



TAIPEI TECH won the highest rated university by Taiwan Ministry of Education in 2012...

**TAIPEI TECH
NUMBER ONE**

Celebrating 100 Years of Excellence in teaching and research! Happy Birthday TAIPEI TECH!!!



Vice President of Taiwan received honorary chair professor in TAIPEI TECH, a dream in youth fulfilled



TAIPEI TECH POST

National University of Technology Issue No. 1 · May 2012

Our Mission

Humanity and Creativity
Intelligent Tech
Green Tech
Health Tech

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Special Report

NTUT is the Number ONE Paradigm Technological University in 2012

National Taipei University of Technology is the number one university of "Paradigm Technological Universities" which was recently announced by the Ministry of Education on March 21st, 2012.

The "Paradigm Technological Universities" includes universities that are identified as "excellent" in research and education by academics from various vocational universities.



According to the Director of Technological and Vocational Education, Ministry of Education, "we are impressed that Taipei Tech has promoted a completed and detailed plan, therefore, it deserves the champion." Besides the characteristic of school development, it is declared that the ratings are based on the evaluations of whether the school focuses on nurturing talented people, practical training, industrial studies and research, as well as the integration with outstanding studies.

To defeat all the vocational universities in Taiwan, and to be the top one in the 2012 list, it is seen as a major source of prestige for Taipei Tech. The success of Taipei Tech can be attributed to the achievement of graduates in different fields, the significant rise in practical research including "Humanity and Creativity, Intelligent Tech, Green Tech, and Health Tech", as well as to the strengthen of collaborations with all industries.



TAIPEI TECH Celebrates Centenary with EV-1 Eco-friendly Car

As Taiwan's oldest "industrial instruction" university with its 100-year-old tradition of being the country's "Cradle of Entrepreneurship", TAIPEI TECH unveiled its first eco-friendly car in October, 2011 as part of its centenary celebrations.

The NTUT EV-1 electric vehicle was designed by professors and students in the Department of Vehicle Engineering of the College of Mechanical and Electrical Engineering, and the College of Design. Although the EV-1 as a research project will not be commercialised, its technologies and design will be promoted to the automotive industry in Taiwan. Version 2 is being developed with upgrade to a electric power system and dynamic stability of high speed driving for possible commercialisation by potential car makers.

Over 120,000 alumni have graduated from NTUT and have contributed considerably to the economic



development of Taiwan and won wide praise from the business and economic sectors.

Leehter Yao: "Our university has a rich history and is ready for another 100 years of excellence in teaching, learning and research."

TAIPEI TECH specialises in the training for young talents in the fields of science and technology, and has a number of new corporate entities. Its innovative programmes, which are taught in English, have attracted nearly 100 overseas students from 10 countries, said NTUT President

Among the first to take a ride in the EV-1 electric vehicle was Taiwan President Ma, Ying-jeou, who officiated at Taipei Tech's 100th anniversary celebrations ceremony. He was seen opening the car, with Taipei Tech President Leehter Yao looking on.



Taipei Tech Reaches No. FOUR in NATURE Research Ranking Among Taiwan Peers



Institution rankings for Taiwan

The rankings below are based on the number¹ of papers that were published as Articles, Letters and Brief Communications, or Reviews from institutions in Taiwan that were published within the last 12 months in *Nature* and *Nature* monthly research journals (excluding journals from scientific societies).

Research Articles **Reviews** **All**

Institution	Corrected Count ²
1. Academia Sinica	3.06
2. National Chiao Tung University (NCTU)	1.58
3. National Taiwan University	0.90
4. National Tsing Hua University (NTHU)	0.86
5. National Yang-Ming University (NYMU)	0.71
6. National Health Research Institutes (NHRI)	0.62
7. China Medical University	0.49

Source: Nature Asia-Pacific website as of April 23, 2012
<http://www.natureasia.com>

A research team led by Prof. Yi-Jun Jen, Department of Electro-Optical Engineering published their study in *Nature Communications* (Volume: 2, 21 June 2011). The paper raises the institution ranking of NTUT to corrected count 0.86 /article 1. The rankings are based on the number of papers that have been published in Taiwanese institutions, such as Articles, Letters and Brief Communications, or Reviews. In addition, the articles that were published within the last 12 months in *Nature* and *Nature* monthly research journals.

Waveplates are critical optical components in most optical system. However, for many applications, including CD and DVD storage and displays, the waveplate needs to control the polarization state without dependence on wavelength in the intensity of emerging light. Therefore, achromatic waveplate is indispensable in both scientific research and

commercial applications. The research was inspired by the microvillar structure of R8 cells functioning as polarization converters in the eyes of stomatopod crustaceans.

The team designed and tested periodically multilayered structures comprising two different types of arrays of nanorods; morphologically analogous to the ocular cells. They found that the periodically multilayered structures can function as achromatic waveplates over the visible regime.

Prof. Yi-Jun Jen is a Professor and Chairman of the Department of Electro-Optical Engineering. He joined the Department of Electro-Optical Engineering, National Taipei University of Technology, in 2002. His current research interests are the fabrication of nano-sculptured thin films, novel optical devices



development with multilayer design and deposition, and anisotropic optical analysis and measurements for nano-scale composite materials.

The full list of authors are: Yi-Jun Jen, Akhlesh Lakhtakia, Ching-Wei Yu, Chia-Feng Lin, Meng-Jie Lin, Shih-Hao Wang and Jyun-Rong Lai

The article entitled "Biologically inspired achromatic waveplates for visible light" and can be found at the following website :

www.nature.com/ncomms/journal/v2/n6/full/ncomms1358.html



Taiwan Vice President Became Honorary Doctor of Taipei Tech



The Vice President of Taiwan Vincent C. Siew, born in 1939, was awarded an honorary doctorate degree by TAIPEI TECH on April 24th, 2012.

Mr. Siew originally received admissions from Provincial Taipei Institute of Technology (later to become TAIPEI TECH), but due to the expectation and preference from family, he gave up the opportunity. Deep inside, he still feels he was supposed to be a member of TAIPEI TECH. Thus, TAIPEI TECH awards him honorary doctoral degree and certificate of alumni to fulfil his dream in youth.

Having graduated from college, Mr. Siew began his extraordinary life of public service. He devoted more than 50 years of his life to this service. He has held many significant positions: the Economic Affairs Minister of Taiwan from 1990 to 1993, Premier of Taiwan from 1997 to 2000.

In recognition of Mr. Siew years of devoted public life, TAIPEI TECH honoured him with an honorary doctorate. Mr. Siew officially became one of the alumni of TAIPEI TECH.

He is presently the 12th vice president of Taiwan from 2008.

In Mr. Siew's speech given after the honorary degree received, he urged that "for our country to thrive and successfully transform, people must start to 'think'". He particularly emphasised the role of younger people in this transformation. He said, "Taiwanese people must learn the skills of innovation and be prepared to change. Our country should direct its energy towards creativity, oriented to meet the world's need". Mr. Siew further indicated in the critical comparison of the Gross Domestic Product (GDP) between Taiwan and Singapore. Taiwan spent 19 years to grow from 10,000 USD to 20,000 USD, compared to 5 years in Singapore. The key to Singapore's growth lay in the development of creativity and innovation. Consequently, this was the road that Taiwan should take.

He also urged the University to embrace the global community and develop solid academic-industry collaboration. Hence, the university could contribute more to society and the country in terms of economic expansion and technological development.

Above all, TAIPEI TECH could earn the reputation of being an innovative technological university with its own unique features and specialties.



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

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