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附件二：主題演講題目、摘要與綱要。

附件三：論文宣讀題目、摘要與綱要。

一、目的

受邀出席「南加州中華科工學會 40 週年年會」，並主持環境組論文發表，做主題演講 (keynote speech) 一次，論文宣讀一次。主要目的為與工程學專家談生態保育、環境保護論理學與科技之關係。

二、過程

一、大會主題、演講人及其題目

March 30, Saturday (Hilton, LAX) >60 Asian + >100 American speakers/12 sessions upon request

8a to 9:20a **Keynote Speeches (Session-A):** Education and Civilization

Wu, Jin
吳京
H. Fletcher Brown Professor at the University of Delaware
Member, of National Academy of Eng.(US) & Academia Sinica
Former, Minister of Education & President of Cheng-Kung University
Carry Forward Chinese culture in a new epoch of the Chinese people

Ho, Chih-Ming
何志明
Associate Vice Chancellor for Research of UCLA
Ben Rich-Lockheed Martin Professor
Nanotechnology: Its impacts on Research and education

Chang, C. Y.
張俊彥
President & National Chair Professor of Chiao-Tung University
Foreign Associate, National Academy of Engineering (US)
The Leader of Si-soft Program
Si-Soft Program & Pu-yu Program

Zhu, Gaofeng
朱高峰
Vice President of Chinese Engineering Academy
D. President of Post & Telecom Ministry

Economy Development and Engineering Education

12:00n-
2:00p

Keynote Speeches (Session-B): Science and Policy

Tim Fong
方廷昭
President of Hughes Space & Communications (1969/79 -89/ 2000)
Manager, TRW (1979-1989)
Telecom: The Boom, The Bust & Its Future Impact on US

Shi, Dinghuan
石定環
Secretary General, Ministry of Technology & Science
Former Head of Hi & New Technology Dep't

10th 5-year Plan for S&T Development & Relevant Policies for International Cooperation

Lin, Feng-Ching CEO of Institute for Information Industry
林 逢 慶 **Development and Outlook IT Industry**

Dr. Zhou, Ji Wuhan City Mayor
周 濟 Member of Chinese Academy of Engineering
Wuhan City: the Optics Valley

John Chiang Chairman of Equalization Board of CA Government
江 俊 輝 The highest ranked Chinese-American Official of Cal State

Henry Chi Founder of CESASc
戚 文 祥 40 presidents and their times of CESASC

~9p

Asia + America Adventure: a Hitech Musical

Lisa Lu Internationally- renowned Actress, and Producer to act
盧 燕 國際巨星

Wennie Wu Creator of the Hi-tech Musical, PhD of Physics, UC Berkeley
吳慧妮 南加才女

March 31, Sunday
(Hilton, LAX)

8:45a to 9:45a **Keynote Speeches (Session-AA) : Science and Cooperation**

Wang, Kang-Lung Former Chairman of EE Department, UCLA
王 康 隆 Dean of Eng. School, HK University of S&T
Semiconductor Development: Asia versus America

Wei, Che-Ho Professor, Vice President of Chiao-Tung University
魏 哲 和 Chair of Science Council
Science and Technology: Present Status and Future Development

Zhou, Benkuang President of SW Jiaotong University
周 本 寬
Scientific Research Progress of SW Jiaotong University

12n-2p **Keynote Speeches (Session-BB): Science and Cooperation**

King, Hen-Biau Vice-Chair, International Long Term Ecological Research Network
金 恆 鏞
Integration of Five E's for the Big E

二、研討會之架構議程

Architecture of 2002 CESASC Convention Programs

Thursday: March 28		
3:30p-4:45p Welcome Press Conference by Convention		
5:45p-8p Welcome Dinner by Convention + societies eg: JCUAA		
JCUAA: Joint Chinese University Alumni Association		
Friday: March 29		
8:30p-4:45p Tours for Asian Guests		
5:45p-8:30p Welcome Dinner by the Board of CESASC		
Saturday: March 30 symposium: Science & Development		
8a - 9:20a		
K1: General Session: 4 Keynoters on Education & Civilization		
9:30a - 11:50a 3. Divided sessions		
A1: Education	A2: Semiconductors	A3: Job Offers
12n - 2p		
K2: General Session: 3 Keynoters on Science & Policies		
2p - 4:45p 3. Divided sessions		
P1: Transportation	P2: IT & Communication	P3: Government Roles
4:30p-5:30p Asia + America Press Conference		
6p - 11p THE GRAND DINNER BANQUET		
Sunday, March 31 Symposium: Science & Cooperation		
8:45a - 9:45a		
KK1: General Session: 3 Keynoters on Science & Cooperation		
9:30a - 12n 3. Divided sessions		
AA1: Semiconductors	AA2: IT & Comm.	AA3: Optics & Electro-Optics
12:10n - 2p		
KK2: General Session: 4 Keynoters on Science & Cooperation		
2p - 4:45p 3 Divided sessions		
PP1: Environmental	PP2: Biology & Medicine	
5p	***Adjourn***	

心 得

這次研討會之重心為電子工程學高科技現況與未來研發創新之專研，為只注重經濟、科技與管理層面，未能考慮科技帶來生態與環境之長程與廣泛的衝擊，故報告人以此為重心報告近五十年來生態與環境受到人類科技集其他活動所遭到之衝擊的巨大，及生物多樣性之減損，呼籲科技介建界健全之「生態學倫理學」。

建 議

積極從事整合型、跨學門之長期生態學研究，以應因環境變遷造成之生態與環境衝擊。

Integration of Five E's for the the Big E

Hen-biau KING

Chair, East Asia-Pacific Regional Long Term Ecological Research Network Coordinating
Committee

The five Es are ecology, economy, engineering, environment, and ethics, which are often treated as independent specialized disciplines. The big E refers to the earth, a unique, very possibly the only, habitable place in the universe and is in danger. Capacity of the Earth to support diverse living species for the last 3.5 billion is rapidly reducing. Its physical environment is degrading and living component is being torn apart. The adverse changes in environment include global warming, ozone depletion, acid precipitation, and pollution of atmosphere, land, and sea, and fragmentation of habitats. Biological diversity, a key to function ecosystem, is being lost at an unprecedented rate. Thus, goods and services provided by natural systems are dwindling. These changes are attributed to the rapid development in material technology, and utilitarian economics in our society, and population growth and exploitation of wildness far exceeds measures undertaking to conserve natural systems. To stop or reduce rates of ecosystem destruction, and restore damaged ecosystems is a huge enterprise. These require appreciating and understanding the processes and functions of a complex earth ecosystem, and designing effective ways of restore environment and maintaining biodiversity. Mending the earth system cannot be accomplished by any single discipline. The five Es, for example, require integrating interdisciplinary collaboration and establishing new ecological ethics with long-term commitments among inhabitants of the earth. The science and technology communities should join with governments and the private sector toward global conservation.

Development of International Networks for Ecological Research

Hen-biau KING
Taiwan Forestry Research Institute
Division of Watershed Management
53 Nan-hai Road, Taipei 100, Taiwan

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The benefits of understanding ecological phenomena and processes to assess and resolve complex environmental issues have been recognized. However, ecological phenomena and processes are complex in nature, in space and time, and many processes may only be understood through inter-disciplinary studies over longer period, broader spatial scales. Uncertain conclusions from short-term and smaller scale ecological research may mislead our understanding of many ecological phenomena and processes, and hence may misguide policymaking and management processes in dealing with challenging ecological issues.

This presentation will focus on our experience in establishing, developing, and integrating collaboration among research networks in an international context with particular emphasis on the East Asia-Pacific region. Mechanisms of sustaining international research networks and locating continuous and secure financial support will be discussed.

Examples will be given to illustrate the initiation, formulation, and implementation of long-term ecological collaborative research among the East Asia-Pacific sites.