

NATIONAL TAIPEI UNIVERSITY OF TECHNOLOGY

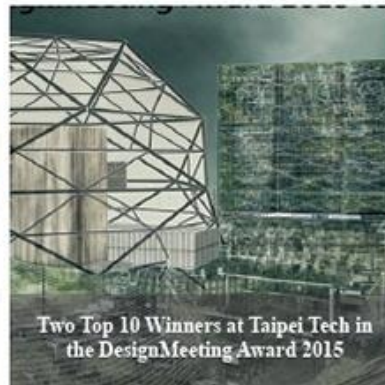
TAIPEI TECH POST



Daikin Donates 30 Million to Establish Green Environment Control Testing Center at Taipei Tech



Taipei Tech Student Wins Gold Medal in the 43rd World Skills Competition



Two Top 10 Winners at Taipei Tech in the Design Meeting Award 2015



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The heat and the humidity in the summertime make it almost impossible to live without an air-conditioner. The frequent use of air conditioning system, however, increases ozone depletion and global warming. In order to solve these problems, Ho Tai Company, the agent of Daikin Company in Taiwan, donated 30 million NTD to establish the Green Environment Control Testing Center that aimed to improve air conditioning techniques by increasing energy effectivity and decreasing damages to our planet.

Yang-Cheng Shih, professor from the Department of Energy and Refrigerating Air-Conditioning Engineering, noted that although nowadays we could reduce ozone depletion caused by refrigerant technology, greenhouse gas was still a thorny issue. In the future, raising efficiency and staying eco-friendly at the same time would be the key focus.

Dr. Leehter Yao, president of Taipei Tech, noted that Taipei Tech established the first Department of Energy and Refrigerating Air-Conditioning Engineering in Taiwan. By building the Green Environment Control Testing Center, it was hoped that it could provide an experimental field and test reports for air-conditioning manufacturers. In addition to the above features, the Green Environment Control Testing Center could also increase students' competitiveness by providing practice opportunities.

Ho Tai Company representative noted that air-conditioning included not only cooling and heating, but also air interchanger, humidity control, electricity saving, air delivery, and noise reduction. They hoped that the Green Environment Control Testing Center would provide testing service needed by industry and cultivate talent within academia.



Email

oia@ntut.edu.tw

Editor in Chief

Shiao-Shing Chen
(Dean of International
Affairs)

Editorial Team

Penny Huang
Oby Wang
Helen Yang

Writer

Penny Huang





Taipei Tech Student Wins Gold Medal in the 43rd World Skills Competition

The World Skills Competition has been held every two years since 1950. It is the biggest skill competition on earth with over 60 participating countries and is known as the Olympics in Technical Skills.

The 43rd World Skills Competition was held in St. Paul, Brazil. Chinese Taipei team was awarded 5 gold medals, 7 silver medals, and 5 bronze medals. Chinese Taipei team's performance was ranked no.3 in 63 participating countries, being the best result for Taiwan representatives so far.

One of the gold medals was earned in the field of refrigerating and air conditioning. The winner, Pei-Hao Juan, is a student from the Department of Refrigerating Air-Conditioning Engineering at Taipei Tech.

Hong-Ping Cheng, Chair of the Department of Refrigerating Air-Conditioning Engineering at Taipei Tech, noted that Pei-Hao Juan decided to participate the World Skills Competition in his second year. In order to support Juan, Ching Song Zhuo, professor at Taipei Tech, and Chian Yu Lin, teacher at Taipei Municipal Nangang Vocational High School put together a training team to assist Juan in pursuing his dream.

Juan noted that it was common for him to be trained in an over 35 degree Celsius environment. During the 11-month training, Juan always told himself that one could only achieve more by devoting more. It was this hardworking spirit that helped Juan to become national champion and won the first gold medal in refrigerating and air conditioning field of the World Skills Competition for Taiwan.

Leehter Yao, president of Taipei Tech, noted that students should learn from Juan's experience and get out of their comfort zone to reach for the star. Dreams do come true when you carry through firmly to the end.

Two Top 10 Winners at Taipei Tech in the DesignMeeting Award 2015

The DesignMeeting Award is part of the DesignMeeting international symposium held on 26 – 30 October 2015 by the Ladislav Sutnar Faculty of Design and Art of the University of West Bohemia with the support of the European Capital of Culture Pilsen 2015.

The best ten works chosen by the jury would be presented at the DesignMeeting exhibition taking place during the symposium. Their authors were invited to take part in the DesignMeeting symposium with travel and accommodation expenses covered by the organizer. During the symposium, they would take part in an attractive program covering various fields and forms of design, meet renowned designers, choose from many accompanying events and enjoy Pilsen – the European Capital of Culture 2015.

Two works designed by Taipei Tech student were awarded TOP 10 in the DesignMeeting Award 2015 competition.

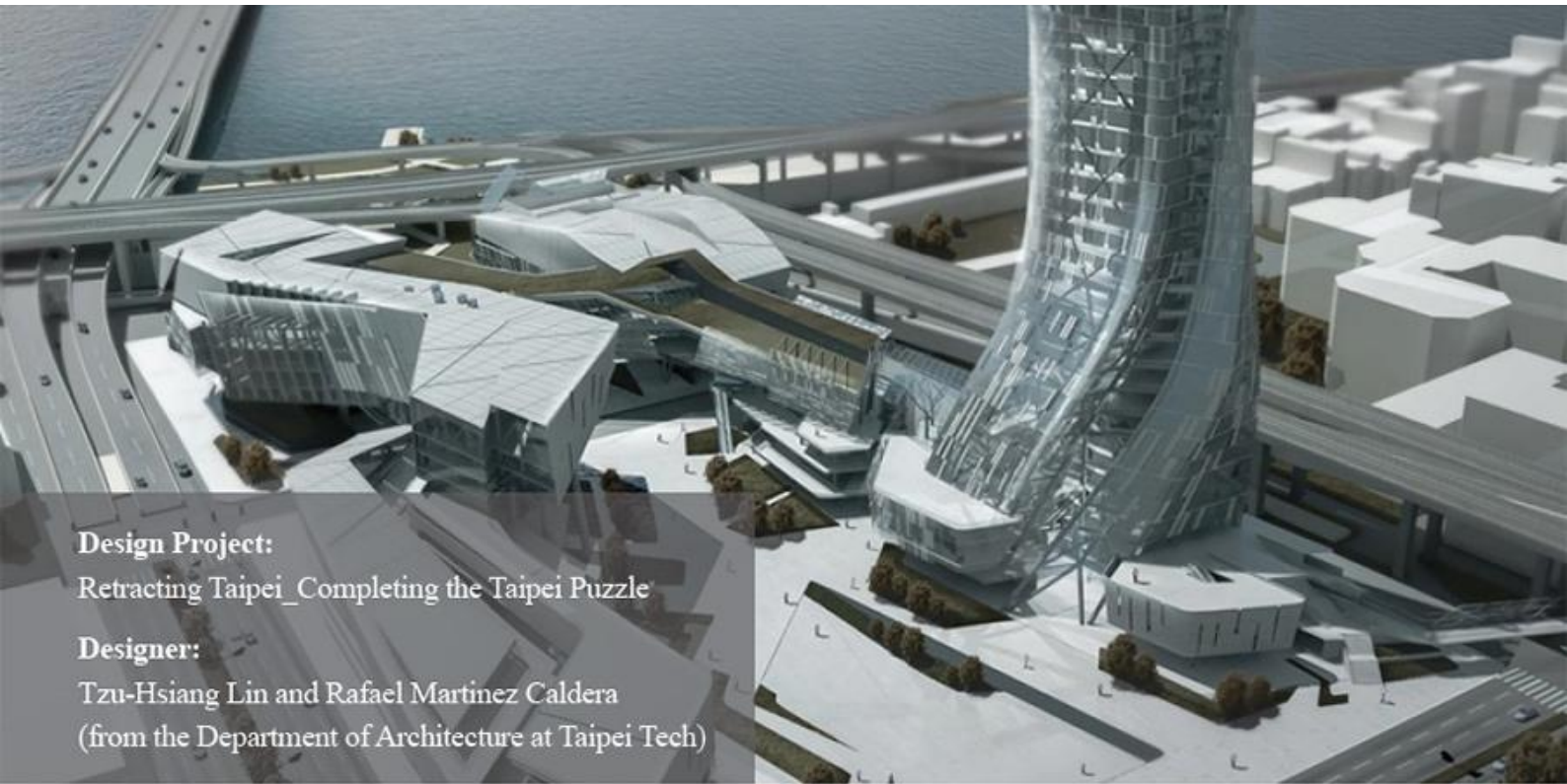


Design Project:
Post-disaster Autonomous Settlement

Designer:
Chun-Yung Wang
(from the Department of Architecture at Taipei Tech)

Project Brief:

After the disaster, urban population plummets to its lowest record. Now only scavengers and farmers populate the city. People erect walls for protection and grow their own food and supplies. Within these walls, people begin to build vertical settlements and farming became just as important as religion. Public areas are plotted for the sole purpose of growing foods and the demands of food consumption are recorded and reflected upon the volume of these farming space. After the installation of these public spaces, parametric logic is then utilized to decide the most efficient mode for the individual planting units. Settlements are constructed on the existing foundations of current infrastructures, creating a new mode of architecture that also changes the way people live.



Design Project:

Retracting Taipei_Completing the Taipei Puzzle

Designer:

Tzu-Hsiang Lin and Rafael Martinez Caldera
(from the Department of Architecture at Taipei Tech)

Project Brief: The Taipei Prefecture, located at the intersection of two of Taipei's most important axis, throughout Taipei's history has always played a role important enough to affect the lifestyle of its residents within that era. Today, due to the movement of Taipei's railway system underground, the site suddenly become a grey area left without a purpose.

Through our foreign observation, we noticed that Taipei dwellers' sense of cultural value slowly being replaced as they embrace the compulsion to admire foreign customs over their own. From this perspective, we have created on this site a themed path, surrounded by programs depicted by the existing planning, in an attempt to provide Taipei dwellers with a space to search, reflect, and appreciate their own cultural values and standing.

Taipei Tech Won Championship in the Delta Automated Design Competition

The Delta Automated Design Competition was held on July 29 and 30, 2015. Among the 198 participating teams, Taipei Tech team was awarded the highest honor with their improved 3D printer, the Multiple Axis Motion Control Delta 3D Printer, designed by Taipei Tech students. This design not only improves 3D printer's accuracy but also increases printing speed by 20 percent.

Taipei Tech team was made up of team instructor Pai-Yu Tseng, associate professor from the Department of Mechanical Engineering, and three team members, Yu Ting Luo, Shi Yang Chou, and Shao Fan Yang. 3D printer is popular nowadays, but with current design i.e. one chip, one stepper motor, and one belt, the accuracy and speed still have room for improvement. In order to solve these problems, Taipei Tech team invented the Multiple Axis Motion Control Delta 3D Printer, which replaced tradition design with new a controller, a servomotor, a driving screw, and a central control system that can transmit motor signal to AC servomotor.

Yu Ting Luo noted that the measure error of Multiple Axis Motion Control Delta 3D Printer was 0.05 mm, much smaller than the average 0.1 mm of current 3D printer. In addition to the advantage on accuracy, Multiple Axis Motion Control Delta 3D Printer also prints out products faster; if a product costs 1 hour to be done with a regular 3D printer on the market, it will only cost 45 minutes with Multiple Axis Motion Control Delta 3D Printer.



Wish you have a great day ahead,

A handwritten signature in black ink, reading "Wenlung Li". The signature is written in a cursive, flowing style.

President

TAIPEI TECH

Tel:(+886)(2)27712171#1000

Fax:(+886)(2)27518845

No.1 Chung-Hsiao E. Rd. sec.3

Taipei, Taiwan 10608