

CWSF 2011 - Toronto, Ontario



Nicholas André Johnson

Battle of the Bridges

Challenge: Innovation

Category: Junior

Region: Montreal

City: Outremont, QC

School: École Selwyn House (campus 1)

Abstract: The objective of my project is to determine whether or not a Suspension Bridge is stronger than a Warren Truss Bridge. I observed how these two bridge designs respond to live load by measuring the vertical displacement of each bridge's roadbed when the same amount of weight was applied. After conducting 42 trials, my hypothesis was accepted.

Biography

Born on December 21, 1997 in the town of Gaspé, Quebec, this aspiring engineer has demonstrated an insatiable appetite for Science and Math since an early age, competing in local Science Fairs since Grade 3, when he first became eligible to participate, and representing Selwyn House School (SHS) at the Montreal Regional Science Fair annually, earning multiple medals and other awards. An avid chess player, Nicholas André successfully defended over seven chess championship titles between 2008 and 2010 and earned the "Under-12 Provincial Chess Champion" title at the Quebec Chess Federation (FQE) Championship in 2009. He achieved the top result among students entering Grade 7 at the 2010 North American Chess Championship and finished in 3rd Place at the Quebec Chess Challenge on April 10, 2011. He is the "2010 Provincial Pythagorean Math Champion". A dedicated athlete, Nicholas André holds a Brown belt in Karate, is the recipient of the "2010 Most Promising Award" in basketball, and a member of the local soccer and basketball "A" teams. A disciplined piano student, he has performed in benefit concerts in support of early childhood education, among other charities. He plays alto-saxophone in SHS Jazz Band and performs with the Montreal Jazzkidz Orchestra.

Awards

Value

Excellence Award - Junior - Bronze Medal Sponsor: Youth Science Canada	\$300
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Total	\$1 300