

# CWSF 2011 - Toronto, Ontario



## Arjun Nair

### Viability of Carbon Capture through Algae

**Challenge:** Energy

**Category:** Intermediate

**Region:** Calgary Youth

**City:** Calgary, AB

**School:** Webber Academy

**Abstract:** Greenhouse gases particularly CO<sub>2</sub> emissions, are on the rise; the objective of my project is to assess environmental and economical viability of the current carbon capture technologies like injecting CO<sub>2</sub> for Enhanced Oil Recovery. The project also investigates an economically-feasible alternate system within Canadian weather conditions that uses micro-algae to consume CO<sub>2</sub>, with an overall goal of clarifying the path forward, concerning carbon capture technologies.

#### Biography

Hi, my name is Arjun and I'm a grade nine student attending my first year at the Canada Wide Science Fair. I enjoy science and have participated in science fairs since grade five, winning either gold or silver medal at school and regional levels. I am excited to be at this event and be exposed to many facets of science and technology. I plan on taking my interest in science further to my university studies. Besides science, I love sports and athletics especially soccer, basketball, and cross-country running and is a part of both community club and school level teams. I also love to debate and my partner and I won a gold medal in Provincials and I came second best speaker! Between science, sports and debate time sure goes by!

#### Awards

#### Value

Excellence Award - Intermediate - Bronze Medal Sponsor: Youth Science Canada	\$300
The University of Western Ontario Scholarship Bronze Medallist - \$1000 Entrance Scholarship Sponsor: University of Western Ontario	\$1 000
<b>Total</b>	<b>\$1 300</b>