

CWSF 2007 - Truro, Nova Scotia



Matt Shwed

Cosmic Radiation

Division: International / None

Category: Intermediate

Region: Simcoe County

City: Barrie, ON

School: Bear Creek S.S.

Abstract: This experiment studied the correlation between cosmic rays from galactic sources (gamma ray bursts, supernovae and the sun) and atmospheric pressure on Earth. Cosmic rays were measured and analyzed using a sodium iodide detector and multi-channel analyzer. A strong correlation was found showing that higher atmospheric pressures resulted in lower levels of cosmic rays and low atmospheric pressure resulting in higher levels of cosmic rays.

Biography

My name is Matt Shwed, and I am a 16 year old grade 10 student at Bear Creek Secondary School in Barrie, Ontario. I have a wide variety of interests, ranging from sports, the arts and of course science. I love to play golf, tennis and volleyball, and also enjoy jogging and snowboarding in the winter. I also participate in drama, and have played the lead role in the play The Music Man. I have also helped direct a production at my previous elementary school. I was the valedictorian for my grade 8 graduation, and won the General Proficiency Award for exceptional results. I also won the highest mark in grade 9 for business and geography. My greatest interest, though, is physics. I am fascinated by the diverse laws and theories about our universe, as well as the tiny world of atoms and subatomic particles. In the future, I would like to study quantum physics and possibly theoretical physics. I am thrilled to have the opportunity to participate in such a worthwhile event.