



## CWSF 2006 - Saguenay, Québec



## **Devon Thomson**

ShakeLess Structures: Designing an Earthquake Resistant Building

**Division:** Health Sciences

Category: Junior

Region: Annapolis Valley
City: Wolfville, NS
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**Abstract:** Models of earthquake resistant buildings constructed of unattached wooden

blocks were stabilized using several structural modifications: overlapping blocks, building height, buttresses, base isolators (marbles in a box), roofs and cross braces. Experiments were conducted on a homemade earthquake machine. Buildings of overlapped blocks on a base isolator

were most stable.



