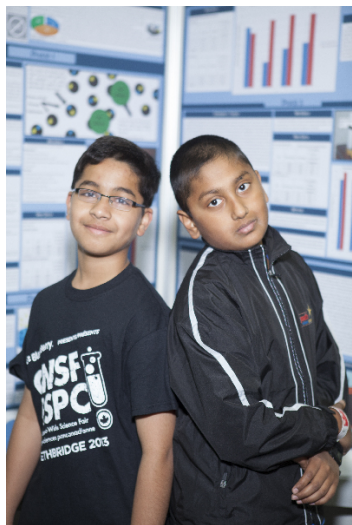


CWSF 2013 - Lethbridge, Alberta



Rushi Gandhi

Purification of Indoor Air Through Absorption of Volatile Organic Compounds

Challenge: Environment

Category: Junior

Region: Peel

City: Brampton, ON

School: Tomken Road Senior P.S.

Abstract: Indoor Air Pollution: a ubiquitous problem that seems to elude a lasting solution. Eliminating Volatile Organic compounds as a source of indoor air pollution is typically achieved by physical absorption in a substrate. This experiment studies different techniques to enhance the absorption including introducing a liquid as a medium for absorption under various physical conditions.

Biography

Rushi Gandhi is a grade 7 student at the Tomken Road Middle School Science & Technology Program and has a great interest in science and innovation. His passion for scientific inquiry has him involved in many competitions, such as Skills Canada Robotics challenge and winning the Regional First Lego League Robotics competition. Rushi also enjoys competing in sports such as swimming and table-tennis. He has achieved many notable awards. Achieving the Math Student of the Year Award demonstrates his excellence in Mathematics. His motivation towards science has lead him to achieving the Gold medal at the Peel Science Fair. Rushi's grandpa had been a victim of asthma and respiratory diseases. He had witnessed him struggle and seen the extensive damage that indoor air pollution can do to the human body. Rushi's desire for knowledge coupled with his curiosity has inspired him to investigate on the worldwide phenomena of indoor air pollution and how we can reduce it. He would like to extend his learning of the project by researching further on enhancing the techniques currently used in the project. Rushi intends to continue to focus on the wonders of science and technology and enter a career in that field.

Awards

Value

Excellence Award - Junior - Silver Medal Sponsor: Youth Science Canada	\$300
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
Total	\$2 300