



## CWSF 2010 - Peterborough, Ontario



## Biography

My name is Cody Shaw. I was born in Manitoba on June 2, 1993, and lived my life there so far. I have jumped from school to school, ranging from rural schools to my current city high school, Fort Richmond Collegiate. I have a very high standard for school subjects and classes that interest me, including Physics, Calculus, Chemistry and Computer Science. Some activities that I take part in outside of school other than extensive Science Fair work would be being a part of a charity group called "The Speed Gamers", who do lengthy video game marathons for various charities. To date, we have raised over \$130,000. Another one of my large hobbies would be computers. I have built multiple high end "enthusiast" computers over my grade school life, mainly for gaming and entertainment purposes. I also spend a large amount of time following the Large Hadron Collider, as Theoretical Physics is one of my favourite interests. For my post secondary education, I plan on getting a double major in Particle Physics and Electrical Engineering, and then upgrading the EE major to a PhD, so that I can follow my dreams and maybe someday work along side the LHC.

## **Cody Shaw**

Phononic	Crystals:	Revisited
----------	-----------	-----------

Division:	Physical & Mathematical Sciences
Category:	Senior
Region:	Manitoba Schools Science Symposium
City:	Ste. Agathe, MB
School:	Fort Richmond Collegiate
Abstract:	This project demonstrates that phononic crystals built to affect ultrasonic sound can be scaled to affect audible sound in a similar manner. As expected, the crystal constructed for audible sound shows similar properties to its smaller counterparts, including band gap and focusing effects. This submission enhances a preliminary attempt by taking a multidisciplinary approach to the measurement and processing of experimental data.

Awards	Value
Canadian Acoustical Association Award - Senior	\$1 000
Sponsor: Canadian Acoustical Association	
Dalhousie University Faculty of Science Entrance Scholarship	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
UBC Science (Vancouver) Entrance Award	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
University of Ottawa Entrance Scholarship	\$3 000
Senior Silver Medallist - \$3000 Entrance Scholarship	
Sponsor: University of Ottawa	
The University of Western Ontario Scholarship	\$2 000
Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Western Ontario	
Silver Medal - Physical & Mathematical Sciences - Senior	\$700
Sponsor: Encana Corporation	
Total	\$10 700



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

