

## CWSF 2014 - Windsor, Ontario



### Dayne Gawley

#### Gas Eaters

**Challenge:** Environment

**Category:** Intermediate

**Region:** Regina

**City:** Regina, SK

**School:** Winston Knoll Collegiate

**Abstract:** Native bacteria tested from Crooked Lake, Saskatchewan, can biodegrade hydrocarbons. My hypothesis predicted that 5% diesel solution would show the greatest amount of degradation and was supported as a sample in 5% solution was the only liquid culture to show visible degradation, and all water agar plates showed growth. I believe the 5% solution offered the most nutrients for bacteria to extract.

#### Biography

My name is Dayne Gawley. I am 15 years old. I attend Winston Knoll Collegiate and am currently in grade 10. I was born in Moose Jaw, Saskatchewan where I attended King George School until my family moved to Regina, Saskatchewan. I have played lacrosse for 10 years and have referred for the past 3 years. In my spare time I like to play games and spend time at my families lake house. After high school I plan to become an engineer with a goal of working for the Canadian Space Agency. I was granted the SOEEA award this year at the Regina Regional Science Fair. This is my second year attending CWSF. The advice I would give to other students is to have curiosity in the topic while researching the scientific area to acquire a broad knowledge base of the intended experiment. It is important to be capable of answering all questions asked to the best of your ability.

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