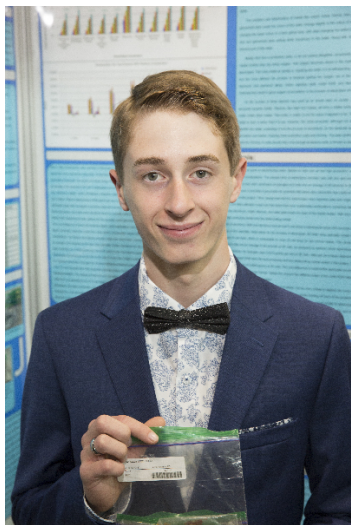


CWSF 2019 - Fredericton, New Brunswick



Adam Patton

The Power of Hydrogen

Challenge: Energy

Category: Intermediate

Region: Cariboo Mainline

City: Kamloops, BC

School: St Ann's Academy

Abstract: The goal of this project was to find cheaper and more readily available alternative electrode alloys than platinum to split water using electrolysis for hydrogen fuel production. Lowering the cost of hydrogen fuel production would mean that hydrogen can be made in a clean and efficient manner. This alternative fuel can be used in fuel cells and hydrogen engines, making 100% clean, renewable energy.

Biography

My name is Adam Patton. I am a grade 10 student in Kamloops, BC, where I attend St. Ann's Academy. I enjoy downhill skiing and playing golf, along with participating in science-related activities. I have participated in science fair and have gone to CWSF for the past three years. Renewable energy and the potential of hydrogen fuel has always interested me. My inspiration for this project came out of extensive research into hydrogen energy. My goal for this year was to correct the failures of previous projects while trying to find alternative electrodes for hydrogen production using electrolysis, creating clean hydrogen fuel. This will hopefully contribute to the solving of the clean energy crises that our world is facing. I wish to pursue a career in a STEM-related field, hopefully relating to renewable energy. Although this project was successful in finding alternative electrodes for hydrogen production using electrolysis, I will continue my research regarding alternative renewable energies to further advocate the use of hydrogen fuel. My advice for others is to look into renewable energy sources and help contribute towards the battle against climate change. Every experiment, innovation, or study is a helpful contribution to this fight.

Awards

Value

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|---|---------|
| 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 |