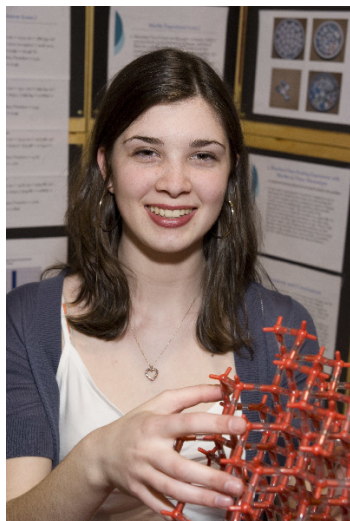


# CWSF 2008 - Ottawa, Ontario



## Virginia Georgallas

### All Packed Up: A Study in Random Close Packing

**Division:** International / None

**Category:** Intermediate

**Region:** Strait

**City:** Antigonish, NS

**School:** Dr. John Hugh Gillis Regional School

**Abstract:** This project is a series of experiments to model the random close-packing (RCP) of atoms in solids in both two and three dimensions. These experiments were designed to measure two specific properties of randomly close-packed structures: the packing efficiency, defined as the amount of space actually filled by the atoms, and the average coordination number.

#### Biography

I am a grade ten student from Antigonish. Along with science I have many interests, including music, specifically piano performance, curling, and history. I am currently working towards obtaining my Associate of the Royal Conservatory of Toronto in piano performance and intend to have a career in music. Last year I was a national finalist in the Canadian Music Competition in Quebec, and will be travelling there in June to compete this year for the second time. I have always lived in the country and enjoy gardening and love animals. I also love to travel and will actually be going to Italy this summer with my family to visit relatives.

#### Awards

#### Value

The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
Bronze Medal - Physical & Mathematical Sciences - Intermediate Sponsor: Encana Corporation	\$300
Total	\$1 300