

ESPC 2007 - Truro (Nouvelle-Écosse)



Zachary Alexander Elgood

Isotopic Fingerprinting of Human-Emitted Methane

Division: Internationale / Aucun

Catégorie: Junior

Région: Waterloo-Wellington

Ville: New Hamburg, ON

École: Courtland Avenue Senior P.S.

Sommaire: This project examines the concentration and isotope signature of human-emitted methane. Breath and colonic samples were analyzed using gas chromatography and isotope ratio mass spectrometry. Vegetarians produced the highest levels of methane. The methane ^{13}C values confirm that the samples collected were of biogenic origin.

Biographie

Zach Elgood, age 13, attends Grade 7 in a congregated enrichment/gifted class at Courtland Public School in Kitchener, Ontario. He is on the school wrestling team and plays clarinet in the school band. Travel is a special love of his and he was fortunate to have been chosen by Children's International Summer Villages (C.I.S.V.) to spend a summer in Italy with 47 other 11-year olds from around the world. Reading, research, chess and karate have played important roles in his life for many years. His reading preferences range from fantasy to non-fiction books about magic and mythology. Zach is currently writing a Tolkien-like fantasy book series called the Amulets of Destruction. Because he enjoys nature, Zach particularly loves the spring and summer seasons. He likes hiking and exploring the world around him. He has won several chess and karate awards, as well as some writing and scholastic awards. His aspirations include attending a summer camp hosted by the Perimeter Institute for grade 11 students where only 50 students from around Canada are chosen. He hopes someday to become a professor of astro/theoretical physics to work and research with others at the Perimeter Institute.

Prix

Valeur

Bourse d'études de l'Université Western Ontario	1 000,00 \$
Médaille de bronze - Bourse de début d'études de 1 000 \$	
Commanditaire: Université Western Ontario	
Médaille de bronze - Sciences physiques et des mathématiques Junior	300,00 \$
Commanditaire: Encana Corporation	
Total	1 300,00 \$