

CWSF 2010 - Peterborough, Ontario



Michael Peters

The Actuator

Division: International

Category: Senior

Region: Vancouver Island

City: Victoria, BC

School: Glenlyon Norfolk School

Abstract: The purpose of my invention (the Actuator) is to create a practical device that passively exercises the lower legs to help prevent blood clots, Deep Vein Thrombosis (DVT), in wheelchair-bound individuals of any age, and to improve range of motion of the lower legs and speed the recovery of their leg action. It was tested using compromised and healthy individuals, and utilizes proven physiotherapeutic techniques.

Biography

My name is Michael Peters. I thoroughly enjoy summertime, often spending many days up at cottages waterskiing, sailing, and swimming, or spending some good quality bonding time with my road bike. I also enjoy music, playing in various jazz, R&B, and classical ensembles and solo performance. I have been fortunate enough to be involved in science fairs for the better part of the last 7 years. My involvement in science fairs have taken me all over the world, including Atlanta, Nova Scotia, Taipei, Toronto, and now Peterborough. From these I have received many awards and scholarships, including the NCIIA scholarship, and winning second place in engineering at the Taiwan International Science Fair. I must say that science fairs have been the single largest determining factor in directing my future career path, and representing Canada multiple times on the world stage has changed my perspective on life forever. I feel incredibly honored to have had such amazing experiences in science fairs, and I would hope in the future that I would be able to encourage support for science fairs, and volunteer so that I could help other youth have the same life changing experiences I have had.

Awards

Value

The Manning Innovation Achievement Award Sponsor: Ernest C. Manning Awards Foundation	\$500
Total	\$500