



iCEER-2005

Summary Report

Progress through Partnerships:

Exploring Innovation in Education and Research

Prof. Shan-Hwei Ou

Chair of the National Organizing Committee of iCEER-2005

National Cheng Kung University

Tainan, Taiwan

History of planning

- 2003.11 Professors Shan-Hwei Ou and Jiun-Jih Miao attended iNEER ISC Meeting (US)
- 2004.05 The 1st Meeting of iCEER-2005 National Organizing Committee
- 2004.07 Professors Che-Ho Wei, Shan-Hwei Ou and Jiun-Jih Miao attended iNEER ISC Meeting (iCEER-2004)
- 2004.10 Professors Che-Ho Wei and Jiun-Jih Miao attended ICEE2004 and iNEER ISC Meeting (ICEE2004)
- 2004.12 The 2nd Meeting of iCEER-2005 National Organizing Committee
- 2003.08
~ 2005.02 16 Local Committee Meetings
- 2005.02.28 iCEER-2005 Pre-workshop
- 2005.03.01
~ 03.05 iCEER-2005 Conference



Location of iCEER-2005

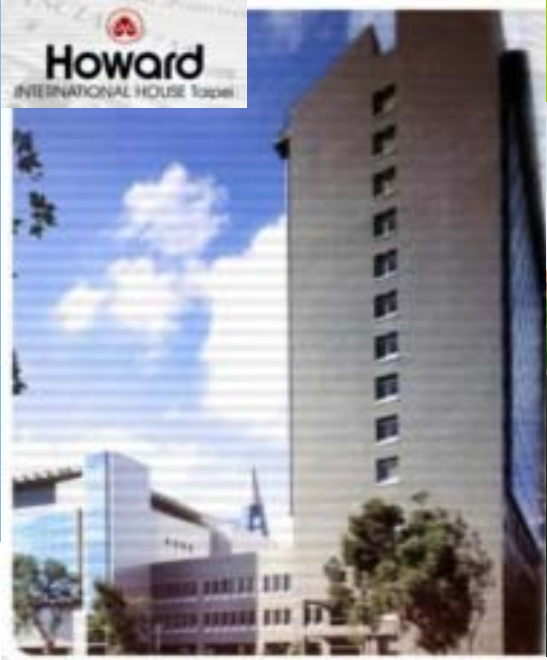
February 28 – March 5, 2005

Howard, International House Taipei

National Cheng Kung University, NCKU, Tainan



Pre-Workshop: Taipei



**Conference Venue:
NCKU, Tainan**





iCEER-2005 Program

Time	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Time				
	February 28	March 1	March 2	March 3	March 4	March 5					
08:00							08:00				
08:30	On-site Registration (Taipei)	Hotel Check-out	On-site Registration (Tainan) at International Conference Hall of NCKU			Hotel Check-out	08:30				
09:00	Pre-Workshop	Taipei City Tour	Opening Ceremony	Plenary Session B	Plenary Session C	Culture Tour	09:30				
09:45				Coffee Break	Coffee Break			10:00			
10:15				Plenary Session A	Parallel Sessions (T1** - T7)				Parallel Sessions (F1*** - F7)	Lab tour (1)	
10:45				Coffee Break							Invited Sessions A and B
12:00				Lunch & Transfer to STSP							
12:15		Lunch	Lunch (Culture Speech)	Lunch							
13:00	Lunch	Lunch			Parallel Sessions (W1*-W5)	Technical Tour (Southern Taiwan Science Park, STSP)	Poster session (FP1**** - FP40)	Lab Tour (2)	13:00		
13:30		Transfer to Tainan	Transfer to hotels	Break						13:30	
15:30	Taipei City Tour		Free time	Transfer to Tainan City Hall	Transfer to hotels	Best Paper Award and Closing Ceremony	16:00				
16:00			Transfer to Tainan City Hall	Free time	Transfer to Anping Fort			16:00			
17:00			Transfer to Hotel TAYIH LANDIS	Transfer to hotels	Transfer to hotels	17:00					
17:30	Transfer		ISC meeting & Reception at Hotel TAYIH LANDIS	Transfer to Hotel TAYIH LANDIS	Transfer to Anping Fort		17:30				
18:00			Transfer to hotels and Kuang-Fu Campus	Banquet at Hotel TAYIH LANDIS (iNEER Award Ceremony)	Farewell Party at Anping Fort	18:00					
18:30	Dinner at Howard International House Taipei		Transfer to hotels and Kuang-Fu Campus				18:30				
20:30			Transfer to hotels and Kuang-Fu Campus	19:00							
21:00			Transfer to hotels and Kuang-Fu Campus		22:00						
21:30			Transfer to hotels and Kuang-Fu Campus	22:30							
22:00			Transfer to hotels and Kuang-Fu Campus		22:30						
22:30			Transfer to hotels and Kuang-Fu Campus	22:30							

Arranged Shuttle from QCS Airport to Taipei

Arranged Shuttle from KHH Airport to Tainan

Transfer to Tainan, KHH, QCS International Airport and Taipei by bus arranged

* : "W1"denotes "Wednesday" + "Session room 1" ;*** : "F1" denotes "Friday" + "Session room 1"

** : "T1" denotes "Thursday" + "Session room 1" ;**** : "FP" denotes "Friday" + "poster 1"

Registration fee

Pre-conference Workshop Taipei	Full Registration	Accompanying person
Pre-registration	US\$ 80	
On-site registration	US\$ 120	

iCEER-2005 Tainan	Full Registration	Accompanying person
Pre-registration	US\$ 500	US\$ 150
On-site registration	US\$ 550	US\$ 180



International Steering Committee

- **General Chair:**

Wei, Che-Ho, Taiwan

- **Committee Members:**

Altenkirch, Robert, USA

Antonidakis, Emmanouel, Greece

Auer, Michael, Austria

Aung, Win, USA

Armenise, M., Italy

Begell, William, USA

Boran, Jim, UK

Cermak, Tomas, CZ

Chen, Juh Wah, USA

Chebotarevsky, Yury, Russia

Chikuni, Edward, Zimbabwe

Cruz, Carlos Brito, Brazil

Gillet, Denis, Switzerland

Hesselink, Lambertus, USA

Ho, Byung-Hwan, Korea

Hoffmann, Michael, Germany

Ilic, Vojislav, Australia

Imbert, C.A.C., Trinidad and Tobago

Jack Judy, USA

Jewell, Thomas, USA

Johnson, Wayne, USA

Kassinopoulos, Marios, Cyprus

King, Michael, USA

King, Robin, Australia

Kuutti, Wille, Finland

Lemckert, Charles, Australia

Leung, C.F., Singapore

Low, Sew Ming, Malaysia

Lyons, Jed S., USA

Melamed, Benjamin, USA

Minayev, O., Ukraine

Moscinski, Jerzy, Poland

Ou, Shan-Hwei, Taiwan

Ramakrishna, S., Singapore

Roubicek, Vaclav, Czech Republic

Ruiz, Luis Manuel Sanchez, Spain

Salih-Hassane, Hamadou, Canada

Sandnes, Frode, Norway

Skvarenina, Timothy, USA

Wagner, Bernardo, Germany

Walters, Debora, USA

Zielinski, Wojciech, Poland

National Organizing Committee

- **General Chair:**

- *Ou, Shan-Hwei (National Cheng Kung Univ.)*

- **Members:**

- *Chang, Jin-Fu (National Chi Nan Univ.)*

- *Jou, Jing-Yang (National Chiao Tung Univ.)*

- *Ku, Chia-Hung (National Kaohsiung First Univ. of Science and Technology)*

- *Lin, Fou-Lai (National Science Council)*

- *Lin, Tsong-Ming (National Yunlin Univ. of Science and Technology)*

- *Luo, Ren C. (National Chung Cheng Univ.)*

- *Miau, Jiun-Jih (National Cheng Kung Univ.)*

- *Shyu, Jia-Ming (Chien Kuo Institute of Science and Technology)*

- *Tsay, Chung-Biau (National Science Council)*

- *Tsai, Ying-Chien (National Sun Yat-sen Univ.)*

- *Wang, Wei-Chung (National Science Council)*

- *Wu, Jennie (Ministry of Education)*

- *Yan, Hong-Sen (National Cheng Kung Univ.)*

- *Yang, Yeong-Bin (National Taiwan Univ.)*

Local Committee

- **Chair:** Miao, Jiun-Jih
- **Members:**
 - *Chao, Yei-Chin*
 - *Chen, Yi-Jane*
 - *Chiang, Dar-Yun*
 - *Chiung, Wi-Vun*
 - *Chung, Kung-Ming*
 - *Ho, Michelle*
 - *Huang, Julie*
 - *Huang, Song-Po*
 - *Jian, Hua-Li*
 - *Ko, Maty*
 - *Lee, Elaine*
 - *Leu, Tzong-Shyng*
 - *Lin, Pei-Hong*
 - *Ouyang, Shin-Mei*
 - *Tsai, Wan-Shyung*
 - *Wen, Yun-Che*
 - *Wu, Jane Y. J.*



Keynote Speakers

- **Aung, Win**
(Secretary-General of iNEER, USA)
- **Chang, David C.**
(President, Polytechnic University of New York, USA)
- **Chebotarevsky, Yury**
(Rector, Saratov State Technical University, Russia)
- **Lee, Chih-Kung**
(Director General, National Science Council, Taiwan)
- **Lee, Peter**
(Dean, Cal Poly San Luis Obispo, USA)
- **Wang, Wei-Chung**
(Professor, National Tsing Hua University, Taiwan)
- **Sandnes, Frode Eika**
(International Coordinator, Oslo University College, Norway)



Invited Speakers

- **Chiung, Taiffalo W. V.**
(National Cheng Kung University)
- **Huang, George**
(Director, University of Kentucky, USA)
- **Lee, Fong-Ming**
(Chinese Culture University)
- **Lohani, Vinod**
(Professor, Virginia Tech, USA)
- **Mościński, Jerzy**
(Silesian University of Technology, Poland)
- **Muffo John**
(Virginia Polytechnic Institute and State University)
- **Robert Ruprecht**
(Bernser Fachhochschule HTI Biel-Bienne, Switzerland)
- **Saliah-Hassane, Hamadou**
(Professor, Télé-université, Canada)
- **Yen, Jia-Yush**
(Deputy Secretary General, Institute of Engineering Education Taiwan)
- **Yen, Max**
(Director, Southern Illinois University Carbondale, USA)



ICEER-2005 Session Topics

1. Assessment of Curriculum Design and Student Learning in Engineering Education (1) ~ (2)
2. International Engineering Education Accreditation (+WI1)
3. New development in Engineering Education (1) ~ (3)
4. Engineering-Education Collaboration (1) ~ (2)
5. Nano-technology
6. Combination of Classroom and Distance Education
7. e-Learning (1) ~ (2)
8. Project-Based Learning (1) ~ (2)
9. Government Policy Issues and Disaster Prevention
10. Innovative Programs for Communication Engineering Education
11. Industrial collaboration
12. Information Technology

Abstracts submitted: 230

Abstracts accepted: 216

Papers accepted: 168

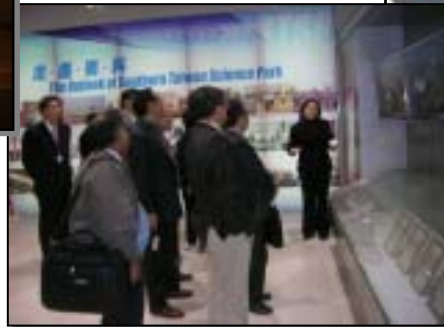


Statistics of participants

Country	Amount	Country	Amount
Australia	6	Norway	3
Canada	2	Pakistan	1
Cyprus	1	Poland	1
Czech Republic	4	Portugal	2
Denmark	1	Russia	2
Finland	2	Slovak Republic	1
Germany	2	Spain	2
Hong Kong	1	Switzerland	2
India	2	Taiwan	78
Ireland	2	Thailand	2
Japan	3	UK	4
Jordan	1	USA	51
Malaysia	3	Total 25 Countries	179

Technical Tour

- Welcome Address by Dr. Wu, Men-Feng
(Deputy Director General of Southern Taiwan Science Park)
- Speech by Dr. Chu, Cheng-Yi
(Research Fellow, Institute of History and Philology of Academia Sinica)
- Visit :
 - (A) Products Exhibition of STSP and Gallery of Archaeology
 - (B) Tour around STSP
 - (C) Chi Mei Museum

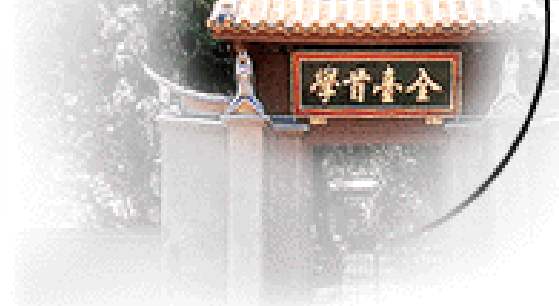


Lab Tour

- Tainan Hydraulics Laboratory
- Aerospace Science and Technology Research Center



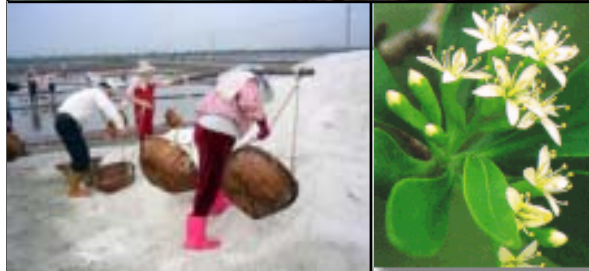
Culture Tour



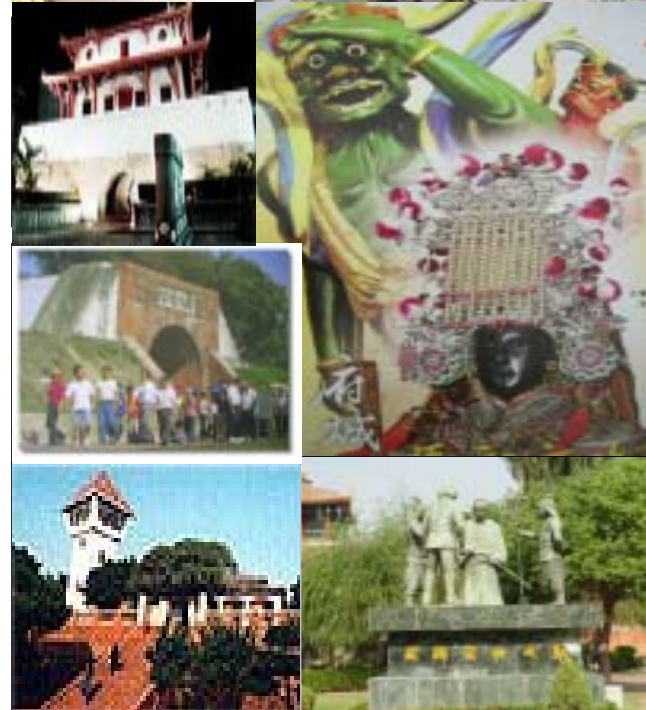
CUISINE



NATURE



HISTORY



Recent Activities in Engineering Education Reform in Taiwan

(A) Accreditation System in Taiwan

- Due to the trend of globalization, the Ministry of Education (MOE) of Taiwan has supported an effort to develop an accreditation system in recent years.
 - **The fall of 2004**
 - the first ever accreditation cycle was launched, and four programs at two universities were accredited.
 - **The spring of 2005**
 - Nine programs are undergoing accreditation process.
- The accreditation system helps to assure the quality of engineering programs in our colleges and universities.
- It is a mechanism through which Taiwan's engineering education can be aligned with the international community.

Recent Activities in Engineering Education Reform in Taiwan

(B) International Exchanges of Elites

- A new project will be launched to promote international exchanges of students and faculty members.
- This project will devote resources to bring foreign experts to travel and give lectures at universities in Taiwan.
- Accept applications from foreign students to come for short-term study. The primary goal is to promote Taiwan's engineering programs to the world.

Recent Activities in Engineering Education Reform in Taiwan

(C)A platform of science and technology policies

- The third initiative is to create a platform for coordinating and integrating science and technology policies which are being carried out by different government agencies.
- With the new platform, government policies can be better coordinated and implemented.
- It will serve as a counsel to governments on important science and technology policies.



THANK YOU