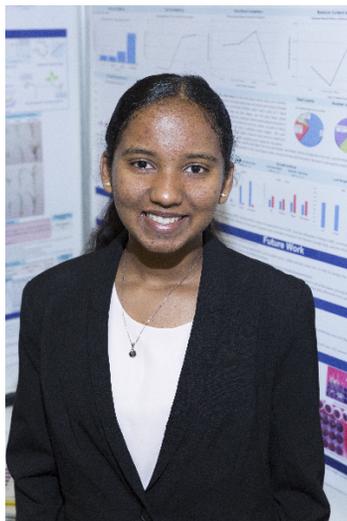


CWSF 2018 - Ottawa, Ontario



Madhumita Chandrasekaran

A Novel Approach to Efficiently Recycle Used Diapers in Optimizing Plant Growth

Challenge: Discovery

Category: Junior

Region: Manitoba Schools Science Symposium

City: Winnipeg, MB

School: Acadia School

Abstract: Landfill overpopulation, the food crisis, and the water shortage are concerns that may cause devastating effects. Diapers play a major role in landfills, so they were analyzed as an alternative to solving these issues and many others, while enhancing plant growth with a very necessary application to agriculture. Plant growth was analyzed using many parameters, variables, and derived calculations, enforcing the benefits of this method.

Biography

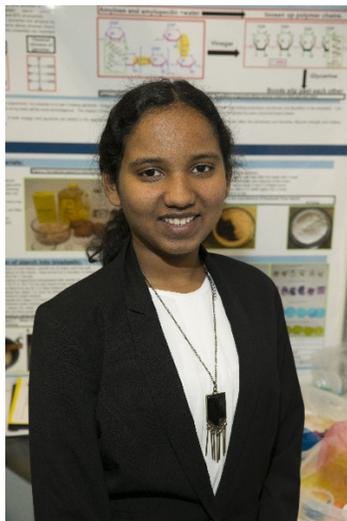
My name is Madhumita Chandrasekaran. I am 13 years old, and am in grade 8 at Acadia Junior High School (Winnipeg, Manitoba). I love debating, science, and math. I participate in sports such as badminton, basketball, swimming, dance, ultimate frisbee, etc. I also enjoy participating in volunteering activities. My future goal is to become a scientist, and I am particularly interested in the field of biology. My achievements include the most outstanding individual award (Junior division) from the Manitoba Schools Science Symposium, the best overall project at my school science fair, as well as third place at my regional SANOFI Biogenius competition. I would like to encourage other students to participate in science fair to benefit from the experience it provides, and gain inspiration from learning about new discoveries!

Awards

Value

The Actuarial Foundation of Canada Award - Junior Sponsor: The Actuarial Foundation of Canada	\$500
Excellence Award - Junior - Gold Medal Sponsor: Youth Science Canada	
Challenge Award - Discovery - Junior Sponsor: Youth Science Canada	
Western University Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: Western University	\$4 000
Total	\$4 500

CWSF 2017 - Regina, Saskatchewan



Madhumita Chandrasekaran

The effect of vinegar and glycerine in starch-based bioplastics

Challenge: Environment

Category: Junior

Region: Manitoba Schools Science Symposium

City: Winnipeg, MB

School: Acadia School

Abstract: I am creating a plastic that doesn't pollute the Earth. By making a bio plastic from organic material, we ensure that it degrades, and doesn't pollute the planet by doing so. I am attempting to see which of my trials will be more advantageous. The flexural strength test, and the folding endurance test were performed on each bio plastic type to test their quality.

Biography

My name is Madhumita Chandrasekaran. I am 12 years old, and attend grade 7 at Acadia Junior High school (Winnipeg, Manitoba). I love debating, and Science and Math challenges. I participate in sports such as badminton, basketball, and swimming. I love playing guitar, being in choir, and doing art too. I am currently learning classical dance (Bharatanatyam). I participate in other volunteering activities. My career plan is to be a scientist, and I am particularly interested in biology. My achievements include an outstanding physical sciences award from the Manitoba Schools Science Symposium, an academic achievement award a year earlier, and a best in grade award from my school science fair, among others. I stumbled upon a similar topic using Google Science Fair where a girl named Elif Bilgin made a bio plastic with banana peels. Next year, I plan to make a bio plastic from the residues of Manitoba crops. Since I didn't have the time to do it this year, I am eager to try and accomplish this next year. I would like to encourage other students to participate in Science fair and benefit from the growth it provides by allowing them to make and learn about new discoveries!

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