

## CWSF 2008 - Ottawa, Ontario



### Yu-Sheng Hsieh, Kai-Chung Hsiao

#### Feasibility Evaluation on Various Organic Acids Applied in Fuel Cells

**Division:** International / None

**Category:** Senior

**Region:** Taiwan, R.O.C.

**City:** Taipei,

**School:**

**Abstract:** The principle objective of this study is aimed at using a three-electrode cell to examine the suitability of various organic acids towards producing clean energy via electrooxidation on a series of Pt-based catalysts, to replace methanol as a fuel. The results showed that a fuel cell using formic acid catalyzed with PtRuTi/C slurry would provide efficient operation.

#### Biographies

**Yu-Sheng** - I am Yu-Sheng Hsieh, coming from Taiwan. I have four members in my family. I am in the eleventh grades in Li-Shan Senior High School. My favorite subject is science, so I take the experiment in chemistry with my friend. We often encounter problems difficulty during the experiment, but we all do our best to solve it. Today, I am glad to take part in the Canada Wide Science Fair. I hope we can make new friends and get more information in Ottawa.

**Kai-Chung** - Hello! I'm Kai-Chung Hsiao, a 17-year-old high school student. I study in Li-Shan Senior High School in Taipei Taiwan. My favorite subjects are chemistry and physics. I enjoy my science project a lot and have learned a lot from it. I'm very excited about taking part in the CWSF this year. I hope I can make some friends and learn new knowledge in Ottawa.

#### Awards

#### Value

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