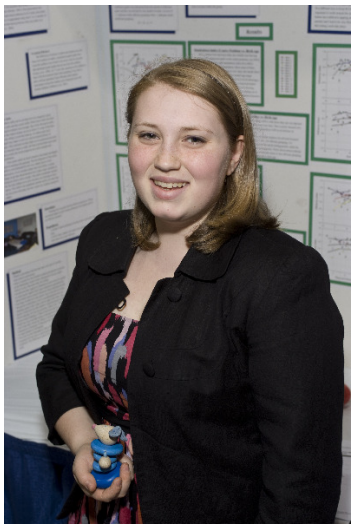
CWSF 2010 - Peterborough, Ontario



Hannah Bild-Enkin

Efficiency in Infancy: A Four Month Longitudinal Study In Infant Handedness

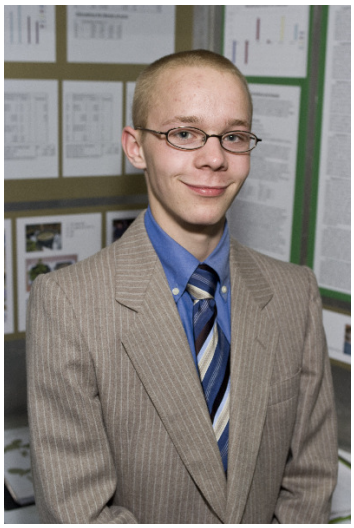
Division: Health Sciences
Category: Senior
Region: Vancouver Island
City: Victoria, BC
School: Esquimalt Community School

Abstract: Infant handedness and grasping efficiency were examined in 14 babies over 4 months between 21 and 64 weeks of age. Infants grasped for a toy placed in the centre, the left and the right. Handedness did not manifest itself in this age range but the infants were more efficient when they were more developmentally advanced. Understanding motor-development could aid assessment and treatment of developmental delays.

Biography

Hannah is, in every aspect of her life, a performer. Be it figure skating, singing or science fair, she goes out and gives her all to the task at hand. She enjoys being a vocalist in the Esquimalt High School jazz program and is working on her grade 6 voice exam. Science fair has provided an opportunity to explore aspects of science that are not covered in class. This is Hannah's third CWSF experience and she hopes it will be as exciting as the last.

CWSF 2010 - Peterborough, Ontario



Oliver Jourmel

Evaluating the Effects of the Retention Properties of Charcoal on Plant Growth

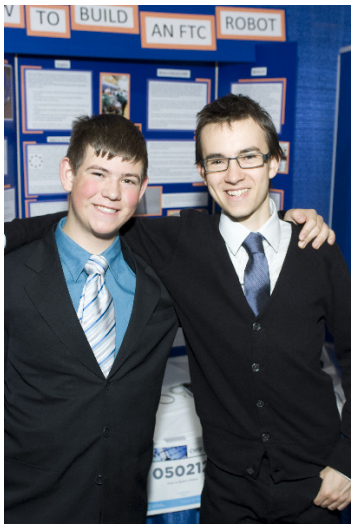
Division: Life Sciences
Category: Senior
Region: Vancouver Island
City: Duncan, BC
School: Frances Kelsey Secondary

Abstract: Last year's project was Soil Amending Properties of Charcoal. This year I tested these properties on vegetative growth in different environments. How would charcoal affect the growth of radishes in dry, wet, nutrient poor, and nutrient rich conditions? I designed a series of five experiments to test these conditions and quantified the modifying factor of charcoal in relation to water and nutrient retention.

Biography
Oliver Jourmel is a grade 10 student at Frances Kelsey Secondary School on Vancouver Island, BC. He plays violin and piano, and sings in a choir, and enjoys soccer, fencing, juggling, and riding his bike. He is interested in politics, drama, debating and enjoys his self-paced school. He hopes to study law, science and music at university, to pursue a career in teaching and politics. He has done lots of Science Fair projects over the years, winning his division several times and is very happy to be on the BC team at the Canada-Wide Fair for the second time!

Awards	Value
Dalhousie University Faculty of Science Entrance Scholarship Senior Silver Medallist - $2000 Entrance Scholarship Sponsor: Dalhousie University	$2 000
UBC Science (Vancouver) Entrance Award Senior Silver Medallist - $2000 Entrance Scholarship Sponsor: The University of British Columbia (Vancouver)	$2 000
University of Ottawa Entrance Scholarship Senior Silver Medallist - $3000 Entrance Scholarship Sponsor: University of Ottawa	$3 000
The University of Western Ontario Scholarship Silver Medallist - $2000 Entrance Scholarship Sponsor: University of Western Ontario	$2 000
Silver Medal - Life Sciences - Senior Sponsor: Pfizer Canada	$700
Total	$9 700

CWSF 2010 - Peterborough, Ontario



Devin Campbell, Sebastian Sutter

How to Build a Robot

Division: Engineering
Category: Intermediate
Region: Vancouver Island
City: Victoria, BC
School: Esquimalt Community School
Abstract: We built a First Tech Challenge robot to compete in tournaments. Using remote control, our robot had to collect, store, and shoot balls into three different height goals. We would need to design and build our robot using only Tetrix parts and optional amounts of aluminum, plastics, and PVC piping. We could use Tetrix DC motors, Tetrix servo motors, and LEGO servo motors.

Biographies

Devin - My name is Devin Campbell. This is my first year at the CWSF, and I have only participated in the RSF once before. My hobbies include outdoor sports and robotics. Such as rock climbing, wilderness camping, and i am planning to take Scuba Diving lessons. I am also on a team that participates in the world wide FTC challenge. In this my team will build robots that can compete in a yearly challenge that they organize. When I am not doing any of these things, I spend my time with the 89 Pacific Air Cadet Squadron. Currently I am a the only Tenor Saxophone player in their band and I also am one of their drill team members. This summer, I am enrolle...

Sebastian - Hi, I' m Sebastian Sutter, I live in Victoria and I' m 15 years old. My other interests besides working on the robot are photography (sold a picture at an art show), cruising the streets on my longboard, cycling and, in the winter, snowboarding.

CWSF 2010 - Peterborough, Ontario

Michael Peters

The Actuator

Division: Health Sciences
Category: Senior
Region: Vancouver Island
City: Victoria, BC
School: Glenlyon Norfolk School

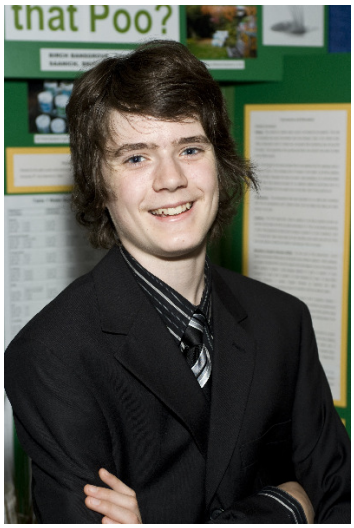
Abstract: The purpose of my invention (the Actuator) is to create a practical device that passively exercises the lower legs to help prevent blood clots, Deep Vein Thrombosis (DVT), in wheelchair-bound individuals of any age, and to improve range of motion of the lower legs and speed the recovery of 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

CWSF 2010 - Peterborough, Ontario



Birch Bansgrove

What to do with all that Poo?

Division: Earth & Environmental Sciences
Category: Junior
Region: Vancouver Island
City: Saanich, BC
School: Cedar Hill Jr Secondary

Abstract: My project assessed if a small artificial wetland could treat waste water. I built three small wetlands, one with just water, one with water and duckweed, and one with water, duckweed, and emergent plants. I then took some tests and compared the three wetlands to each other. I found out if the wetlands could treat waste water and what plants are best for the job.

Biography

I am 13, and one of the smallest of my group of friends. I love hockey and the Vancouver Canucks but can't stand the Anaheim Ducks. I am a fan of canoeing and camping trips and have been many places and many different country's in the world and am used to adapting to different environments. I have a LOT of pets and love hiking, bush waking and fishing. I like animals and am not afraid to get my hands dirty. Am i social and usually very rule abiding. I love almost every and any type of chocolate but am not a fan of peppers or mushrooms.