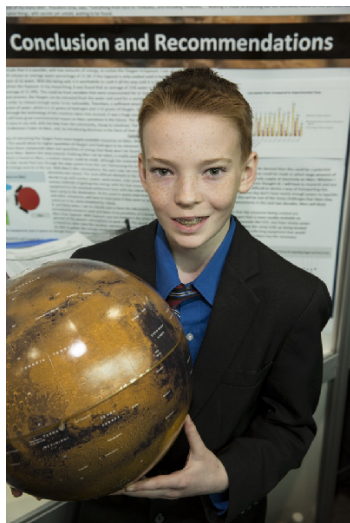


CWSF 2015 - Fredericton, New Brunswick



Jesse Plamondon

Breathable Rock: A Novel Approach to Isolating Oxygen in CaSO₄ H₂O for on Mars

Challenge: Innovation

Category: Intermediate

Region: Northern British Columbia

City: Fort St. John, BC

School: Bert Bowes Jr Secondary

Abstract: In this project, I was trying to discover a mineral that could be found on Mars, which contained Oxygen, and build a machine that could extract this Oxygen. I built this machine and used it to extract Oxygen from Gypsum, which can be found on Mars commonly, and extracted water from it. The machine then electrolyzed this water and separated it into Hydrogen and Oxygen.

Biography

I am a grade nine student at Bert Bowes middle school and have been doing Science Fair for nearly all my life. My favorite subjects in school are Chemistry, Astronomy and P.E. I largely enjoy sports, especially basketball, badminton and hockey. The reason I did the project that I did is because I wanted to work on solving a problem bigger than myself. Also, I have always been very interested in Mars and the idea that not a single person has been on that entire planet. Although one of my main passions is Science Fair, my dream is to become an author with my books selling across the globe. I have gone to Canada Wide two times before this and they were boyhood changing experiences. I love to hang out with my amazing group of friend's whom of which I know will always be my pals.

Awards

Value

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