

CWSF 2017 - Regina, Saskatchewan



Nicole Sonnichsen

The Tesla Smarkade ? Wireless Electric Car Charging Parkade

Challenge: Innovation

Category: Junior

Region: West Kootenay & Boundary

City: Nelson, BC

School: Trafalgar Junior Secondary

Abstract: Electric vehicles will soon become more affordable and gain popularity, which is important to reduce greenhouse emissions. Most electric vehicles are charged by plugging them in with a cord. My project uses a homebuilt Tesla coil model to explore the possibility of large-scale wireless electric car charging. I believe wireless vehicle charging parkades would make electric car technology more appealing to consumers.

Biography

Hi! My name is Nicole, and I live in Nelson, BC. I am currently in grade 7 French Immersion. Here in BC, we are fond of mountain culture. Many people take advantage of being in the mountains around Nelson - we have a great ski hill! I am a member of the Nelson Reflections synchronised swimming club, which is my main sport, which I really enjoy. I also play the flute with my school band. In my free time, I enjoy beading, baking and reading. In the future, I would like to get a science degree and consider studying medicine. This is my first trip to Saskatchewan and I am really excited about this opportunity to be around other scientists. My project started with an interest in Tesla Coils and how they could be used practically. I have really found this project interesting and would like to continue developing the concept of the Tesla Smarkade. I am very excited about our upcoming week in Regina and look forward to all of the opportunities it has to offer!

Awards

Value

Carlson Wagonlit Award - Junior	\$500
Sponsor: Carlson Wagonlit Travel	
Total	\$500