



## CWSF 2019 - Fredericton, New Brunswick



## 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.

## **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.

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



Youth Science Canada PO Box 297 Pickering ON L1V 2R4 www.youthscience.ca / info@youthscience.ca 416-341-0040

