

ESPC 2007 - Truro (Nouvelle-Écosse)



Llew Falla

CH₄ Optimization of BioWaste

Division: Biotechnologie / Technologie automobile

Catégorie: Junior

Région: Lambton County

Ville: Sarnia, ON

École: St. Anne E.S.

Sommaire: In this study, experiments were done with home designed equipment to determine the optimum conditions for generating methane gas from dairy cow manure by varying the temperature, time, and water dilution. Experiments were also done to investigate the effect that changes to the pH of the waste have on gas generation rate and the amount of gas produced.

Biographie

My name is Llew Falla and I reside in Sarnia, Ontario. I am a grade 8 student at St. Anne Elementary School. At school, I am involved in soccer, volleyball, hockey, and cross-country as well as the following clubs: robotics, chess and tech. In the Sarnia Lambton community I have volunteered with respite services with Community Living Sarnia, and I have volunteered as a goalie coach with lacrosse for the Sarnia Minor Athletic Association (SMAA). My hobbies and interests include reading adventure books and playing strategy games on the computer. I am a goalie for travel hockey and travel lacrosse as well as a goalie for SMAA soccer. My awards and achievements are in the sports arena, notably lacrosse and hockey, as well in the scientific field. This is my second trip to the Canada Wide Science Fair. My project "CH₄ Optimization of Bio-Waste" is an investigation of the optimum conditions for generating methane gas from dairy cow manure. I am a hard-working young man who aspires in a scientific or engineering career.

Prix

Valeur

Bourse d'études de l'Université Western Ontario	1 500,00 \$
Médaille d'argent - Bourse de début d'études de 1 500 \$	
Commanditaire: Université Western Ontario	
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 - Technologie automobile - Junior	300,00 \$
Commanditaire: AUTO21	
Médaille d'argent - Biotechnologie et les sciences pharmaceutiques Junior	700,00 \$
Commanditaire: Fondation pour la recherche en santé de Rx&D	
Total	3 500,00 \$

