

# Annual Report on Activities of National Taipei

## University of Technology Chapter

April 2009 – February 2010



### Chapter Officers:

President: Ching-Wei Yu ([t6659003@ntut.edu.tw](mailto:t6659003@ntut.edu.tw))

Vice-President: Chia-Feng Lin ([t6659005@ntut.edu.tw](mailto:t6659005@ntut.edu.tw))

Secretary: Ching-Ho Tien ([jonath.tien@hotmail.com](mailto:jonath.tien@hotmail.com))

Treasurer: Meng-Jie Lin ([t7658012@ntut.edu.tw](mailto:t7658012@ntut.edu.tw))

Adviser: Yi-Jun Jen ([ijun@ntut.edu.tw](mailto:ijun@ntut.edu.tw))

### Current Student Chapter Members:

Jung Hui Chao
Zhi-Hui Chen
Chia-Feng Lin
Meng-Jie Lin
Ching-Ho Tien
Yu-Hsiung Wang
Ching-Wei Yu
Jeng-Chiang Chen
Wan-Wei Wang
Wen-Pao Tsai

### Chapter Activities:

#### **- Chapter Officer Election (Date: 2009/04/24)**

The SPIE Student Chapter at National Taipei University of Technology (NTUT) was established on April 17, 2009. The meeting for the selection of chapter officers was held on April 24, 2009. Ching-Wei Yu was elected President of the chapter. Chia-Feng Lin was selected as Vice-President.



Electoral procedure for NTUT chapter officer election on April 24, 2009

**- Symposium on Nano-sculptured Optical Thin Films  
(Date: 2009/05/13)**

The SPIE Chapter at National Taipei University of Technology co-organized “Symposium on Nano-sculptured Optical Thin Films” on May 13, 2009. The symposium was held in the 6th Teaching Building in NTUT. Several experts who are famous for their researches in the field of anisotropic thin film optics were invited. The schedule of the symposium is listed below.

9:20-09:50	<b>Registration</b>
9:50-10:00	<b><u>Opening Remark</u></b>
<b>SESSION A, CHAIR: Yi-Jun Jen</b>	
10:00-10:50	<b>Sculptures Thin Film: Nanoengineered Metamaterials</b> <b>Akhlesh Lakhtakia</b> Penn State University
10:50-11:10	<b>Coffee Break</b>
11:10-12:00	<b>Engineering Nanostructured Materials with Geometrically Directed Self Assembly</b> <b>Kevin Robbie</b> Queen’s University
12:00-13:30	<b>Lunch</b>
<b>SESSION B, CHAIR: Motofumi Suzuki</b>	

13:30-14:20	<b>Replication of Bugs' Eyes and Wings, Etc.</b> <b>Akhlesh Lakhtakia</b> Penn State University
14:20-15:10	<b>Nano-structured optical thin films and devices prepared by glancing angle deposition</b> <b>Chang Kwon Hwangbo</b> Inha University
15:10-15:30	<b>Coffee Break</b>
<b>SESSION C, CHAIR: Chang Kwon Hwangbo</b>	
15:30-16:20	<b>Applications of sculptured composite-films</b> <b>Motofumi Suzuki</b> Kyoto University
16:20-17:00	<b>Anisotropic thin films for polarization conversion, surface plasmon resonance and negative refraction</b> <b>Yi-Jun Jen</b> National Taipei Univ. of Technology
17:00-17:30	<b>Closing &amp; Group Photo</b>

The invited speaker, Dr. Lakhtakia, is the first Editor-in-Chief of the online Journal of Nanophotonics published by SPIE since 2007. His current research interests lie in the electromagnetics of complex materials, sculptured thin films and negative refraction. There are **over 100 attendees** participating in the symposium. After the symposium, student members of NTUT Chapter called an additional meeting with Prof. Lakhtakia and then 3 journal papers were published in 2009.



Dr. A. Lakhtakia



International Conference Hall

We are also pleased to invite Dr. Tsu-Tian Lee, President of NTUT, to give us a special lecture during the opening of the symposium .



**Dr. Tsu-Tian Lee**



**Dr. Yi-Jun Jen**



**Dr. Chang Kwon Hwangbo**



**Dr. Motofumi Suzuki**



**Dr. Kevin Robbie**



Group photo

**Financial information:**

Beginning balance: \$0.

Funds obtained from SPIE: \$500.

Funds expended: \$520

Details:

Rent for a conference hall: **\$ 300**

The manual of symposium: **\$220**

Total : **\$ 520**

**End balance \$ -20**

**- Invited Presentations(Date: 2009/12/17)**

Title: Liquid Crystal Displays: Development of Liquid Crystal Displays

Speaker: **Dr. Pochi Yeh** (University of California at Santa Barbara)

Research interest :

Crystal Optics, Photorefractive Nonlinear Optics, Optical Computing,  
Optical Neural Networks, Optical Information Processing.

Honor and Awards :

Photonic Society of Chinese America fellow, 1995.

Fellow of Institute of Electrical and Electronics Engineers IEEE Fellow, 1991.

Rudolf Kingslake Medal and Prize, 1989.

Optical Society of America Fellow, 1988.

Leonardo da Vinci Award, Engineering of the Year 1985.

***The number of attendees: 80***



**NTUT Chapter Group photo with Dr. Pochi Yeh**

**- Invited Presentations(Date: 2010/01/12)**

Title: Liquid Crystal Displays: Development of Liquid Crystal Displays

Speaker: **Dr. Hidenori Mimura** (Director and Professor of Research Institute of Electronics, Shizuoka University)

Research interest :

Imaging Technology

Honor and Awards :

Takayanagi Young Scientist Award 1987

Takayanagi Memorial Award 2009

***The number of attendees: 120***



## 2009 SPIE Student Leadership Workshop & Optics and Photonics Annual Meeting:

Meng-Jie Lin represented NTUT Student Chapter to participate in SPIE Student Leadership Workshop on August 2, 2009. He also attended Optics+Photonics meeting held in San Diego. The SPIE society provides an excellent opportunity for him to communicate with other student members. He appreciates greatly for that.

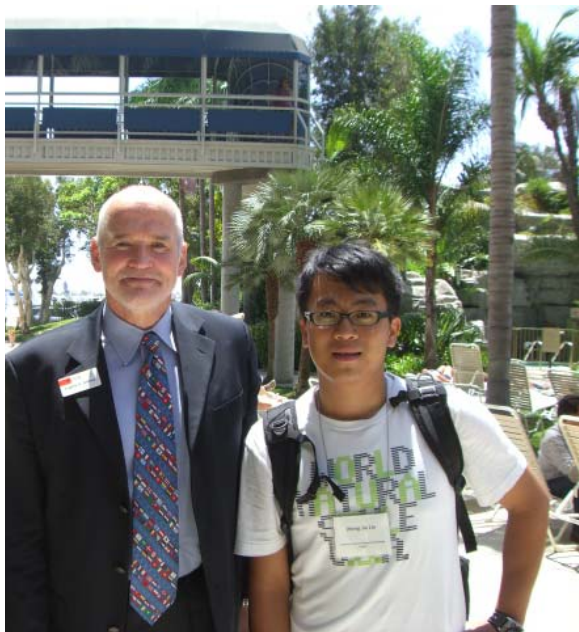


Photo with SPIE CEO



Photo with Japan Women's University  
Chapter



Photo with President of National Taiwan  
University Chapter



Photo of Leadership Workshop

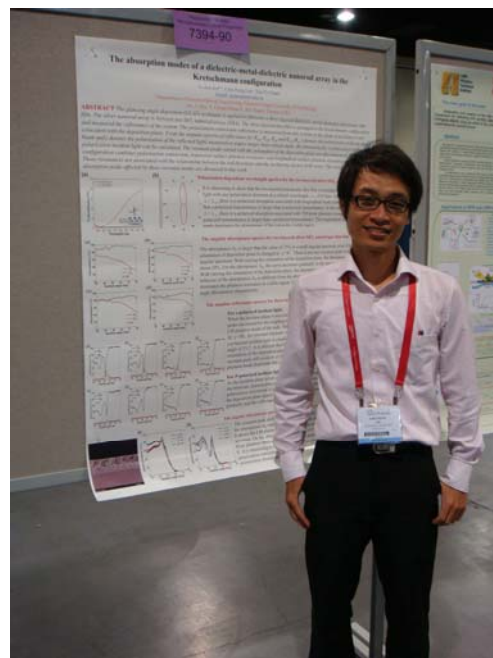
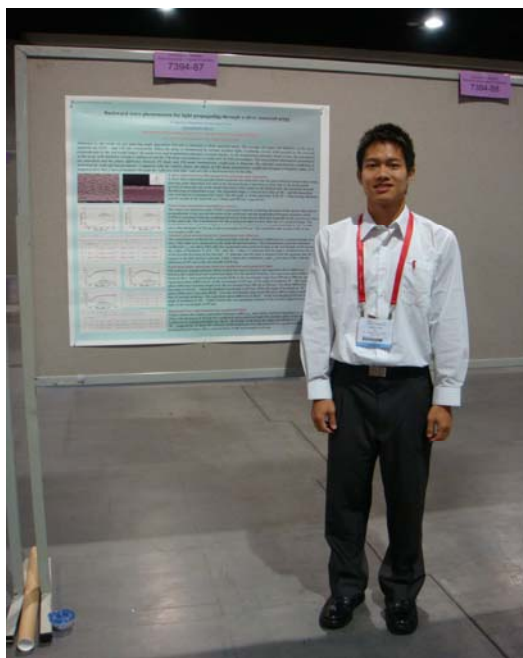


[2009 NTU Student Chapter Exhibition\(date: 2009/08/04-2009/08/6\)](#)



Ching-Wei Yu and Chia-Feng Lin presented their researches during the post section in Optics and Photonics Conference on August 4, 2009.

The titles of the articles: “The absorption modes of a dielectric-metal-dielectric nanorod array in the Kretschmann configuration” and “Backward wave phenomenon for light propagating through a silver nanorod array”



Post section in 2009 Optics and Photonics Conference

### Planned Chapter Activities:

We plans to hold an optics conference in National Taipei University of Technology (NTUT) this year. More than 5 professors who are teaching in ***Shizuoka University*** will be invited. The conference will open the *paper submission* for Japanese students. The students in NTUT are also welcome to participate in the conference. The post exhibition and oral section will be held in *the 6th Teaching Building* in NTUT **on June, 2009.**