

Fall 2011

# Scientific Taiwan



## 科技台灣

### **Professor Horn-Jiunn Sheen**

**沈弘俊** 台灣大學應用力學研究所教授、兼奈米機電系統研究中心主任

*Institute of Applied Mechanics  
National Taiwan University  
Director, NEMS Center*

### **Former Chair Professor Robert Y. Lai**

**賴義雄** 前大同大學講座教授、前國家實驗研究院董事長

*General Education Center  
Tatung University  
Former Chairman, the Board of National Applied Research  
Laboratory*



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# Horn-Jiunn Sheen



- 1987, Stony Brook University, New York, Ph.D, Mechanical Eng.
- 1988~present, Professor, Institute of Applied Mechanics, National Taiwan University ( 國立臺灣大學應用力學研究所教授 )
- 2006~present, Director, Nano-Electro-Mechanical-System (NEMS) Research Center, NTU. ( 國立臺灣大學奈米機電系統研究中心主任 )
- 2007~2008, Director, North Regional Center for Nano-tech Higher Education, ( 教育部顧問室北區奈米科技前瞻人才培育中心主任 )
- 2004-2006, Director, North Regional Center for Nano-tech K-12 Education, ( 教育部顧問室北區奈米科技 K-12 教育發展中心主任 )
- 2002-2004, Director, Center for Teacher Education, National Taiwan University, ( 國立臺灣大學師資培育中心主任 )

## 沈弘俊教授 簡歷

# Robert Y. Lai



## ➤ 學歷

- 1969 Northwestern University( 美國西北大學 )  
Ph.D, Civil Eng. 土木工程 / 流體力學博士
- 1967 Northwestern University( 美國西北大學 )  
M.S. Civil Eng.( 土木工程 / 流體力學碩士
- 1962 National Taiwan University ( 國立台灣大學 ),  
BS, Civil Eng. 土木工程學士

## ➤ 經歷

- 2008-2011 大同大學講座教授
- 2006-2008 國家實驗研究院董事長
- 2003-2006 國家實驗研究院第一屆常務董事
- 1982-2000 美國 TRW 公司資深工程師
- 1983-1996 美國 Catholic University of America  
兼任教授
- 1980-1982 美國約翰霍普金斯大學 ( John Hopkins  
University ) 資深研究員
- 1970-1980 美國威斯康辛大學 ( University of  
Wisconsin-Milwaukee ) 教授
- 1969-1970 美國紐約州立大學巴法羅分校 ( New  
York State University at Buffalo ) 博士後研究員

## 賴義雄教授 簡歷



# Course Schedule

- **Class hours:** Wedn. 3:30 p.m ~ 5:20 p.m
- **Classroom:** IAM building Rm. 111
- **Sign in & sign out:** REQUIRED each time
- **Teaching Assistant:**
  - Mr. Liu , 02-3366-5634, E-mail: Jayoob@hotmail.com

# Course Description

- ✚ This course is specially designed for (a) the students of “**Taiwan Study Program**” ( **台灣研究學程** ), (b) the foreign undergraduate and graduate students, or called “**international students**”, enrolled in National Taiwan University, and (c) the students who are interested in learning the progress of Taiwan technologies. The students can be in *any* major or department.
- ✚ The language used in the class is **English**.
- ✚ This course will introduce many **new technology achievements** in Taiwan industries and research institutes during the past few decades.
- ✚ During each class, one or two technological topics will be introduced and a 30-minute *video* will be used.
- ✚ The students will have one or two **site-visit tours** to several research centers.

# Classes

- Lectures and PowerPoint files will be placed in the web site.

(<https://ceiba.ntu.edu.tw/1001ScientificTaiwan>)

- Video (each about 30 mins.)
- One or more invited lecturers.
- Site-visits to research institutes, e.g. NCREE and Hsin-Chu Science Park.

# Grading Policy

- Lecture attendance **(20%)**
- Class interactions **(10%)**  
*(1 time=3 points, 2 times=5 points, 3 times=6 points...)*
- 6 short reports **(30%)**  
*1-2 pages hand-writing, in English*
- One term report **(10%)**  
*more than 5 pages, in English typing.*
- Midterm and Final exams **(30%)**
- Students' presentation  
*bonus points, each group of up to 3 students.*

# Web Site & Reference

## 1. Course web site:

<http://ceiba.ntu.edu.tw/1001ScientificTaiwan>

## 2. National Applied Research Laboratories (NARL), Scientific Taiwan, Online Videos (DVD), Taipei, NARL, by FTV 95

*國家實驗研究院，科技台灣 -- 新國力，科普電視報導系列 (DVD)，台北：國家實驗研究院，民 95。*





<http://www.narl.org.tw/tw/multimedia/>





THANK YOU

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