

# CWSF 2012 - Charlottetown, Prince Edward Island



## Brandon Whitley

### The Living Wall: An Educational Innovation

**Challenge:** Innovation

**Category:** Senior

**Region:** Frontenac, Lennox & Addington

**City:** Kingston, ON

**School:** Kingston Collegiate Vocational Institute - KCVI

**Abstract:** The use of an innovative design in the creation of portable living walls has been developed and used to provide an interactive and completely original scientific educational experience for topics of sustainability and development, the importance of biodiversity, environmental consciousness, and how the living wall connects this information all whilst improving human living conditions in multiple manners. The innovation has been tested effectively.

### Biography

My name is Brandon Whitley and I am a 16-year-old Grade 11 student attending school at KCVI in Kingston, Ontario. I am emerged in the full International Baccalaureate Program, as well as taking Grade 12 Latin "on the side". I am an active member of contact karate and throughout the year I work four jobs, three in affiliation with the Queen's University Institution. These jobs consist of: an analytical laboratory technician, a standardized patient actor, and a greenhouse employee. I also regularly babysit. I enjoy participating in extracurricular activities, and I have completed my Bronze, and nearly Silver, level in the Duke of Edinburgh Award. After school, I hope to pursue a career in the Biological field, whilst earning a minor in French. This project's inspiration came from my Grade 11 Environmental Sciences Class last year, in correlation with a University Student that brought forth the concept of Living Walls. For further investigations, I would like to better enhance the walls to provide a better educational and interactive experience. I would also like to look into how to make them more effective in air filtration. For future advice, I strongly suggest that students pick a field they are passionate about.

### Awards

### Value

Excellence Award - Senior - Silver Medal Sponsor: Youth Science Canada	\$700
Dalhousie University Faculty of Science Entrance Scholarship Senior Silver Medallist - \$2500 Entrance Scholarship Sponsor: Dalhousie University, Faculty of Science	\$2 500
UBC Science (Vancouver) Entrance Award Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: The University of British Columbia (Vancouver)	\$2 000
University of Ottawa Entrance Scholarship Senior Silver Medallist - \$2000 Entrance Scholarship Sponsor: University of Ottawa	\$2 000
Western University Scholarship Silver Medallist - \$2000 Entrance Scholarship Sponsor: Western University	\$2 000
<b>Total</b>	<b>\$9 200</b>