am 15 years old and in Grade 9. I live in Creston, BC and love playing sports such as soccer and basketball. This is my third year coming to CWSF. I had so much fun the last two years that I was determined to come again. I am inspired to help the world so I have created an alternative to traditional plastics using food waste. I hope in the future people can use my bioplastic on a daily basis. My advice to other students would be to solve a problem that they are passionate about!

#### Awards

#### Value

Excellence Award - Intermediate - Silver Medal Sponsor: Youth Science Canada	
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
Total	\$2 000

