

CWSF 2016 - Montreal, Quebec



Teresa Deng

Algae to Biofuel

Challenge: Energy

Category: Senior

Region: Carlton Trail

City: Watson, SK

School: Watson High School

Abstract: Concerns over the country's energy dependence on nonrenewable fossil fuels is increasing with elevated scarcity and negative environmental impacts. Algae is an abundant, fast-growing, oil-rich, resilient organism that can prosper in many extreme circumstances. I hypothesized that I could grow and harvest algae in a lab, then use a chemical extraction to obtain the natural lipid oils which could then be refined into fuel.

Biography

I am Teresa Deng, a grade 11 student from Watson school. I was born and raised in China, where I lived until the fall of 2014. I moved to Canada and settled in Watson, Saskatchewan. My idea came when I was on Christmas holidays in China, excited to return to school and get researching the project.

Awards

Value

Excellence Award - Senior - Bronze Medal Sponsor: Youth Science Canada	
University of Ottawa Entrance Scholarship Senior Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Ottawa	\$1 000
Western University Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: Western University	\$1 000
Total	\$2 000