



## CWSF 2012 - Charlottetown, Prince Edward Island



## Biography

Moaaz comes from Regina, Saskatchewan and attends Regina Huda School. He is currently in grade twelve, and is highly active at his school. He has interests in math, science, and computer programming. Moaaz has been participating in science fairs, debate clubs, and several other extracurricular activities. He enjoys reading and writing, and currently serves as the president of his school's Student Leadership Council. Next fall, Moaaz will be attending the University of Saskatchewan to purse a career in medicine.

## Moaaz Rashad

Optimizing Environmental Factors in C. reinhardtii Based Hydrogen Bioreactors

Challenge: Energy		
Category:	Senior	
Region:	Regina	
City:	Regina, SK	
School:	Regina Huda School	
Abstract:	This project investigates the effects of key environmental factors on the hydrogen production in Chlamydomonas reinhardtii bioreactors. The project outcome includes the development and demonstration of experimental methods for determining the optimum temperature and duration of lighting cycles during the anaerobic respiration phase, and for maintaining the health of the algae through controlling the level of contamination caused by bacterial growth in the reactors.	

Awards	Value
Excellence Award - Senior - Silver Medal	\$700
Sponsor: Youth Science Canada	
Dalhousie University Faculty of Science Entrance Scholarship	\$2 500
Senior Silver Medallist - \$2500 Entrance Scholarship	
Sponsor: Dalhousie University, Faculty of Science	
UBC Science (Vancouver) Entrance Award	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: The University of British Columbia (Vancouver)	
University of Ottawa Entrance Scholarship	\$2 000
Senior Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: University of Ottawa	
Western University Scholarship	\$2 000
Silver Medallist - \$2000 Entrance Scholarship	
Sponsor: Western University	
Total	\$9 200



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