



## APEC WORKSHOP

For The Development of LED Lighting Standards and Testing Technology

October.9-10, 2009

# APEC Activities for the Development of LED Lighting Standards and Testing Technology in October 2009 at Chinese Taipei

The 35th EGEE&C Progress Report

Feb. 5, 2010

Instructed by:  
Chinese Taipei



Organized by:  
Chinese Taipei



Sponsored by:  
Chinese Taipei





## APEC WORKSHOP

For The Development of LED Lighting Standards and Testing Technology

October.9-10, 2009

- Instructed by Bureau of Energy, MOEA
- Organized by Industrial Technology Research Institute
- Sponsored by Taiwan External Trade Development Council, TAITRA
- Activities :
  1. Workshop for the Development of LED Lighting Standards and Testing Technology
  2. Exhibition – APEC LED Showroom in TAITRONICS 2009

Instructed by:  
Chinese Taipei



Organized by:  
Chinese Taipei



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October 9-10, 2009

# Purpose of the Workshop

To remove the trade barriers for the development of emerging LED lighting technology. The application of LED lighting technology can reduce the energy consumption in the lighting and make a contribution to the sustainable development of our Earth. This can match the goal set up by the APEC Leader for the energy conservation and carbon deduction.

Instructed by:  
Chinese Taipei



Bureau of Energy,  
Ministry of Economic Affairs

Organized by:  
Chinese Taipei



Sponsored by:  
Chinese Taipei



Taiwan External Trade  
Development Council

## Key Objectives of the Workshop

1. To share the experience in the testing technology for LED lighting modules and fixtures.
2. To exchange the experience in the development of standards for LED lighting products.

## Workshop for the Development of LED Lighting Standards and Testing Technology

- Date : October 9 – 10, 2009
- Venue : Rm.401 Nangang Exhibition Hall, Taipei World Trade Center
- Total participates: 186 persons from 10 economies
- Activities in the workshop (ref. agenda next page)
  - 2 keynote speeches from Chinese Taipei: EER/ITRI, BSMI/MOEA
  - 6 presentations from China, Hong Kong, Japan, South Korea and USA
  - Panel Discussion by all speakers
  - Welcome Dinner (by invitation only)
  - Visiting TAITRONICS 2009

Time	Topic	Speaker
09:30 ~ 09:45	Welcome Remarks	BOE/MOEA, Chinese Taipei
09:45 ~ 10:15	<u>Keynote Speech I</u> The Development of LED Lighting Testing Technology & Facilities in Chinese Taipei	Dr. Robert, Yie-Zu Hu Senior Researcher & Deputy General Director EEL/ITRI, Chinese Taipei
10:15 ~ 10:45	<u>Keynote Speech II</u> The Development of Standards and Testing Platform for LED Lighting	Mr. Shyr-Cherng Wang Deputy Director BSMI/MOEA, Chinese Taipei
10:45 ~ 11:10	Break	
11:10 ~ 11:35	The Latest Development of LED Measurement Techniques and Standards	Prof. Tongsheng. Mou Zhejiang University China
11:35 ~ 12:00	Challenges of Commercialization and Standardization for LED Road Lighting Application	Dr. Ming Lu Director General Lighting Division, LED Program Material and Packaging Technologies Group Hong Kong Applied Science And Technology Research Institute Company Limited
12:00 ~ 13:30	Lunch Break	
13:30 ~ 13:55	LED module Standards for General lighting service in Japan – Update –	Mr. Atsushi Suzuki Chairman of the LED for general lighting service working session on JIS Japan Electric Lamp Manufacturers Association (JELMA)
13:55 ~ 14:20	The Standards Development for the LED Lighting	Dr. Yongick Cho Manager LED Standard Reliability Team Korea Photonics Technology Institute (KOPTI)
14:20 ~ 14:45	Photometry and Colorimetry of LEDs and Solid State Products at NIST	Dr. Yuqin Zong National Institute of Standards and Technology USA
14:45 ~ 15:10	ASSIST Recommends: Metrics for Evaluating LED luminaires	Dr. N. Narendran, Associate Professor Director of Research Lighting Research Center Rensselaer Polytechnic Institute USA
15:10 ~ 15:40	Break	
15:40 ~ 17:00	Panel Discussion	Lead by Dr. Rex Hsiang-Jui Wu SINOCON Industrial Standards Foundation Chinese Taipei
17:00 ~ 17:15	Closing Remarks	EEL/ITRI, Chinese Taipei

# Conclusion of the Workshop

- After the wonderful speeches, presentations and panel discussion of the experts from 6 APEC Economies, the participates from related industry can be more specific understanding of the various economies in the practice of standard-setting process, thereby assisting to reduce with trade barriers between economies. At the same time through the measurement of LED products in the technology of the important factors, assists to develop commercial product in the LED technology.
- Aspire the sooner the better to the establishment of industry standards in APEC-related information exchange platform to assist companies in the industry taking advantage in the market competition through international cooperation.

## Exhibition – APEC LED Showroom in TAITRONICS 2009

- Date: October 8 – 11, 2009
- Venue : 1st. Floor,J118, Area J, Nangang Exhibition Hall, Taipei World Trade Center
- Exhibitors from APEC Member Economies: China, Korea, USA, and Chinese Taipei
- Exhibits: Testing Systems for Color of Light, Systems for Photometer Distribution , LED Products and Posters
- Around 500 visitors totally during the show