

## CWSF 2018 - Ottawa, Ontario



### Jakob Krausz, Rj Masse

#### Save the Heat: Electric Engine Heat Recovery

**Challenge:** Energy

**Category:** Junior

**Region:** Avon Maitland-Huron Perth

**City:** St Marys , ON, St. Marys, ON

**School:** Holy Name of Mary R.C.S.

**Abstract:** The purpose of this innovation is to accelerate the transition to sustainable transportation by increasing the battery range of all electric or hybrid vehicles. This occurs by installing thermoelectric generators on vehicular components that radiate vast amounts heat such as the battery or the motor. By recovering waste engine heat, energy consumption can be maximized, extending the range of all battery operated vehicles.

#### Biographies

Jakob - Jakob Krausz is a grade eight student at Holy Name of Mary Elementary School. He enjoys various activities including Martial Arts, Theatrical Arts, reading, writing and presumably so: Science-related activities. Jakob strives to understand how the world works and to make continual improvements on preexisting systems and mechanisms. He is particularly interested in Physics as well as Automotive Science and aims to establish a future automotive firm of his own. He plans to achieve a Masters Degree in mechanical engineering and an Economics Minor Degree to aid him with his future company. Jakob, in addition to his colleague Richard formulated a

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Rj - R.J. Masse is a grade 8 student at Holy Name of Mary School in St. Marys Ontario. He enjoys playing hockey, board games, mountain biking and snowboarding. His favourite subjects are math and science. The inspiration came from a science class about . If there is a further investigation done he would have the TEGs on the RC car while in motion.

Youth Science Canada  
PO Box 297  
Pickering ON L1V 2R4  
[www.youthscience.ca](http://www.youthscience.ca) / [info@youthscience.ca](mailto:info@youthscience.ca)  
416-341-0040