

## ESPC 2015 - Fredericton (Nouveau-Brunswick)



### Ted Stuart

#### Biochar Filtration of Phosphorous

**Défi:** Environnement

**Catégorie:** Intermédiaire

**Région:** Simcoe County

**Ville:** Ravenna, ON

**École:** Pretty River Academy

**Sommaire:** A process was developed to convert wood into fertilizer, by experimentally filtering and storing residual phosphorus from a contaminated water source. A key component of this process was the production substance from wood known as "biochar," through pyrolysis. It was experimentally determined that implementing a radial flow filter (containing biochar as media) would be a sustainable, cost-effective solution to preventing eutrophication.

#### Biographie

Ted is a 16 year old grade 10 Student at Pretty River Academy in Collingwood Ontario. This year Ted was elected Vice President of his student council, and is a member of a local concert band. Ted is an avid outdoors-man and enjoys fishing, hunting, and hiking whenever possible. Rugby is another passion, as Ted has been a 10 year member (longest serving member) of the Georgian Bay Titans Rugby Club. Ted has a drive to learn and discover new things, and when he can he spends his free time researching how things work or about historic events.

#### Prix

#### Valeur

Prix d'excellence - Intermédiaire - Médaille d'argent Commanditaire: Sciences jeunesse Canada	
Bourse d'études de Western University Médaille d'argent - Bourse d'admission de 2 000 \$ Commanditaire: Université Western	2 000,00 \$
<b>Total</b>	<b>2 000,00 \$</b>