



國立交通大學
National Chiao Tung University

2nd Taiwan-Hungary Education Roundtable 2016

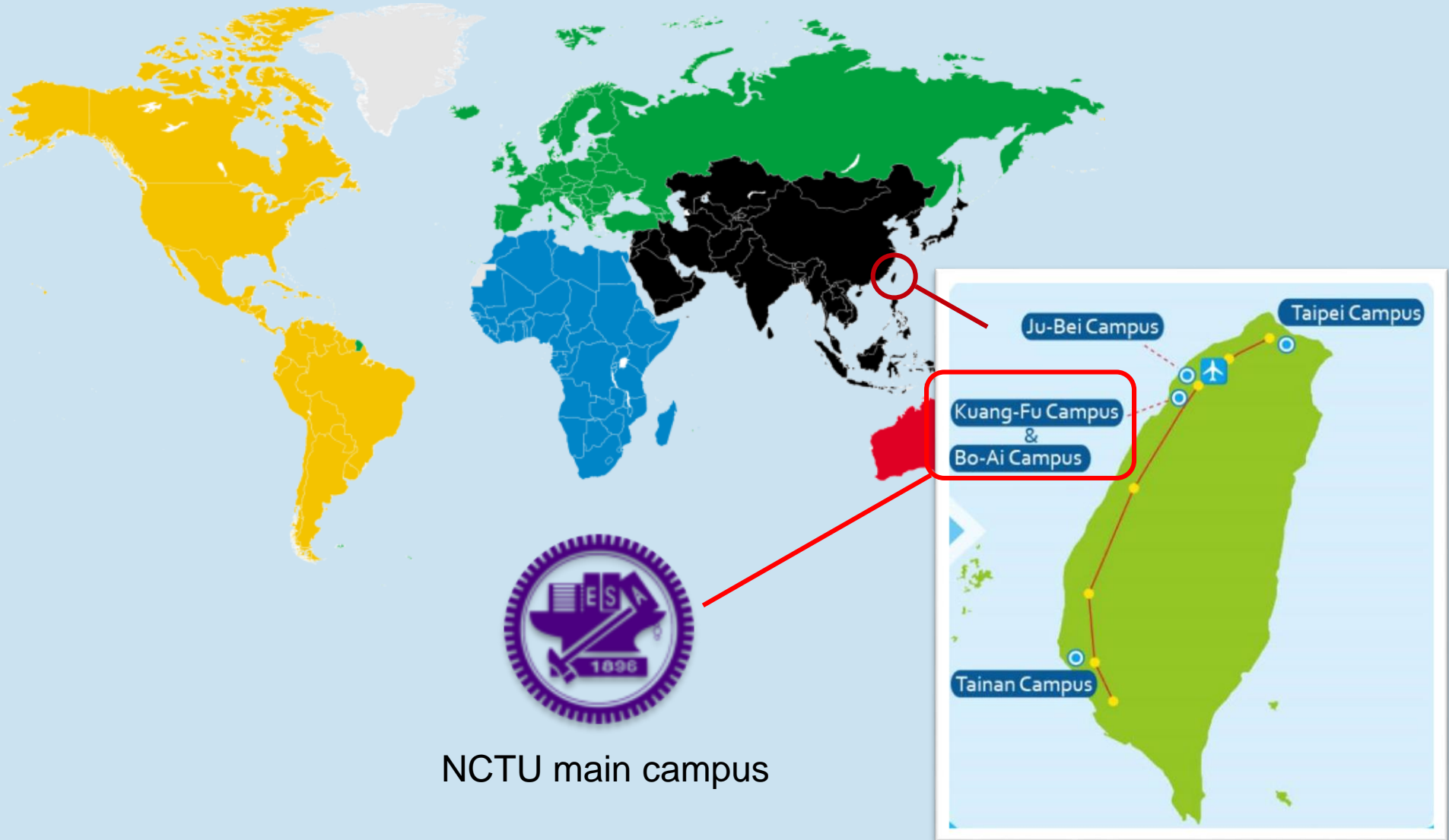
National Chiao Tung University

Dr. Han-Ping D. Shieh, IEEE/OSA/SID Fellow
NCTU/UST Vice Chancellor
Professor, Dept. of Photonics and Display Institute

Sep. 19, 2016, Budapest, Hungary



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National Chiao Tung University

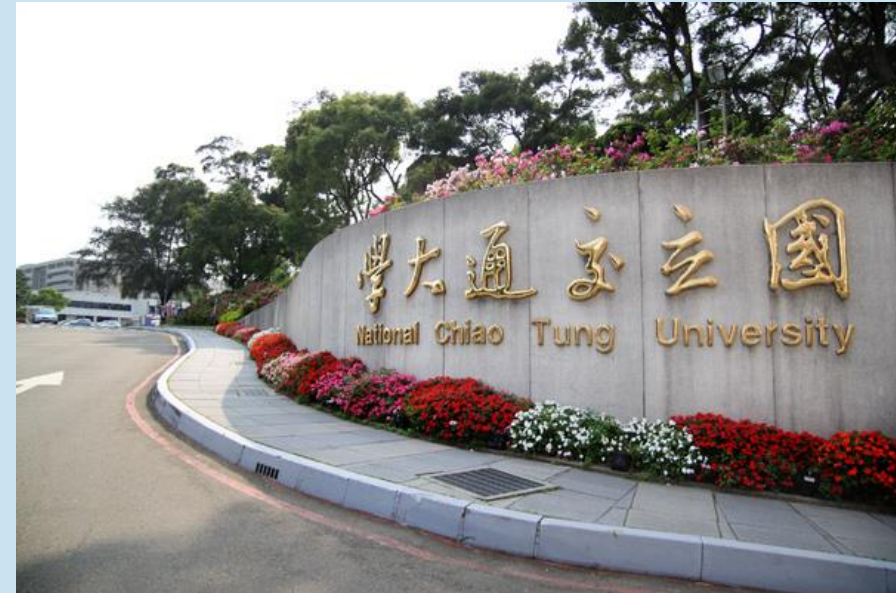


NCTU main campus



天地”交”而萬物”通“ – We connect!

- Originally founded in Shanghai in 1896, re-established in Taiwan in 1958
- Located in Hsinchu City, next to Hsinchu Science Park, the “Silicon Valley of Taiwan”
- One of the most prestigious universities in Taiwan





7 National Key Laboratories





	Number	
Undergraduate Students	5,437	Total 12,607
Graduate Students	7,170	
Full-Time Faculty	714	
Researcher	279	

- ◆ Academia Sinica (TW)- Academician: 7
- ◆ US National Academy of Engineering - Foreign Associate: 1 / Member: 2
- ◆ The World Academy of Sciences for the Advancement of Science in Developing Countries - Elected Member: 2



Dr. Simon M. Sze
Semiconductor
Physics and Devices
IC Manufacture
Technology



Dr. Chun-Yen Chang
Semiconductor
Technology



Dr. Yan-Hwa Wu Lee
Biochemistry



Dr. Mau-Chung Chang
Semiconductor



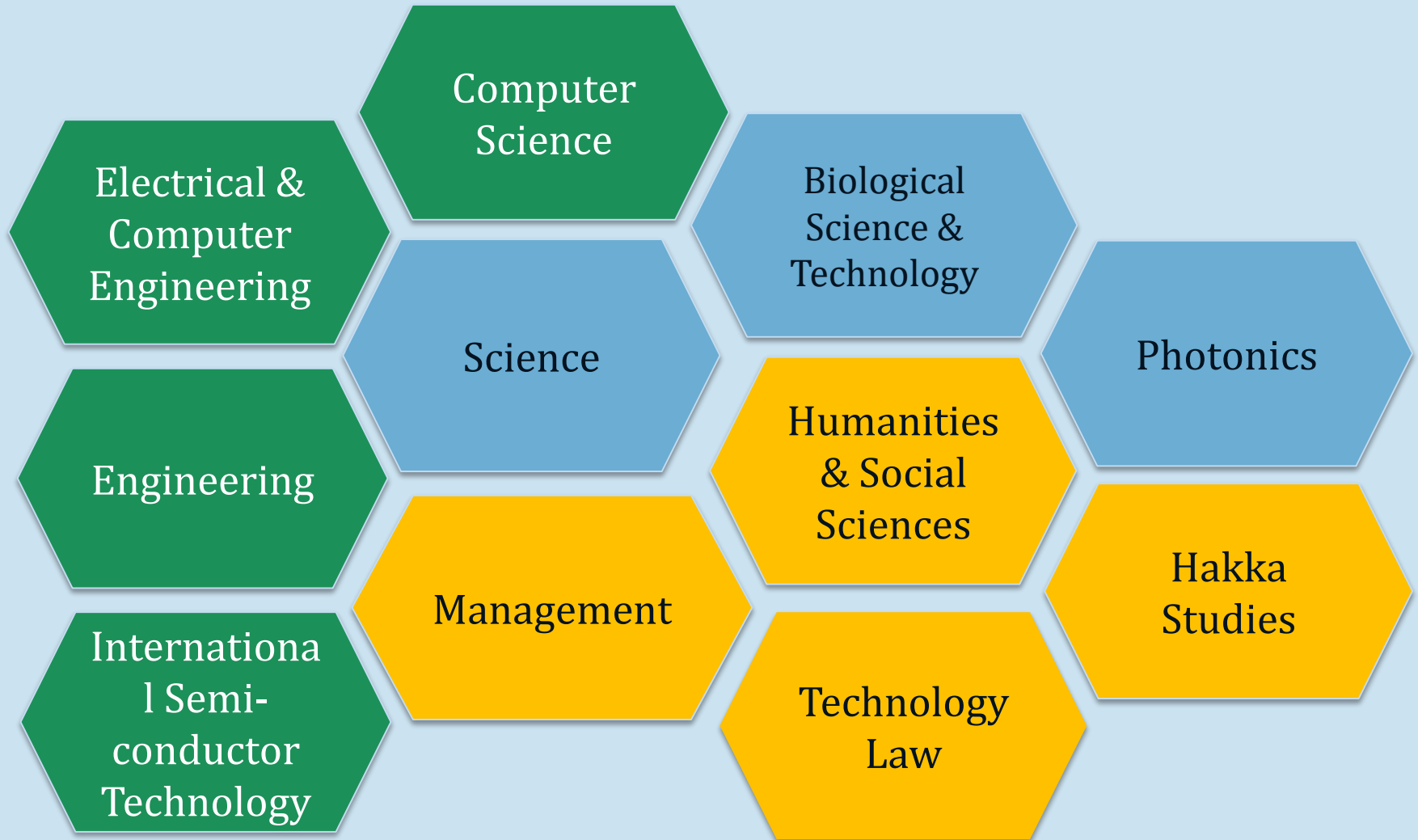
Dr. Yuan-Pern Lee
Physical Chemistry



Dr. Ming-Chang Lin
Physical Chemistry



Dr. Sheng-Hsien Lin
Physical Chemistry





QS World University Rankings by Subject 2016

- **48 in Engineering – Electrical and Electronic**

Academic Ranking of World Universities by Shanghai Jiao Tung University, 2015

- **51-75 in Computer Science & in Engineering**

International accreditation: College of Management

- **Accredited by AACSB (Association to Advance Collegiate Schools of Business) since 2007, renewed in 2012.**





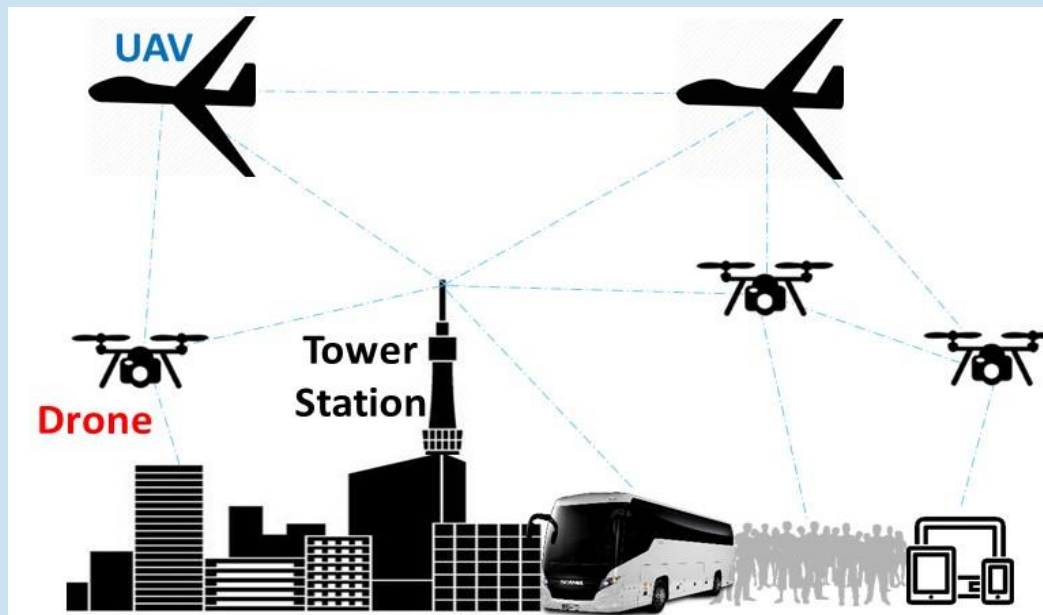
- Center for Interdisciplinary Science (CIS)
- Frontier Photonics Center
- Intelligent Information Communications Research Center (I²CRC)
- Bioinformatics Research Center (BRC)
- Emerging Nano-Electronics and Systems (ENES) Research Center
- Brain Research Center
- Biomedical Electronics Translational Research Center





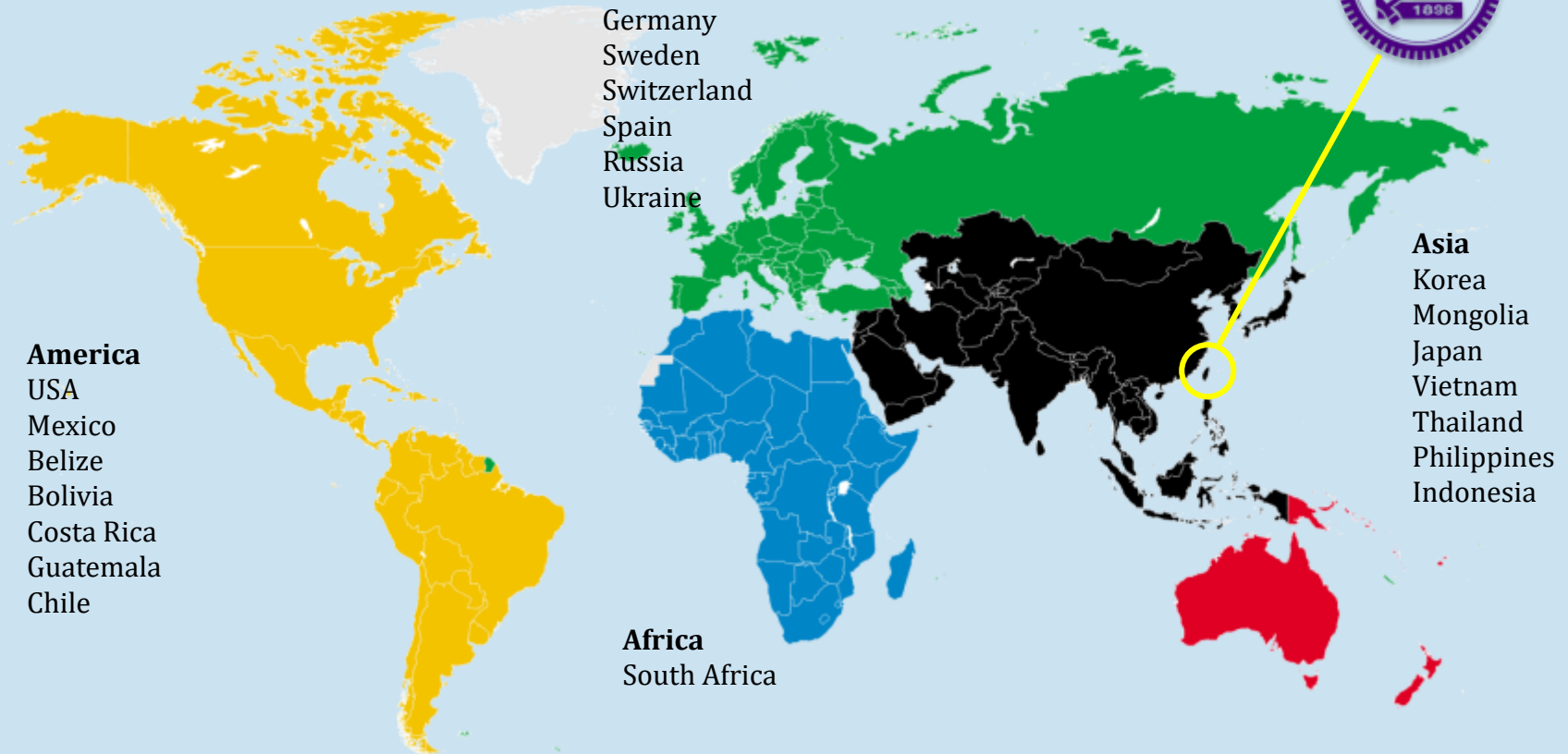


Smart Campus by SkyNet (beyond 5G)





International Students Coming From more than 60 countries

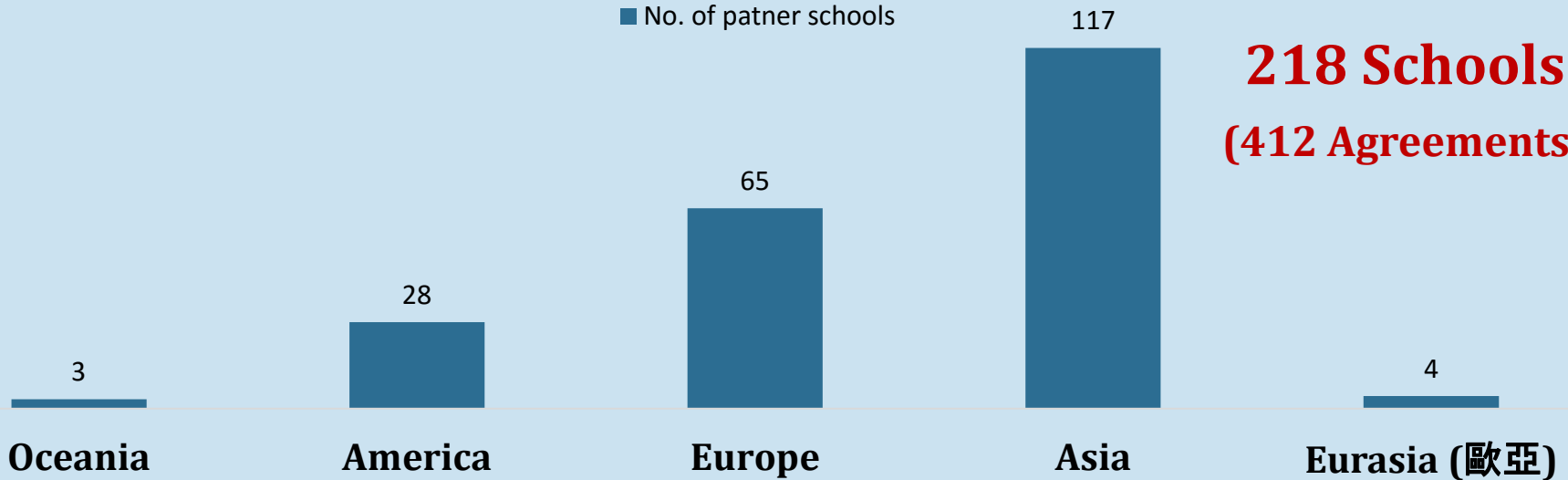




International Academic Collaboration

■ No. of partner schools

218 Schools
(412 Agreements)



Oceania

Oceania

- Royal Melbourne Institute of Technology
- University of Technology Sydney

America

America

- UIUC
- CMU
- NC State
- Purdue U.
- Waterloo U.
- U. Ottawa

Europe

Europe

- KU Leuven
- Chalmers
- KTH
- TUM
- TUB
- ETH Zürich
- University of Southampton
- Leeds

Asia

Asia

- IIT, Bombay
- KAIST
- NUS
- NTU
- Tokyo U.
- TIT
- Israel-Technion - Israel Institute of Technology
- PKU
- THU
- SJTU
- ZJU
- FDU
- HUST
- HKU
- HKUST
- City U

Eurasia (歐亞)



- ◆ Departments: 21 (include 3 degree programs)
- ◆ Master programs: 61 (5 taught in English)
- ◆ Ph.D. programs: 37

All-English Grad Degree Programs

- ◆ **Int'l Graduate Program in Electrical Engineering and Computer Science**
- ◆ **Global MBA Program**
- ◆ Int'l Master of Science Program for Interdisciplinary
- ◆ Molecular Science of Materials and Chemical Biology
- ◆ Grad. Program, Int'l College of Semiconductor Technology
- ◆ Int'l PhD Program in Photonics
- ◆ Int'l PhD Program in Interdisciplinary Neuroscience
- ◆ Int'l PhD Program in Environment Science and Technology



NCTU Scholarship

- Up to NT\$10K (US\$30)/NT\$13K (US\$390) /NT\$20K (US\$600) for B/M/D Students
- Tuition waiver award available for application
- Up to 4/2/4 years for B/M/D student

Elite PhD Scholarship

- Up to 2 years, may apply for NCTU Scholarship afterwards)
- Up to NT\$30,000 (US\$900)/Month, with tuition and dorm fee waiver
- By recommendation of admission committee

Taiwan Scholarship

- Offered by Taiwan Government
- Up to NT\$30K (US\$900)/Month
- Up to 4/2/3 years for B/M/D Students
- Apply via Local Taiwan Embassy

NCTU Taiwan Elite Internship Program

- Current Master or PhD students from foreign universities to do short term research(at least 2 months) in NCTU.
- Financial Support: Free round trip flight ticket + NTD 5,000 scholarship



Notable NCTU CEO Alumni



Zai-Xing Qiu
Electronics
VC



Ding-Hua Hu
VC Founder



Stan Shih
Acer/PC



Robert Tsao
UMC
Foundry



Ho-Ming Huang
Atelligent Global
Consulting



Shu-Wu Du
Synnex
Sales Channel

In the past,
NCTU has educated many industry leaders for Taiwan.

Ming-Zhi Xuan
UMC
Foundry



Shun-Yi Chu
ZyXEL
Communication



Feng-Tsu Tsai
GeTac
Communication



Jonney Shih
ASUS/PC



Ke-Chen Liu
AdvanTech
Industry/PC



Hyley H. Huang
WinTek
TFT Display





Curriculum

Technology Entrepreneurship

Entrepreneur Business Practice

Foresight of IOT Industries

Entrepreneurs and Entrepreneurship

Cultivation of Leadership in ICT

Financial Engineering for New Ventures

Foundations of Management and Entrepreneurship

◆ Venture Lab @ NCTU

3 steps: Courses, Incubation, and startup

1. Courses: ECE College
2. Incubation: co-work space, ...
3. Startup: VC

NCTU Venture Lab CEO Club

2015.6.30





➤ **Venture Lab Forum**

2014.11.14

◆ Keynotes:

- **Y. Zeevi**, Technion -- Israel Institute of Tech. (Israel)
- **Mung Chiang**, Princeton U., (USA);
- **Kazuhiro Chiba**, Tokyo U. Agriculture & Tech (Japan)

➤ **Venture Lab Forum**

2015.10.21

- Keynotes:

- **Tom Chiu**, Angel investor and Venture Partner of Enspire (USA)
- **Maarten Hooft**, Partner at Quest Venture Partners (USA)
- **Alireza Masrou**, Managing Director of Plug & Play Ventures (US)
- **Jimmy Kim**, Co-founder & Partner at SparkLabs (Korea)



New NCTU Entrepreneurs



Chi-Huang Chiu
Internet
Social network

Chao-Jung Chen
Imaging Processing
Car Monitoring



Now,
New NCTU entrepreneurs will continue this venture
journey...

Kun-Ho Liu
Material
Cosmetic

Chu-Ming Cheng
Optical
Medical Imaging

Ming-Hui Wen
Internet
Social Network

Shih-Heng, Cheng
Electronics
Sensor

Hung-Chieh Kao
Software
APP





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**Thank you for
your attention**

