

## CWSF 2014 - Windsor, Ontario



### Aidan Aird

#### The Turbo-Eco Cookstove Plus: Improving Living Conditions in Developing Nations

**Challenge:** Innovation

**Category:** Intermediate

**Region:** York

**City:** Markham, ON

**School:** Brother André Catholic H.S.

**Abstract:** The Turbo-Eco Cookstove Plus is a highly efficient, modular, multifunctional stove; that cooks food, purifies water and charges small electronic devices such as a mobile phone or LED light, all at the same time. The prime motivator for designing this high efficiency stove which uses less fuel and emits less harmful emissions than traditional fires or stoves was to improve living conditions in developing countries.

#### Biography

I'm 14 and attend Saint Brother Andre C.H.S. in the Pre-AP Program with a 97% GPA. I'm on the SBA Robotics, Reach for the Top, and Tennis Teams. I also play trumpet and guitar. I'm very passionate about science, technology, engineering and math. In fact, I started an organization called [www.developinginnovations.org](http://www.developinginnovations.org) that inspires, celebrates, and promotes S.T.E.M. students. My experiences at the past two CWSF's have greatly impacted my life and my vision is that of a social entrepreneur. This calling to help others through developing innovations lead me to design the Turbo-Eco Cookstove Plus. This modular stove has the capabilities to charge small electrical devices by using a thermoelectric generator, purifies water, and reduces emissions through complete combustion. When I'm not working on my innovations I can be found at the University of Toronto Science and Engineering Program. I am most proud of the 11 of 14 professional SolidWorks courses I have taken this past year and looking forward to completing the CSWP Exam and becoming the youngest certified SolidWorks Professional in the world. I feel that today's S.T.E.M. students will have the greatest positive impact on the future of the world and its people.

#### Awards

#### Value

Engineering Innovation Award - Intermediate Sponsor: The Engineering Institute of Canada	\$750
Excellence Award - Intermediate - Gold Medal Sponsor: Youth Science Canada	\$700
Western University Scholarship Gold Medallist - \$4000 Entrance Scholarship Sponsor: Western University	\$4 000
<b>Total</b>	<b>\$5 450</b>