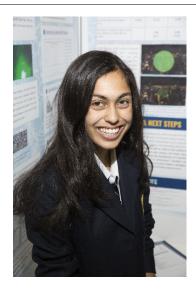




CWSF 2019 - Fredericton, New Brunswick



Shreya Gandhi

Smarticle Particles: Laser-absorbing gold nanoparticle solution for airplanes

Challenge: Discovery
Category: Intermediate
Region: Vancouver Island
City: Victoria, BC

School: Glenlyon Norfolk School

Abstract: Even 5mW laser pointers are strong enough to reach and interfere with the

operation of an aircraft when shone at the sky, blocking a pilot's view of their surroundings with bright light. 100 nm gold nanoparticles with large optical cross-sectional areas range were used for their SPR properties in a transparent coating to absorb and scatter the light of a 532 nm wavelength

green laser.

Biography

Hi! My name is Shreya Gandhi, and I am in Grade 10 at Glenlyon Norfolk School. Aside from science fair, I love to dance, debate, take photos, engage in Model UN, and play the piano. I also enjoy volunteering with an organization called Science Venture, which aims to inspire Vancouver Island youth to explore the sciences through innovative STEM experiences. Science is one of my favourite subjects in school, and I was inspired by my sister last year to pursue a project. I've had so much fun throughout this experience and would definitely recommend participating to any students considering it.

Awards	Value
Excellence Award - Intermediate - Bronze Medal	
Sponsor: Youth Science Canada	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$1 000



