

# **3<sup>rd</sup>Lighting Symposium of China, Japan and Korea**

## **PROGRAM**

**September 29, 2010  
COEX, SEOUL, KOREA**



**사단법인 한국조명·전기설비학회**

THE KOREAN INSTITUTE OF ILLUMINATING AND ELECTRICAL INSTALLATION ENGINEERS

# 75년 번개표 빛기술 친환경 LED도 번개표입니다

차세대 친환경조명 LED도 번개표입니다!  
75년간 대한민국 조명산업을 이끌어온  
번개표의 첨단 빛기술,  
아름답고 깨끗한 빛으로  
미래생활과 환경의 쾌적한 변화를  
주도하겠습니다.







## Greetings from Chairperson

On behalf of the Organizing Committees I feel very privileged to welcome all the visitors to 3rd Lighting Symposium of China, Japan and Korea to be held at COEX in Seoul on September 29, 2010. We anticipate fruitful outcomes from the Lighting Symposium, together with the Lighting Fair 2010 opened on September 27 through 29, and the Autumn Conference of the KIIIE on 29.

In succession to the previous ones in Beijing and Sapporo in 2008 and 2009 respectively, this 2010's Seoul Symposium is to be jointly hosted by The Korean Institute of Illuminating and Electrical Installation Engineers(KIIEE), The Chinese Illuminating Engineering Society(CIES), and The Illuminating Engineering Institute of Japan(IEIJ). This event, we believe, will encourage more energetic researches and dedicate to the development of industrial technology.

All of the participants can have access to the lectures by the guest speakers, oral presentations and posters, and the Lighting Fair which 150 lighting businesses are going to join to illustrate the contemporary advances in the Korea's lighting industry. Also every participant is invited on 29 to lunch and dinner, whereat you can enjoy the marvelous combination of the old and the modern in Korean culture and in food as well.

I sincerely hope that you will share the opportunity to make better the future of science, technology and lighting industry by the cooperative efforts of our lighting specialists from China, Japan and Korea.

A handwritten signature in black ink, appearing to read 'Hoon Kim'.

**Hoon Kim**

*Chairperson of Organizing Committees of China, Japan and Korea*

# Organizing Committee of China, Japan and Korea

## KOREA

<b>Hoon Kim</b> /Prof.	Vice President, KIIEE
<b>Dai-Seub Choi</b> /Prof.	Director of International Affairs, KIIEE
<b>An-Seop Choi</b> /Prof.	Director of International Affairs, KIIEE

## CHINA

<b>Yiping Cui</b> /Prof.	Vice President, CIES
<b>Shiping Liu</b> /Mr.	Deputy Secretary of CIES
<b>Nong Li</b> /Prof.	Beijing University of Technology

## JAPAN

<b>Junichi Tsukahara</b> /Mr.	Chairman of National Committee of Japan
<b>Nobuo Matsushita</b> /Mr.	Secretary of National Committee of Japan
<b>Takashi Yamaishi</b> /Mr.	Secretary of National Committee of Japan

## National Committee of Korea

### Chairperson

| **Hoon Kim** (Kangwon National University, Korea)

### Vice Chairperson

| **Dai-Seub Choi** (Seoil University, Korea)

### Secretaries

| **Ok-Hee An** (Yeungnam University, Korea)

| **An-Seop Choi** (Sejong University, Korea)

| **Jae-Man Ryu** (Jung Ho TLC, Korea)

### Members

| **Soon-Ki Kim** (Shinsung University, Korea)

| **Kyung-Ik Min** (Samsung LED, Korea)

| **Seung-Nam Park** (KRISS, Korea)

| **Sang-Bin Song** (Korea Photonics Technology Institute, Korea)

| **Paik-Kyun Shin** (Inha University, Korea)

| **Jae-Sang Chung** (LG Electronics, Korea)

| **Mee-Ryoung Cho** (Korea Institute of Lighting Technology, Korea)

| **Seong-Min Cho** (Sungkyunkwan University, Korea)

| **Jeong-Min Han** (Seoil University, Korea)

| **Yong-Chul Park** (CLARUS KOREA, Korea)

| **Chul-Keun Son** (Deputy Secretary of KIIEE, Korea)

# Session Program

Wednesday, 29 September COEX, Conference Room, #307

08:00 ~ 09:00	<b>Registration</b>	Place : Front of Room, 307
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09:00 ~ 09:15	Opening Ceremony(@5min)			Place
		Title	Speakers	307-B,C
	09:00~09:05	Opening address	President Bok-Hee Lee, KIIIE	
	09:05~09:10	Congratulatory address	President Jinsui Wang, CIES	
	09:10~09:15	Congratulatory address	President Kunihide Tachibana , IEIJ	

09:20 ~ 11:00	Invited Paper(@35min)					Place
			Title	Speakers	Session Chairperson	307-B,C
	09:20~09:55	Inv-1(Korea)	Trends and Status of LED Street Light Engine Development	Kyeongik Min	Ph.D. Seung-Nam Park(KIIEE)	
	09:55~10:30	Inv-2(China)	Dimming Properties of Small-Wattage Ceramic Metal Halide Lamps	Wei Li		
	10:30~11:05	Inv-3(Japan)	Energy Efficient Lighting Utilizing Human Responses to Light	Yoshiki Nakamura		

11:10 ~ 12:00	11:10~12:00	<b>Poster Session(56 papers)</b> (The posters are exhibited until the end of oral session)	Place 307-A
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12:00 ~ 13:00	<b>Lunch(together) : Hankookchon (한국촌)</b>
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13:00 ~ 15:00	Oral Session 1(8papers)					
		No.	Title	Speakers	Session Chairperson	Place
	13:00~13:15	Oral- 1	LED Lighting Technology & Market Expectation	Won-Kuk Son	Prof.&Ph.D. PaikKyun Shin(KIIEE)	307-B,C
	13:15~13:30	Oral- 2	Design of an Intelligent Solar LED Lawn Lamp	Guanying Cao		
	13:30~13:45	Oral- 3	Developed White LED Floodlighting Fixtures with Outdoor Use and Their Characteristics on the Energy Saving Perspective	Keiichiro Kinoshita		
	13:45~14:00	Oral- 4	Temperature Characteristics of High Luminance White LED by Driving Condition	Janghee Yun		
	14:00~14:15	Oral- 5	LED Secondary Optics Design	Jinbo Jiang		
	14:15~14:30	Oral- 6	Study on High-Performance of Street Lighting	Mitsuhiko Takenouchi		
	14:30~14:45	Oral- 7	Propose New Technical Solution for Heat Management of LED Light System	Wan-Ho Jeon		
	14:45~15:00	Oral- 8	Energy Efficiency Standards and Gradually EliminateIncandescent Lamp in China	Yuejin Zhao		

15:00 ~ 15:20	<b>Coffee Break</b>
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15:20 ~ 17:05	Oral Session 2(7papers)					
		No.	Title	Speakers	Session Chairperson	Place
	15:20~15:35	Oral- 9	Ethnic Differences in The Infant's Photoenvironmental Effect on Morningness-Eveningness	Motoharu Takao	Prof.&Ph.D. Jeongduk Ryeom(KIIEE)	307-B,C
	15:35~15:50	Oral- 10	Correction of Self-Screening Effect in Integrating Sphere-Based Measurement of Total Luminous Flux of Large-Area Surface-Emitting Light Sources	Seongchong Park		
	15:50~16:05	Oral- 11	The Pioneer of Green Commercial Lighting-The Development of 35W Low Wattage Quartz Metal Halide Lamp-	Hua Shao		
	16:05~16:20	Oral- 12	Evaluation Method of Visibility by Effect Luminance Considered Individual Visual Ability: The Influence of Age and Visual Acuity on Intraocular Scattering Light	Yoko Ikegami		

# Session Program

15:20 ~ 17:05	16:20~16:35	Oral- 13	Design and Analysis of Double Blind Solar Canopy Illumination System		Yong-Jeon Choi	Prof.&Ph.D. Etsuko Mochizuki (IEU)	307-B,C
	16:35~16:50	Oral- 14	Energy-saving Puzzles for Urban Lighting Planning in China		Nong Li		
	16:50~17:05	Oral- 15	The Effect of Interior Chromaticness on Space Brightness Evaluated by Border Luminance of Color Appearance Mode		Hideki Yamaguchi		
17:05 ~ 17:10		Closing Ceremony					
17:10	17:05~17:10	Closing address	Representative of Organizing Committees		Hoon Kim		
18:00 ~ 21:00	CJK Lighting Symposium Banquet						Textile Center

## Poster Session (56 posters)

\*The posters are exhibited until the end of oral session

	No.	Title	Presenter	Place
11:10 ~ 12:00	Poster 1	Development of 500W RGBY Flood Lighting System Using RGBY LED	Gi-Hoon Kim	307-A
	Poster 2	The Application of LED in China's Urban Lighting	Rong, Haolei	
	Poster 3	Thermal Analysis of a LED Module for Bulb-Shaped LED Lamps	Shuhei Matsuda	
	Poster 4	Design and Evaluation of 80lm/W LED Street Light Engine	Kyeongik Min	
	Poster 5	LED Back Light Illumination System Based on Fresnel Lens	Liu, Qing	
	Poster 6	White LED Lighting with Dimming Control to Illuminate the Station Square and Its Neighboring Road	Kazuki YASUMOTO	
	Poster 7	Case Study on Development of LED Lighting Products Design using Rapid Prototyping Process	Joung Wook Park	
	Poster 8	Application Analysis of Energy Performance Contracting in LED Lighting Projects	Li Desheng	
	Poster 9	Design And Development of a Plant-Response Experimental Light-Source System Prototype with LEDs of Five Peak Wavelengths	Kazuhiro Fujiwara	
	Poster 10	Characteristics Comparison Between LED and CMH lamp	Hyeon-Jin Lee	
	Poster 11	Recent Progress in III-Nitrides-Based LEDs on Silicon Substrates	Zhang, Xiong	
	Poster 12	Development of Increased Safety Type LED Lighting Equipment to be Used in a Hazardous Area	KAWAI Takashi	
	Poster 13	Electro-Optical Properties of LED Flat Light Source in Low Temperature Condition	Jeong Min Han	
	Poster 14	Novel Eu2+-Activated Glass-Ceramic Phosphor For White LED	Ma, Wenbo	
	Poster 15	Development of PLC Control System for LED Canopy Lighting	Eiichi Momma	
	Poster 16	Buck-Boost system for Home LED Lamp	Jung-Ho Hwang	
	Poster 17	Effects of LED Luminaire Install Location on its Photometric Measurement Results	Cao, Fan	
	Poster 18	Brightness Sensitivity of Colored LED Display in Fog Condition	Makoto Fujii	
	Poster 19	Propose New Technical Solution for Heat Management of Led Light System	Dai Seub Choi	
	Poster 20	Bandpass Correction in Spectroradiometry	Li, Qian	
	Poster 21	The Study of Design of LED Lighting installation though Considering of Walking Street Space in Daytime Landscape	Sun Ting	
	Poster 22	Technology Situation Analysis of LED Luminaire by Optical, Electrical Properties Measurement	Gi-Hoon Kim	
	Poster 23	A Pilot Study on Transmission in Fog of White LEDs with Different Correlated Color Temperatures	Li, Linjie	
	Poster 24	Study on The Color Discrimination under LED and Fluorescent Lamps	ISHIGAMI Yuta	
	Poster 25	Development of LED Array Characteristic Measurement System For Developing the Stage Light	Jinpyo Hong	
	Poster 26	Radiation Measurement of Strong Lines in Positive Column of Narrow Bore T2 Low-Pressure Ar-Hg Discharge	Han, Qiuyi	
	Poster 27	A Study of a High-Output Induction Lamp System	Akira Nakajo	
	Poster 28	The Regulations Establishment for LED Lighting Supplies of the Seoul Government Buildings	Dae-Il Seok	

# Session Program

	No.	Title	Presenter	Place
11:10 ~ 12:00	Poster 29	The Current Statue of China's Efficient Lighting Program and Policies	Liu, Hong	307-A
	Poster 30	Ceramic Metal Halide Lamps for Outdoor Lighting	Hijiri Sakuma	
	Poster 31	The Trends of De Facto Standards in LED Lightings	Meeryoung Cho	
	Poster 32	Fast evaluation Method of Eye-Strain by Measuring Accommodation-Response-Time.	Higashi Hirokuni	
	Poster 33	Visibility Evaluation to Road Lighting under Light Sources having Different Color Temperature	Seung-Gyun Jung	
	Poster 34	A Quantificational Study On The Chromatic-Light Emotion And Preference Of Texture In Architectural Landscape Lighting	Niu, Shengnan	
	Poster 35	Just Good Brightness and Effective Use of Daylight and Artificial Lighting in a Living Room	Kunishima, Michiko	
	Poster 36	Visual Guidance for Road Lighting System	Dae-Il Seok	
	Poster 37	Visual Performance of Road Lighting in Mesoptic and LED Lighting Effect Study	Song, Jiayin	
	Poster 38	Brightness Perception Under the Gradually Dimming Light Environment	HARA Naoya	
	Poster 39	A Study on Improvement of Crosswalk Lighting Environment	Min-Wook Lee	
	Poster 40	Visual Performance in a Classroom with Chalkboard Illuminated by Incandescent Lighting and Ambient Lighting Using T5 Fluorescents	Yan, Yonghong	
	Poster 41	Study on Individual Variation in Impression of Lighting Considering Season	Kyoko Ishida	
	Poster 42	Basic Research for Lighting Design in Vessel 1	Jong-Hyuk Na	
	Poster 43	Study on Psychophysical Evaluation of Color Rendering Effect for Landscape Lighting	Ling Ma	
	Poster 44	A study on the Changes in the Visual Perception to the Finishing Materials by Lightings	Ji-Eun Seo	
	Poster 45	Research on The Adaptation to Color Image in Signs with Examinees of Korea, China and Japan	IWATA Michico	
	Poster 46	Actual Conditions on Lighting Environment of Kitchen and Washroom Space in House between China and Korea	Okhee An	
	Poster 47	Outdoor Lighting Design Method Based on The Space Brightness	Mori, Toshihide	
	Poster 48	A Study on Visual Environment Evaluation of an Office Building Using The Useful Daylight Illuminance(UDI) and Daylight Autonomy(DA)	Gyeong Yun	
	Poster 49	Research on The Energy Saving of Office Lighting by Human Detection Control	Honma Mutsuo	
	Poster 50	Analysis on Lightning Characteristic Measured by KEPCO Lightning Detection Network during 2006 to 2009	Joosik Kwak	
	Poster 51	An Analysis of the Metric of Space Brightness and a Study on The Design Method for Its Improvement.	Kenichi Watanabe	
	Poster 52	A Study on the Design and Economic Analysis of Lighting Systems for All-Electrified Houses	Sung-Wook Hwang	
	Poster 53	LED Lighting in Commercial Space in the Future	Takaaki Konishi	
	Poster 54	Measurement on Luminance Distribution within Actual Windows	Etsuko Mochizuki	
	Poster 55	The Effects on the Light Environment by High-Rise Buildings Based on Sky Factor Regulation	Kitada Keiji	
	Poster 56	Global-to-Diffuse Illuminance Conversion Model	Tomoko Iwata	

# Social Program

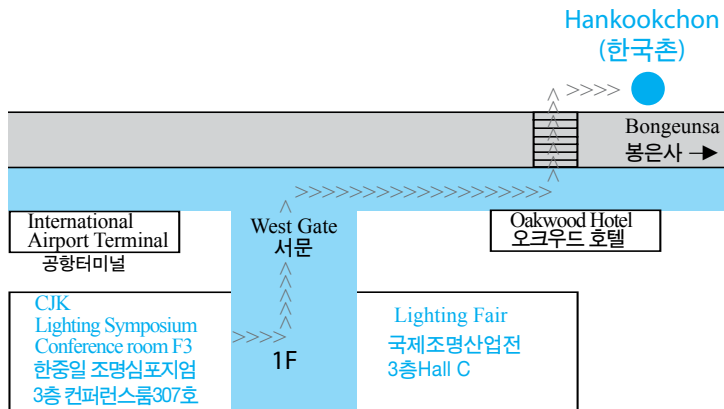
## Dinner for Organization Committees

Tuesday, 28 September 2010, 18:00-20:00

## Lunch for Attendees

Wednesday, 29 September 2010, 12:00-13:00

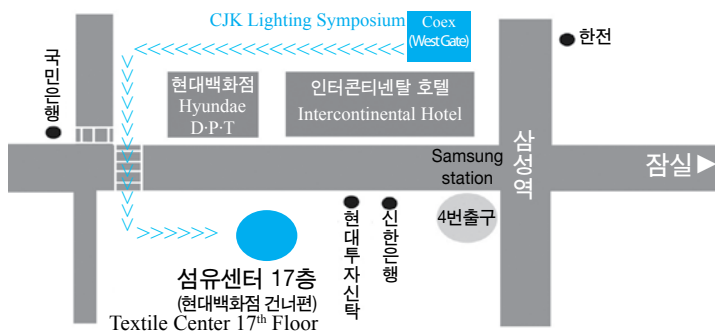
Place : Hankookchon(한국촌)



## Banquet for Attendees

Wednesday, 29 September 2010, 18:00-21:00

Place : Textile Center, 17<sup>th</sup> Floor



## Contact

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대한민국 조명·전기설비학회

THE KOREAN INSTITUTE OF ILLUMINATING AND ELECTRICAL INSTALLATION ENGINEERS





# LIGHTING FAIR 2010

LED/OLED LIGHTING FAIR 2010

September 27<sup>(Mon)</sup> – 29<sup>(Wed)</sup>, 2010

coex Seoul, Korea

Organized by

Korea Institute of Lighting Technology  
The Korean Institute of Illuminating and Electrical Installation Engineers

Managed by

EXPORUM Inc.

Supported by

Ministry of Knowledge Economy, Small and Medium Business Administration  
Seoul Metropolitan Government, Gyeonggi Provincial Government, Bucheon City  
Korean National Committee of CIE, Korea Energy Management Corporation  
Korea Photonics Technology Institute, Korea Lighting Fixture Industry Cooperation  
Korea Illuminating Industry Cooperative, Korea Association of Lighting Designers  
Korea Electrical Contractors Association, Korea Lighting and Utensil Manufacturing Association  
High Efficiency Ballast Manufacturing Association, Korea Advanced Nano Fab Center

Concurrent Event

The Opening & Awards Ceremony of LIGHTING FAIR 2010  
KIIEE Annual Autumn Conference  
LED Design Seminar  
China/Japan/Korea Lighting Symposium

# Venue

\* <http://www.coex.co.kr>

