

# CWSF 2009 - Winnipeg, Manitoba



## Ghufuran Siddiqui

### BioHydrogen

**Division:** Engineering & Computing Sciences / Environmental Innovation

**Category:** Senior

**Region:** Lambton County

**City:** Sarnia, ON

**School:** Northern C.I. & V.S.

**Abstract:** This project explores the hydrogen producing abilities of *Chlamydomonas reinhardtii* using copper addition and sulphur depletion. The different concentrations of copper the algae were put into were 0.4ppm, 0.8ppm, 1ppm, 1.6ppm and 2ppm. The second part is to deprive them of sulphur then compare the two methods. It was found that the most hydrogen is produced from the sulphur deficient method.

### Biography

My name is Ghufuran Siddiqui. I am a grade 11 student at N.C.I.V.S in Sarnia, Ontario. Some sports I enjoy are wrestling, soccer and tennis. I also have an interest in computers and technology. I take part in many extra-curricular activities such as the Multicultural Awareness Club and Science Club at my school and Junior Achievement. My favourite subjects are science, math and business. I like to challenge myself by competing in the science and math competitions. Of these competitions I enjoy science fair and the Waterloo math contests. I also volunteer at my local Library. I hope to pursue a career in Chartered Accountancy or Medicine. I would like to pursue my studies at Waterloo in the Biotech/CA program.

### Awards

### Value

Renewable Energy Award - Senior Sponsor: Ontario Power Generation	\$1 000
Honourable Mention - Earth & Environmental Science - Senior Sponsor: Petro-Canada	\$100
<b>Total</b>	<b>\$1 100</b>