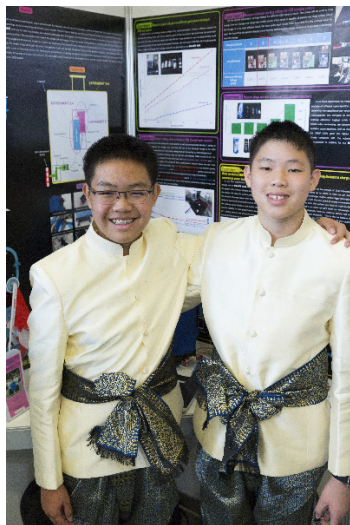


CWSF 2018 - Ottawa, Ontario



Thipok Bovornratanaraks, Teepop Sutthipisal

Energy Conversion System for Traveller (ECoST)

Challenge: International

Category: Junior

Region: Thailand

City: Bangkok,

School:

Abstract: Our innovation is composed of the energy harvesting unit and the energy storage unit. The harvesting unit was designed to convert kinetic energy from rolling wheels into electricity. The electricity is then stored in the energy storage unit. We replace the conventional Lithium battery with the most recent supercapacitor technology which exploited no chemical process. We have already been assigned the patent submission number.

Biographies

Thipok - My name is Thipok Bovornratanaraks. I'm a grade 8 student at Chulalongkorn University Demonstration Secondary School, Bangkok, Thailand. My favourite subject is Science and I'm interested in Science projects and researches since I was grade 6. I want to be a physician after graduating. I have been waiting and dreaming to attend this Science fair for years, and finally, I was given an opportunity by YGA2017 to do so. I started doing my science project to solve my own problem. It all started with a single problem; "How can we charge our electronic devices during our travelling?". I came up with an idea and started working on the Energy ...

Teepop - My name is Teepop Sutthipisal. Now I am studying grade 8 at Chulalongkorn University Demonstration Secondary School. My hobbies are watching movies and reading comics but I am also interested in innovation. This project was first developed when I and my friend were travelling by plane and our electronic devices ran out of batteries. We thought that if we could produce electricity while we were traveling and replenish our electronic devices to be used would be a great idea. So we innovated ECoST to solve this problem. For the further investigations, we want to increase the efficiency of our system by developing ECoST to generate more electricity...

Awards

Value

Gold Medal - International	
Sponsor: Youth Science Canada	
Total	\$0