

**National Cheng Kung University** 

No.1 University Road, Tainan, Taiwan / Tel:06-2757575 / www.ncku.edu.tw

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## NCKU Advancing

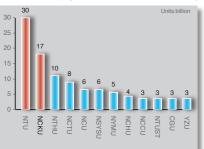


NCKU is a top-choice university.

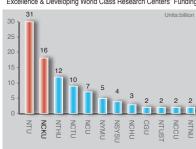
# NCKU is a First-class University An international top-tier university selected by MOE

Since the inception of Taiwan's Ministry of Education's (MOE) project "Promoting Academic Excellence and Developing World Class Research Centers" in 2005, National Cheng Kung University (NCKU) and National Taiwan University (NTU) have been chosen as the top two main schools for "promoting toptier universities". In 2011, the Ministry of Education has once again recognized NCKU as one of the best universities in Taiwan.

2005 Ranking of MOE's "Project of Promoting Academic Excellence & Developing World Class Research Centers" Funding



2011 Ranking of MOE's Second-Phase "Project of Promoting Academic Excellence & Developing World Class Research Centers" Funding



## The Most Favorable by Industry

According to annual surveys conducted by prestigious Taiwanese magazines: Common Wealth, Global Views, and Cheers - NCKU graduates have been ranked as "industry favorites" each year since 1993.

#### **International Dual-degree Program**

In 2004, NCKU became the first university in Taiwan to establish an International dual-degree program, with several renowned foreign universities. NCKU agreed to a dual-degree program with the Case Western Reserve University (CWRU) in Ohio, USA in 2004. Under this program, NCKU has been sending students to CWRU since 1997. Thanks to the program, it has become easier for qualified students in NCKU to acquire dual degrees. Furthermore, NCKU has established academic ties with nearly 100 world-renowned universities to engage in advancement and co-operation in intellectual, cultural, economic, research and technical capabilities.

### No.1 in Engineering, Materials Science Research Papers Ranking

According to Essential Science Indicators (ESI) on March, 2011, NCKU has published 18,333 papers and thus ranked the 170th worldwide, only second to that of NTU in Taiwan. Noteworthy to mention, papers published by NCKU's engineering and materials science fields have respectively ranked the 14th and the 26th worldwide, preceding the rankings of NTU in these two fields.

In addition, in the 2010 Performance Ranking of Scientific Papers for World Universities published by High Education Evaluation & Accreditation Council of Taiwan, NCKU has ranked the 19th worldwide and the 1st in its engineering field in Taiwan. NCKU has also ranked the 19th in Alternative Energy Field worldwide based on Elsevier's report in 2009. It is the only Taiwan institution in the global top 25 list.

#### No.1 in Academia-Industry **Collaboration Nationwide**

According to the evaluation done by the Ministry of Education (MOE), Taiwan, NCKU has ranked the first in terms of its active involvement with academia-industry collaboration for three consecutive years since 2008 and also in terms of its efficient fundraising and efforts for academia-industry collaboration for two consecutive years. Its academia-industry collaboration accomplishments count No.1 nationwide.

### **Cradle of University Presidents**

In addition to the reputation of industry's favorites, graduates from NCKU have also performed superiorly in academia. There are over 60 NCKU alumni who currently are incumbent or retired presidents of universities in Taiwan. NCKU, as such, seems to be a cradle for future university presidents.

### **NCKU Alumnus as a Nobel** Laureate

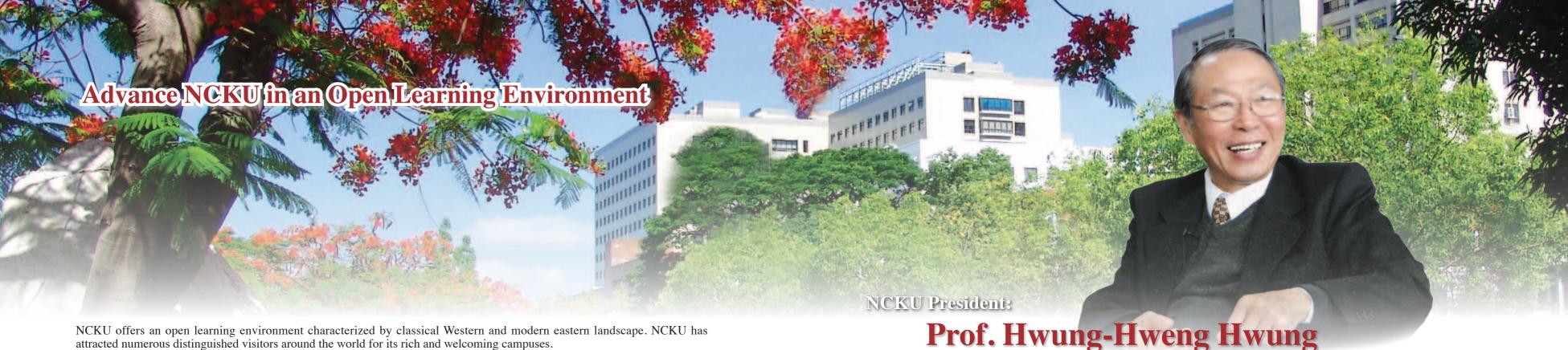
Dr. Samuel Chao Chung Ting, an outstanding NCKU alumnus from the Depart-ment of Mechanical Engineering, received the Nobel Prize in Physics in 1976.

#### The Only University with School Flag in the Space with the Formosat-2 Satellite

NCKU's satellite research group is one of the few research groups at institutes in Taiwan that was engaged in the implementation of Formosat-2 Satellite and is the only university whose school flag was brought with Formosat-2 into the space.

### **Comprehensive Research-Oriented University with Integrated** and Academic Fields on Major **Campuses**

NCKU is a comprehensive university with 9 colleges: Liberal Arts, Sciences. Engineering, Electrical Engineering and Computer Science, Planning & Design, Management, Social Sciences, Medicine and Bioscience & Biotechnology. All the colleges are within a walking distance on the main campus, allowing students to take interdisciplinary courses easily. At NCKU, students who major in science have a literary taste and students who major in liberal arts have science knowledge.

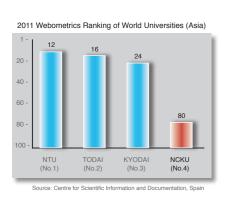


attracted numerous distinguished visitors around the world for its rich and welcoming campuses.

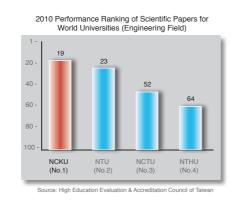
In addition to two off-university campuses, An-Nan and Gueiren, the main campus of NCKU consists of 7 satellite campuses adjacent to one another. NCKU occupies a total of more than 180 hectares of land, which tops many other universities in Taiwan. NCKU started out as having only one campus, Cheng Kung, but continued to expand to its current scale. Each campus in the major part of NCKU is closely interlinked and tightly developed as a city within the university.

NCKU's spirit of "pristine practicality" and its motto of "intellectual development through persistent pursuit of knowledge" have been intrinsic to the thick cultural heritage of the city of Tainan. While members of NCKU are well-integrated with one another, they also work independently. Patrons as NCKU enjoy abundant learning resources.

Through continuous evolution and progression, NCKU has become an active participant in global academia and has earned an excellent reputation in teaching and research. For example, NCKU has ranked the 256th in 2010 Academic Ranking of World Universities announced by Shanghai Jiaotong University and the 80th in 2011 Webometrics Ranking of World Universities published by Centre for Scientific Information and Documentation, Spain, only second to that of NTU, Todai and Kyodai in the Asian region.







Prof. Hwung-Hweng Hwung, born in 1946, received his bachelor degree of Hydraulics and Ocean Engineering at NCKU in 1970, master degree of Hydraulics and Ocean Engineering at NCKU in 1975, and doctoral degree of Civil Engineering at NCKU in 1981, which makes him the only President in the history of NCKU who has been deeprooted in National Cheng Kung University since the post-secondary education.

President Hwung-Hweng Hwung is professor of the NCKU Department of Hydraulics and Ocean Engineering, Director of Tainan Hydraulics Laboratory, and President of the Water Industry Development and Promotion Association. He is also a member of International Association of Hydraulic Research, Chinese Institute of Civil and Hydraulic Engineering, the Society of Theoretical and Applied Mechanics, R.O.C., the Association of Ocean Engineering, R. O. C., International Conference on Hydrodynamics (ICHD), and the Pacific Congress on Marine Science and Technology.

Prof. Hwung-Hweng Hwung has received numerous awards and honors, including PACON Service Award in 2003, Excellence Award for University-Industry Collaboration, National Cheng Kung University in 2004, Paper Award of Taiwan's Society of Ocean Engineering in 2004, Award of Hydraulic Engineering Contribution in Taiwan in 2005, Honorary Scholar Award of Li Guo Ding in 2005, the 2006 Award for Outstanding Contributions in Science and Technology in 2006, Fellowship of the Society of Theoretical and Applied Mechanics in 2007, NCKU Distinguished Industry-University Professor Award in 2007, Outstanding Alumni Award, National Tainan First Senior High School in 2008, Union-Tech Ocean-Engineering Technology Chair Professor in 2008, and Distinguished Research Award National Science Council, Taiwan, in 2010.

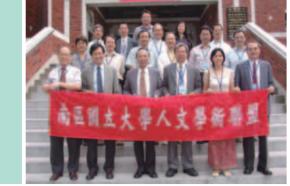
To advance National Cheng Kung University to become one of the world top universities, President Hwung determines to establish a friendly campus environment for bettering inter-disciplinary researches and teaching, creating the win-win situation for the academia-industry collaboration and academic excellence, as well as bringing about substantial international exchanges.

### Academics |

Comprehensive Research-Oriented University with Integrated and Academic Fields on Major Campuses



Since its establishment in 1931, NCKU has developed into a comprehensive research-oriented university comprised of 9 colleges: Liberal Arts, Sciences, Engineering, Electrical Engineering & Computer Science, Planning & Design, Management, Social Sciences, Medicine, and Bioscience & Biotechnology. NCKU currently offers 41 undergraduate programs, 74 master's degree programs, 53 doctoral programs and 17 master's degree programs for working professionals. There are more than one thousand faculty members and more than twenty thousand students at NCKU.









College	Department	В.	M.	Ph.D	M.A./ M.S. for working professionals
College of Liberal Arts	Department of Chinese Literature Department of Foreign Languages & Literature Department of History Department of Taiwanese Literature Institute of Art Studies	0 0 0	0 0 0 0	0 0 0	0
College of Sciences	Department of Mathematics Department of Physics Department of Chemistry Department of Earth Science Department of Electro-Optical Science & Engineering Institute of Space, Astrophysical and Plasma Science	0 0 0 0	0 0 0 0 0	0 0 0 0	0
College of Bioscience & Biotechnology	Department of Life Science Institute of Biotechnology Institute of Bioinformatics and Biosignal Transduction Institute of Tropical Plant Sciences	0	0 0 0	0 0 0	
College of Engineering	Department of Mechanical Engineering Department of Chemical Engineering Department of Resources Engineering Department of Materials Science & Engineering Department of Civil Engineering Department of Engineering Science Department of Hydraulic & Ocean Engineering Department of Systems & Naval Mechatronic Engineering Department of Aeronautics & Astronautics Department of Environmental Engineering Department of Geomatics Department of Biomedical Engineering Institute of Micro-Electro-Mechanical-System Engineering Institute of Cocean Technology & Affairs Institute of Civil Aviation	00000000000	0000000000000000	0000000000000	00000
College of Electrical Engineering and Computer Science	Department of Electrical Engineering Department of Computer Science & Information Engineering Institute of Manufacturing Engineering Institute of Microelectronics Institute of Computer & Communication Engineering Institute of Medical Informatics	0	0 0 0 0 0	0 0 0 0	0

College	Department	B.	M.	Ph.D	M.A./ M.S. for working professionals
College of Planning and Design	Department of Architecture Department of Urban Planning Department of Industrial Design Institute of Creative Industry Design	0 0 0	0 0 0	0 0 0	0
College of Management	Department of Business Administration Department of Accountancy Department of Industrial & Information Management Department of Transportation & Communication Management Science Department of Statistics Institute of International Business Institute of Information Management Institute of Finance & Banking Institute of Telecommunications Management Executive Master Program of Business Administration (EMBA) International Master Program of Business Administration (IMBA) Advanced Master Business Administration Program (AMBA) Institute of Physical Education, Health & Recreation	00000	00000000000000	00000000	0 0 0 0 0
College of Medicine	Department of Nursing Department of Nursing Department of Medical Laboratory Science & Biotechnology Department of Physical Therapy Department of Occupational Therapy Department of Biochemistry and Molecular Biology Institute of Pharmacology Institute of Physiology Institute of Microbiology & Immunology Institute of Clinical Pharmacy and Pharmaceutical Sciences Department of Environmental and Occupational Health Institute of Basic Medical Science Institute of Molecular Medicine Institute of Cell Biology & Anatomy Institute of Cell Biology & Anatomy Institute of Oral Medicine Institute of Oral Medicine Institute of Gerontology Institute of Allied Health Sciences	00000	000000000000000000000000000000000000000	0000	0
College of Social Science	Department of Political Science Department of Economics Department of Law Department of Psychology Institute of Political Economy Institute of Education	0 0 0	0 0 0 0	0	0
Elite student class	Program of Bachelor's degree	0			

## **Education** |

Outstanding faculty, abundant educational resources Solid, creative, dynamic, and diverse curricula



It is imperative for our country to cultivate professionals and improve our people's humanistic quality with the aim to adhere to the standards prevailing in developed countries and knowledge-based economies in the upcoming e-century. Equipped with a liberal vision, NCKU is well-versed with the global trends and is making efforts to become a top-notch university.















Outstanding faculty, abundant educational resource, and excellent research achievement are the foundation for NCKU to become a world-class university. Further, NCKU students' intellectual curiosity can be satisfied by the school's diverse, dynamic, creative, and solid curricula. With a global vision, NCKU is developing diverse programs which are characterized by creativity, innovation and entrepreneurship, such as "Thinkers Salon", to foster students' accomplishments in the humanities and to develop their spirit of caring for others around the world. Moreover, NCKU also offers dozens of programs as minor specialties to provide various learning opportunities for interdisciplinary curricula.

NCKU has also achieved remarkable success in globalization. Not only has an English-speaking environment been built to attract hundreds of international students, but substantial academic ties have also been established with many world-class universities and institutes. At NCKU, global scholarly exchange is ongoing all the time. Many top-notch scholars and experts devote themselves to NCKU.



## Research |

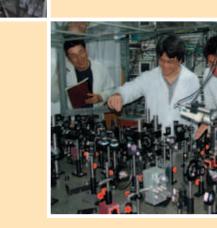
## **Excellent research environment to foster innovative inventions**



NCKU earns her reputation as a toptier university in Taiwan, because of its great achievement in research, academia-industry collaboration and its excellent researchers. In recent years, NCKU has also established a partnership with the Academia Sinica, the Industrial Technological Research Institute (ITRI), the National Applied Research Laboratories, and the Small and Medium Enterprise Incubation Center to jointly develop pioneering technology. Links among NCKU, the Southern Taiwan Science Park and the Kaohsiung Science Park are comparable to those among the Stanford University, the University of California at Berkeley, and the Silicon Valley.















Over the years, NCKU faculty and students have achieved great success in research, which is reflected in the number of publications in international academic journals. According to the ESI database, NCKU has published 18,333 papers in the last ten years and has respectively ranked the 14th and the 26th in its engineering and materials science fields. In addition, in the 2010 Performance Ranking of Scientific Papers for World Universities published by High Education Evaluation & Accreditation Council of Taiwan, NCKU's engineering field has ranked the 19th worldwide.



Source: Institute for Scientific Information (ISI)

### Facilities |

**Modern and Excellent Facilities:**Laboratories, Library and Information Network



NCKU is a key university in Taiwan, especially in the southern part of the island. There are many advanced national-scale research centers and laboratories to support the teaching and research at NCKU, including the unique Test Plants of Aviation Technology, the National Scale Building Material Experiment Groups funded by the Ministry of Interior Affairs, the Telemetry Tracking & Command Site (TT&C), the National Chip Implementation Center, the Instrument Center

of National Science Council, the Engineering & Technology Promotion Center, the Yen Tjing Ling Industrial Research Center, the Nanotechnology Research Center & Nanotechnology Laboratory, and the Office of National Synchrotron Radiation Research Center. In addition, NCKU has also built the biggest hydraulics laboratory in Asia, where the Fuji TV station from Japan shot the simulated tsunami that took

place off Sumatra, Indonesia in December, 2005. These facilities speak for the exceptional abundance of research resources at NCKU.

NCKU library is a five-floor building with three underground levels, providing numerous collections as well as comfortable environment and facilities. The library collection presently includes more than 1,200,000 volumes, 530,000 foreign and Chinese periodicals (including e-journals), and 510,000 audiovisual collections. Students are inspired and absorb the knowledge in the library of NCKU.







In addition to numerous collections, NCKU library has established agreements to exchange publications with more than 10 universities to share collection resources. NCKU library also digitizes the collections for readers to easily browse the latest information and news taking place globally.

NCKU has also developed advanced technology, which serves as the network center of Taiwan Academic Network (TANet) in Tainan. NCKU houses the Branch Office of the National Center for High Performance Computing. ADSL wide broad network has been established to provide superior-quality and high-speed network service, such as cache and wireless access. Therefore, the latest world events and information can be easily accessed by all members at NCKU via the convenient internet.



## **Environment** |

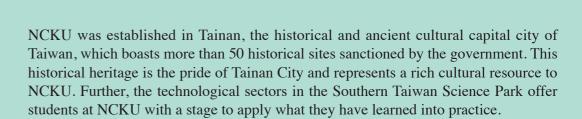
## Located in Culture-rich City with Advanced Technology









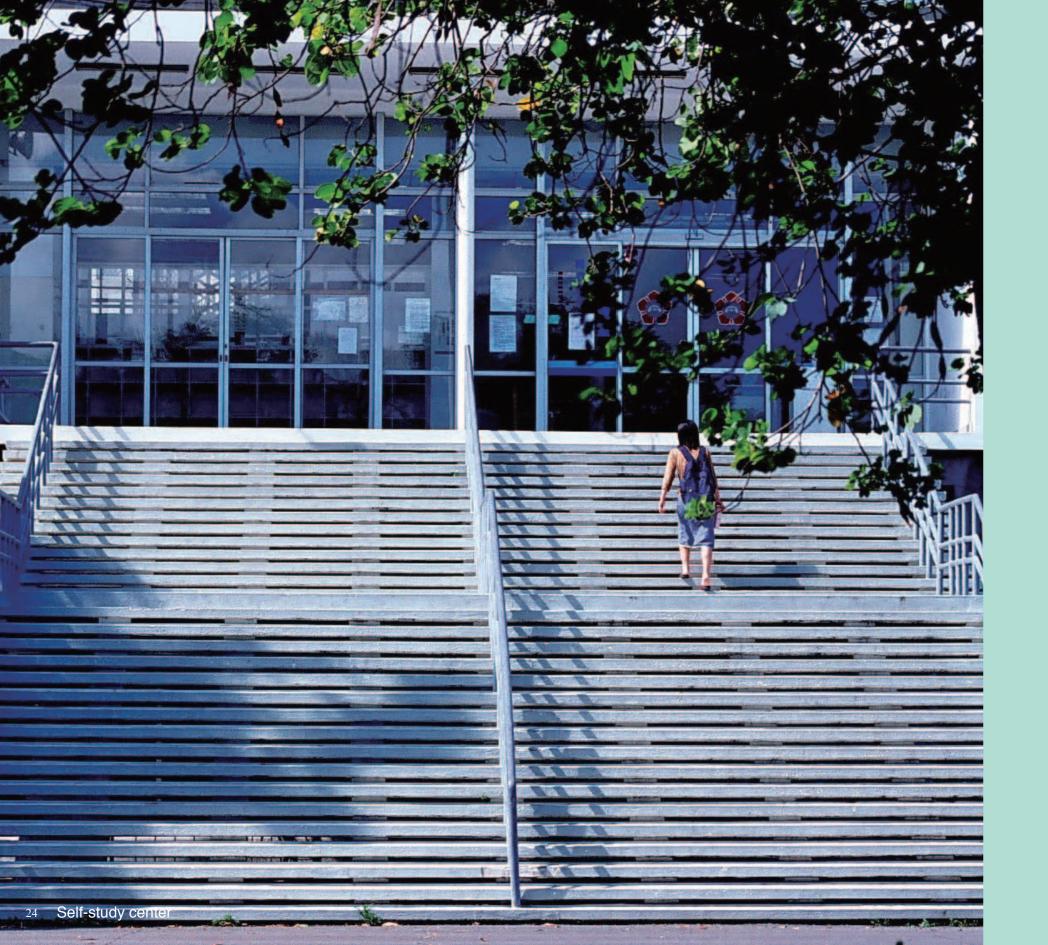






The independent department building on the NCKU campus creates a sense of community for the students in each department. Moreover, the school is close to the train station and is only a 20-minute drive from the high-speed railway station. All kinds of delicacies can be savored on and off campus. Recreational places, such as department stores and movie theaters are all within walking distance. Life at NCKU is very convenient!















## Student Associations Enrich University Life

Participation in student associations provides a vital opportunity for students to gain confidence and to establish interpersonal relationship. There are currently more than one hundred student associations at NCKU, which can be categorized into six types: General, Academic, Recreational, Service, Sports,



and Social Associations. Students can freely join any student associations according to their interests, specialties, ambitions or ideals. At NCKU, student association activities take place all the time.

### Living in the dormitory is a lot like living at home

Dormitories at NCKU have classic exteriors as well as comfortable interiors and facilities. All dormitories are located in designated areas on campus. With a garden-like design and serene environment, living in the dormitory is a lot like living at home. Each dormitory building is equipped with modern electric appliances and network service. Thirteen dormitory buildings with a total of 6,600 bed units provide students with comfortable accommodation. In addition, a new dormitory built by a BOT project with 648 hotel-standard bed units was introduced in September 2008. NCKU aims to provide its students with high-quality accommodation.

## Social Service |

## NCKU Leads Taiwan's Industrial Development and Has Created Taiwan's Economic Miracle







As a top-notch national university in Taiwan, NCKU has the obligation and responsibility to contribute to national modernization. NCKU, as the oldest engineering school nationwide, has been cultivating many excellent engineers devoted to manufacturing, construction and social services. NCKU played a vital and critical role in creating Taiwan's "economic miracle" by helping to transform Taiwan from an agriculturally-based society to an industrialized economy during the 1960's and 1970's.













## Pioneering Research and Service Headquarters in NCKU as Model for Academia-Industry Collaboration

Since NCKU established the Research and Service Headquarters (RSH) in 1996, the first of its kind nationwide, a total of more than fifty research centers have been founded. These include the Disaster Prevention Research Center, the Satellite Geoinformatics Research Center, the Coastal Ocean Monitoring Center, the Resource Recycling and Management Research Center, the Business Incubation Center, - all with the aim to integrate research work force and resource as well as to establish cooperative platform and liaison among industry, government, academia, and research organizations. NCKU makes great contribution to industrial development and domestic competitiveness through transferring research achievement to industries. Each year, an affiliated center of the RSH is, on average, commissioned to conduct 3 or 4 projects of Industry-Academia cooperation, which amounts to around seven or eight hundred million New Taiwan Dollars (NTD). This establishes a good model for other universities with interest in academia-industry collaboration





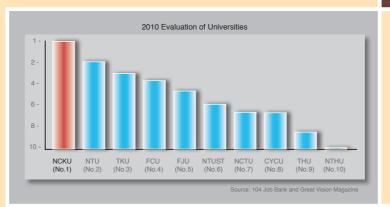
## **NCKU Graduates Most Favorable by Industry**



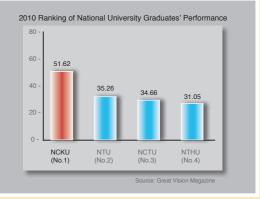








For NCKU graduates, "intellectual development through persistent pursuit of knowledge" is the motto, while "honesty and moderation" is the working principle. According to the surveys conducted by such magazines as Common Wealth, Cheers, and Global Views, NCKU graduates have earned the reputation of "the first choice among hiring managers" and the "industry's favorites" each year since 1993. NCKU's graduates are deemed as possessing professional skills, team-work spirit, and diligence.



### NCKU Graduates as Elites in Industrial and Government Circles

Graduates from NCKU are generally considered as elites of the society. To date NCKU has more than 120,000 alumni living all over the world. In addition to numerous alumni in industrial sectors, there are also many alumni appointed as chiefs in the government agencies. In academia, there are more than 60 alumni who are incumbent or retired presidents of universities. NCKU indeed deserves the reputation of being a cradle for presidents of universities.





## Alumni as Former or Current Heads of Central Ministries:

Hsin-Yi Lin (former Vice Premier), Chen-Hsing Yen (former Minister of Education), Yun-Ping Luo (former Minister of Education), Jin Wu (former Minister of Education), Poh-Hsiung Wu (former Minister of Interior, former Presidential Secretary General), Jaw-Yang Tsai (former Minister of Transportation and Communication), Jian-Shiuan Wang (President of the Control Yuan), Nan-Cheng Su (former National Assembly Speaker), Han-Min Hsia (former Minister of National Science Council), Chin-Der Ou (former Chairperson of Public Construction Commission of Executive Yuan), Cheng-I Weng (former Minister of National Science Council), Yao-Chi Kuo (former Minister of Transportation and Communication), Chang-Yao Hsu (former Director General of Directorate General of Budget, Accounting and Statistics of Executive Yuan), Chi-Kuo Mao (Minister of Transportation and Communication), Lou-Chuang Lee (Minister of National Science Council) etc.



### **Alumni as Former or Current University Presidents:**

Chen-Hsing Yen (NTU, NCKU), Jyong Lang Liou (NTHU), Jiun-Yen Chang (NCTU), Paul Chu (Hong Kong University of Science and Technology), David C. Chang (Polytechnic University), Rose Tseng (University of Hawaii at Hilo), Han-Min Hsia (NCKU), Cheng-I Weng (NCKU, FGU), Lou-Chuang Lee (NCU), Tsung Yan (NCHU), Mau-Ling Wang (CCU), Ching-Tien Liou (NTUST), Victor W. Liu (NSYSU) Chin-Hsiung Chen (SZMC), Chi-Ming Chuang (NTUE), Mou-Yung Yeh (NJIT), Shan-Hwei Ou (Tajen), etc.



### **Recipients of NCKU Outstanding Alumni Award:**

Diane Ying, Poh-Hsiung Wu, Jin Wu, Chung-Laung Liou, Jian-Shiuan Wang, Paul Chu, Ying-Tai Lung, Hsin-Yi Lin, Chen-Hsing Yen, Eric G. Leana, Jennie S. Hwang, F.C. Tseng, Samuel Ting, Lawrence T. Wong, Harold Szu, C.Y. Lee, Nan-Cheng Su, Ming Tsan Liu, Jhong-Jyun Chang etc.

### **Honorary Doctorates:**

Ta-You Wu, Yuan-Tseh Lee, Yun-Suan Sun, Kuo-Ting Lee, Hsiou-Chi Wu, Shih-Tao Yeh, Yu-Hsiu Ku, Ching-Yuan Kao, Morris Chang, Yuan-Cheng Fung, Aaron Ciechanover, Britton Chance and Peter Hamilton Raven.



Dr. Samuel CC Ting (1976, in Physics)







Aaron Ciechanover

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### **NCKU Advancing**

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