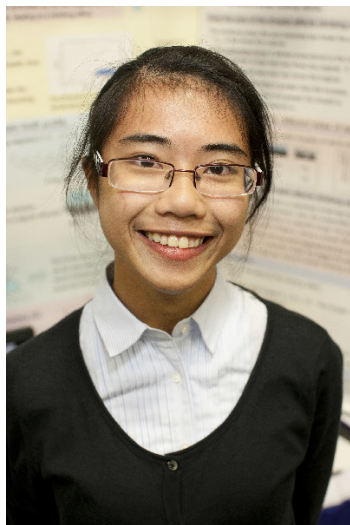


## CWSF 2011 - Toronto, Ontario



### Fang-Yu Chang

#### Investigation of water droplets climbing up hot saw blades

**Challenge:** International

**Category:** Junior

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

**City:** Taichung City,

**School:**

**Abstract:** Water droplet climbing up stacked saw blades with asymmetric saw tooth profile has been investigated. The climbing occurred at temperature about 400° with the incline up angle depending on the droplet's size. The driving forces are associated with the vapor pressure and recoiled momentum due to water evaporation.

#### Biography

My name is Chang, Fang-yum. I'm from Taiwan, and I'm studying in the eighth grade of Da-ya junior high school. My hobbies are reading and doing experiments. I'll keep doing experiments in the future. And I am really glad and honored to join this year's science fair.

#### Awards

#### Value

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