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Devon Thomson

ShakeLess Structures: Designing an Earthquake Resistant Building

Division: Health Sciences

Category: Junior

Region: Annapolis Valley

City: Wolfville, NS

School: Wolfville School

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.