Ben Underwood

Green Eggs and Beef

Division: Engineering & Computing Sciences / Environmental Innovation
Category: Junior
Region: Avon Maitland-Huron Perth
City: Wingham, ON
School: Turnberry P.S.

Abstract: This project studied the production of methane in anaerobic digesters, in an attempt to create a "green" chicken barn. Different organic substances were used in combination to test the production of methane. A spreadsheet was used to determine if the project was financially viable. Alone, chicken manure wouldn't produce enough energy to operate the barn, but in combination with other organic substances, it was feasible.

Biography
Ben Underwood is 13 years old and a grade 8 student at Turnberry Central Public School. He lives on a farm just outside Wingham, Ontario with his parents, two older brothers, and one younger sister. Ben has been a member of many school sports teams including soccer, basketball, and volleyball and is this year's student council President. In his spare time he plays hockey and lacrosse; and enjoys helping his Dad work on the farm. Ben is excited to be making his second trip to CWSF. Last year Ben's project Cultivating Cultivators captured the Gold Medal in the Earth and Environmental division and the Junior Platinum award. This year at the Regional Science Fair, Ben was awarded the Best in Fair for his project Green Eggs and Beef. Ben has enjoyed working with the Youth Science Foundation this past year to promote science. He will be attending the Premeire's Innovation Awards Gala in Toronto. Ben's future plans include attending high school and university with aspirations of becoming a Doctor, Scientist or engineer.

Awards	Value
Agriculture and Agri-Food Award - Junior Sponsor: Youth Science Foundation Canada	$500
The University of Western Ontario Scholarship Bronze Medallist - $1000 Entrance Scholarship Sponsor: University of Western Ontario	$1 000
Bronze Medal - Environmental Innovation - Junior Sponsor: EnviroExpo, Presented by VIA Rail Canada	$300
Total	$1 800