



CWSF 2018 - Ottawa, Ontario



Biographies

Griffon - Griffon Thomas is a hobbyist programmer and lover of mathematics. He plays chess, solves Rubik's Cubes, and occasionally tries to learn a bit of Korean. While doing so, he often listens to Vaporwave, a type of highly obscure music spawned from the internet's collective compost heap of 90's music and commercials. He is a student at a small K-12 school with only 150 students in Lion's Head, Ontario. Griffon just returned from that school's class trip to Europe, and this August he will leave Canada for a full year, hosted in South Korea on a Rotary exchange. He became involved with The Clubroot Epidemic project after his partner Zach ask... Zachary - I began work on this project in early summer. At that time I did not know I was going to be doing it as a science fair project. I used my drone to take aerial footage of feilds as a favour to local farmers in my community. Once the school year began I started seeking help from my friend, Griffon Thomas, to see what else could be done with the footage. We continued to explore the complexity of the images and began to look for patterns. Eventually we decided that the information we found would be more valuable to share then to just know for ourselves. As the regional science fair approached we continued to research clubroot, make image comparis...

Griffon Thomas, Zachary Rodgers

The Clubroot Epidemic

Challenge:	Innovation
Category:	Senior
Region:	Bluewater
City:	Lion's Head, ON, Northern Bruce Peninsula, ON
School:	Bruce Peninsula District S.S. & E.S.
Abstract:	This project created and tested an innovative technique that any farmer could use to identify patches of clubroot infected canola, given only drone footage of the field and computer algorithms specifically programmed as part of this venture. This unique procedure successfully proved that it was possible to obtain an accurate measurement of how widespread the clubroot infection was within the field that was under investigation.

Awards	Value
Excellence Award - Senior - Bronze Medal	
Sponsor: Youth Science Canada	
Carleton University Entrance Award	\$1 000
Senior Bronze Medallist - \$1,000 Entrance Award	
Sponsor: Carleton University	
University of Ottawa Entrance Scholarship	\$1 000
Senior Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$1 000
Bronze Medallist - \$1000 Entrance Scholarship	
Sponsor: Western University	
Total	\$3 000



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

