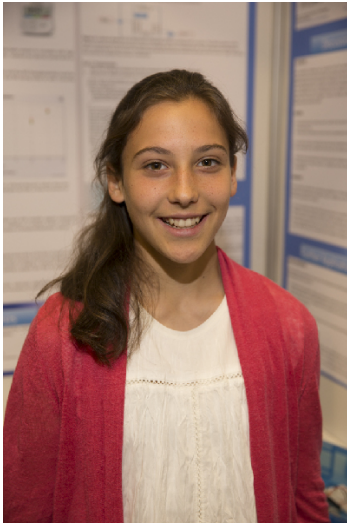


## ESPC 2016 - Montreal (Québec)



### Imogen Lawford-Wickham

#### T1D Mouthguard

**Défi:** Innovation

**Catégorie:** Junior

**Région:** Frontenac, Lennox & Addington

**Ville:** Kingston, ON

**École:** Calvin Park P.S.

**Sommaire:** Type 1 diabetics have to monitor and treat blood glucose levels at night before dangerous health effects occur. Current devices fail to effectively wake patients. An innovative mouthguard composed of a microprocessor, vibration motor and sensor would help diabetics by continuously monitoring bg and waking the patient. This prototype of a medical device would limit the harmful impacts of diabetes on the lives of patients.

#### Biographie

I am 12 years old and if i'm not doing school work, I am playing sports. I have type one diabetes and have always been looking for a way to make living with diabetes easier. This is my first science fair and it was the perfect chance to make an innovation for diabetes. I did a lot of engineering and programming in my project and became very interested in programming. I plan to continue coding in the future and keep trying to help solve problems related to diabetes.

| Prix   | Valeur             |
|--|--------------------|
| Prix S.M. Blair Family Foundation<br>Commanditaire: S.M. Blair Family Foundation   | 500,00 \$          |
| Prix d'excellence - Junior - Médaille d'argent<br>Commanditaire: Sciences jeunesse Canada  |                    |
| Bourse d'études de Western University<br>Médaille d'argent - Bourse d'admission de 2 000 \$<br>Commanditaire: Université Western | 2 000,00 \$        |
| <b>Total</b>   | <b>2 500,00 \$</b> |