

CWSF 2010 - Peterborough, Ontario



Sara Rehman, Humera Rehman

Mediator-less Microbial Fuel Cells

Division: Earth & Environmental Sciences

Category: Senior

Region: York

City: Markham, ON, Markham , ON

School: Markville S.S.

Abstract: Mediator-less Microbial Fuel Cells are currently being researched as potential energy sources. Using waste, these fuel cells are able to produce energy and water. Waste is currently an undepletable byproduct that takes energy to process. The purpose of this study is to determine if MFC technology could allow waste to produce enough energy to make it a feasible resource in waste water treatment.

Biographies

Sara - My name is Sara Rehman, and I am an 18 year old student attending Markville Secondary School. Skating is one of my favorite hobbies and I also enjoy writing. I write for the school newspaper and am graduating with honors. I plan on going to University of Toronto in September. The field that interests me most is engineering, specifically mechanical and materials engineering. This was my first time participating in a science fair. I am also the recipient of the \$1000 University of Ottawa Scholarship, which I received at the York Region Science Fair this year.

Humera - I am currently a student at Markville Secondary School where I write for the school newspaper. Next fall, I hope to be studying either health sciences or engineering. This is our first year participating in the science fair, although my partner, Sara Rehman, and I have been researching MFC's for more than a year and a half.

Awards

Value

Canadian Stockholm Junior Water Prize Sponsor: Canadian WEF Member Associations, the Canadian Water and Wastewater Association, and Jacobs	\$2 000
Total	\$2 000