

Intel International Science and Engineering Fair

A program of Society for Science and the Public



Improving Lives through Science

A science enthusiast from the start, Jacqueline Hung spent her years at Taipei First Girls' Senior High School, in Taiwan, working on research projects for science fairs every chance she got, and dreaming that one day she might study engineering at the prestigious Massachusetts Institute of Technology (MIT).

Driven by a desire to improve lives, Jacqueline's science projects were focused on finding solutions to real-world problems confronting people. To address food shortages in Africa, she conducted research on plants that could thrive in salty soil. To address energy needs, she examined ways to create generators using thermal energy.

It wasn't long before Maw-Kuen Wu, Director of the Institute of Physics at Academic Sinica took note of her skills and dedication, and invited Jacqueline to join his research team. Working with classmate Chi-Chieh Lin, Jacqueline dove into a chemistry project on the super conductivity of Fe-Se nanocrystals. The duo won prizes not only in Taiwan, but also the First Award in the Team Projects division at the 2010 Intel International Science and Engineering Fair (Intel ISEF).

"Seeing what other students around the world were doing was an inspiration for me to find ways I can use science to improve the quality of life for others," she says of her time at ISEF. In fact, she was so motivated she donated her Intel ISEF prize of USD 3,000 to her high school to enable other students to participate in science fairs.

Following Intel ISEF, Jacqueline won a scholarship to MIT, where she now studies electrical engineering. She also has a new goal: Becoming the CEO of a multinational technology company.

