

CONFERENCE PROGRAM

Lux Pacifica 2013: Cultural Lighting

Wednesday 6th March 2013

14.00 – 18.00	Registration Venue: Queen's Park4
14.00 – 16.00	Roundtable Discussion (Invitation Only) Topic: Light and Culture Forum Venue: Queen's Park4
16.00 – 16.30	Coffee and Tea Break Venue: Queen's Park4
16.30 – 18.30	Lux Pacifica's Executive Board Meeting Venue: Queen's Park4
18.30 – 20.30	Welcome Reception (For Full Conference Registration Only) (Please bring Welcome Reception Coupon along with you) Venue: Swimming Pool Yard Fourth Floor

Thursday 7th March 2013

08.00 – 9.00	Registration Venue: Queen's Park3
09.00 - 09.05	Welcome Speech Mr.Utis CHANCHENCHOP President of TIEA
09.05 - 09.10	Opening Speech Emeritus Professor Warren JULIAN Chair Lux Pacifica
09.10 – 10.30	Keynote Speaker Topic 1: Culture Lighting Mr.Vincent LAGANIER Senior Lighting Application Specialist, Philips Lighting Application Services
10.30 – 10.50	Coffee and Tea Break
10.50 – 12.00	Keynote Speaker Topic 2: Urban Lighting for Water Based Cities Dr.Acharawan CHUTARAT and Dr.Chanyaporn CHUNTAMARA King Mongkut's University of Technology Thonburi, Thailand

12.00 – 13.00	Lunch Venue: Park View Restaurant
13.00 – 14.40	Oral Presentation Place: Queen's Park4 and Queen's Park5
14.40 – 15.00	Coffee and Tea Break Poster Presentation Venue: Queen's Park6
15.00 – 16.40	Oral Presentation Place: Queen's Park4 and Queen's Park5

Friday 8th March 2013

08.00 – 08.45	Registration Venue: Queen's Park3
08.45 - 10.25	Oral Presentation Place: Queen's Park4 and Queen's Park5
10.25 - 10.40	Coffee and Tea Break Poster Presentation Venue: Queen's Park6
10.40 - 12.00	Oral Presentation Place: Queen's Park4 and Queen's Park5
12.00 – 13.00	Lunch Venue: Park View Restaurant
13.00 - 14.40	Oral Presentation Venue: Queen's Park4 and Queen's Park5
14.40 – 15.00	Coffee and Tea Break Poster Presentation Venue: Queen's Park6
15.00 – 16.00	Oral Presentation Venue: Queen's Park4 and Queen's Park5
17.30	Bus Pick Up for Dinner Cruise (For Full Conference Registration Only) <i>(Please Kindly Meet at the Lobby at 17.00 and please bring Farewell Coupon along with you)</i>
19.00 – 21.00	Farewell Reception (Dinner Cruise)
21.30	Return to the Imperial Queen's Park Hotel

SOCIAL FUNCTIONS

Welcome Reception

All full delegates are invited to attend the Welcome Reception. Drinks and cocktail food will be served

Date : Wednesday, 6 March 2013

Time: 18.30-20.30

Venue: Swimming Pool Yard Fourth Floor, Imperial Queen Park Hotel, Bangkok

Cost : included in the registration fees, Ticket are issued upon collecting your registration documents

Farewell Reception

The conference Dinner is traditionally the social highlight of the program. It is a chance to network with peers in a relaxing and enjoyable environment, whilst sampling some delicious cuisine.

Date : Friday, 9 March 2013

Time: 17.30-21.00

Venue: Chao Praya River

Cost : included in the registration fees, Ticket are issued upon collecting your registration documents

TECHNICAL SCHEDULES

Thursday 7th March 2013

Session : Vision and colour

Venue : Queen Park 4

13.00-13.20 **LPT-037** : VISUAL MEDIA AS DISCIPLINE OF LIGHTING DESIGN

Carla WILKINS

13.20-13.40 **LPT-038** : IMPACT OF COLORED LIGHT ON VISUAL INTEREST IN COSMETIC SHOP

Pakaiwan AMORNSIRIWATTANAKUL

13.40-14.00 **LPT-039** : THAI DAYLIGHT GLARE INDEX

Nuanwan TUAYCHAROEN

14.00-14.20 **LPT-040** : COMPARING METRICS FOR RELATIVE SPATIAL BRIGHTNESS UNDER LAMPS OF DIFFERENT SPECTRAL POWER

Steve FOTIOS, Deniz ATLI, and Chris CHEAL

14.20-14.40 **LPT-085** : LIGHTING FOR THAI ELDERLY: AN INVESTIGATION OF VISUAL PERFORMANCE AND DISCOMFORT GLARE

Nuanwan TUAYCHAROEN

Thursday 7th March 2013

Session : Fundamentals of lighting and daylighting

Venue : Queen Park 5

13.00-13.20 **LPT-034** : THE LIGHTING DIALOG

Karsten EHLING and Meike GOESSLING

13.20-13.40 **LPT-101** : TOWARDS BRIGHTNESS DESIGN

Warren JULIAN and Yufang ZHANG

13.40-14.00 **LPT-036** : DAYLIGHTING IN BUILDING THROUGH A VERTICAL LIGHT PIPE IN THAILAND

Yingsawad CHAIYAKUL

14.00-14.20 **LPT-072** : SENSITIVITY OF DAYLIGHT TO BUILDING CHANGES IN A PRECINCT

Adrian CUPITT, Ian COWLING, Gillian ISOARDI and Steve COYNE

14.20-14.40 **LPT-097** : A STUDY OF DAYLIGHT TRANSMISSION THROUGH TUBULAR LIGHT PIPES WITH ANIDOLIC CONCENTRATOR

Thanyalak TAENGCHUM, Surapong CHIRARATTANANON, and Eko COGA

Thursday 7th March 2013

Session : Vision and colour & Energy Efficiency

Venue : Queen Park 4

15.00-15.20 **LPT-006** : IMPROVEMNT OF VISUAL ATTENTION BY BACKGROUND NOISE CONTRAST

Motoharu TAKAO, Takumi UMEMOTO, Koichi KUROKI

15.20-15.40 **LPT-043** : COMPACT FLUORESCENT LAMPS WITH INTEGRATED BALLAST (CFLI): LIFETIME AND ABILITY TO REDUCE GREENHOUSE GAS EMISSIONS

Thavanathan SUJENDAN

15.40-16.00 **LPT-042** : POWER SAVINGS AND OCCUPANT SATISFACTION DUE TO A LIGHTING DEMAND RESPONSE STRATEGY

Benjamin J. BIRT, Guy R. NEWSHAM and Meli STYLIANOU

16.00-16.20 **LPT-076** : MITIGATING EFFECTS OF TRANSPARENT SOLAR HEAT ABSORPTION GLASS ON HEATING AND COOLING LOAD

Zhe CUI, Luoxi HAO and Akio MIZUTANI

16.20-16.40 **LPT-096** : QUALITY CRITERIA OF ROAD LIGHTING FOR MOTOR AND PEDESTRIAN TRAFFIC WITH CONSIDERATION OF ENERGY EFFICIENCY IN THAILAND

Pramoht UNHAVAITHAYA, Chaiya CHAMCHOY, Thavatchai TAYJASANANT, Yodsak UNHAVAITHAYA, Phonphat TEPBOON and Threetarn AMARALIKIT

Thursday 7th March 2013

Session : Fundamentals of lighting and daylighting & Lighting and health

Venue : Queen Park 5

15.00-15.20 **LPT-001** : IMPROVEMENT OF ALL SKY MODEL FOR LUMINANCE AND RADIANCE DISTRIBUTIONS OF SKY

Norio IGAWA

15.20-15.40 **LPT-003** : COMFORTABLE LIGHTING CONDITIONS EVALUATED FROM PSYCHOLOGICAL AND PHYSIOLOGICAL RESPONSES

Naoshi KAKITSUBA

15.40-16.00 **LPT-087** : ENERGY SAVINGS FROM DAYLIGHTING THROUGH SHADED WINDOWS

S. CHIRARATTANANON, D. MATUAMPUNWONG, M.F. BUDIMAN and D.L. CHANDRA

16.00-16.20 **LPT-054** : EFFECTS OF ENVIRONMENTAL LUMINANCE ON WORK PERFORMANCE OF NIGHT SHIFT WORKERS IN AN ELECTRONIC COMPANY

Safial Eqbal ZAKARIA, Siti Zawiah MD. DAWAL, Anita ABD RAHMAN and Ruzaidi KARDI

Friday 8th March 2013

Session : Indoor and outdoor lighting

Venue : Queen Park 4

08.45-09.05 **LPT-046** : THE INFLUENCE OF OBSERVATION DURATION ON THE PEDESTRIANS' FACIAL RECOGNITION ABILITY AT NIGHT

Mengdi DONG, Yaojie SUN, Jingjing Qiu and Yandan LIN

09.05-09.25 **LPT-048** : INFLUENCES OF SUPPORTING STRUCTURES ON ILLUMINATION PERFORMANCES OF LED LENSES

Jae-Suk YANG and Seung Gol LEE

09.25-09.45 **LPT-049** : MALAYSIAN PERSPECTIVE ON ARTIFICIAL AND NATURAL LIGHT TO THE 24 HOURS LIFESTYLE: A LITERATURE REVIEW

Safial Eqbal ZAKARIA, Safial Aqbar ZAKARIA and Anita ABD RAHMAN

09.45-10.05 **LPT-050** : EXPLORING INTERPERSONAL JUDGEMENTS BETWEEN PEDESTRIANS

Steve FOTIOS and Biao YANG

10.05-10.25 **LPT-051** : LIGHTING AND PEDESTRIAN REASSURANCE AT NIGHT TIME

Steve FOTIOS and Jemima UNWIN

Friday 8th March 2013

Session : LEDS and their application & Light measurements

Venue : Queen Park 5

08.45-09.05 **LPT-062** : IS LED READY TO REPLACE CONVENTIONAL LIGHTING?: AN INDIAN APPROACH

Satyabrata CHAKRABORTY

09.05-09.25 **LPT-028** : SECOND-GENERATION LED-ARTIFICIAL SUNLIGHT SOURCE SYSTEM AVAILABLE FOR LIGHT EFFECTS RESEARCH IN BIOLOGICAL AND AGRICULTURAL SCIENCES

Kazuhiro FUJIWARA, Kensuke EIJIMA and Akira YANO

09.25-09.45 **LPT-064** : EFFECTS OF CAMERA WHITE BALANCE SETTING ON LUMINANCE

T.M. CHUNG, R.T.H. NG and H.D. CHEUNG

09.45-10.05 **LPT-065** : A STUDY ON ROADWAY LIGHTING EVALUATION METHOD USING EYE TRACKING SYSTEM

Dong-Hwan JUNG, Sung-Gi CHAE, Jun Her, Yong-Ick CHO and Yoon Chul LEE

10.05-10.25 **LPT-098** : THE REQUIREMENTS TO THE TESTING CENTRE IN CONNECTION WITH ILLUMINATION EVOLUTION

Alexey BARTSEV, Roman BELYAEV and Raisa STOLYAREVSKAYA

Friday 8th March 2013

Session : Indoor and outdoor lighting

Venue : Queen Park 4

10.40-11.00 **LPT-052** : WHAT IS THE RIGHT LIGHT LEVEL FOR RESIDENTIAL ROADS?

Steve FOTIOS, James UTTLEY and Chris CHEAL

11.00-11.20 **LPT-073** : THE IMPACT OF CORRELATED COLOR TEMPERATURE (CCT) OF WHITE LEDS ON ON FACIAL RECOGNITION OF PEDESTRIANS

Xiu Yang, Luoxi Hai and Yi Lin

11.20-11.40 **LPT-013** : THE PREFERENCE OF LIVING ROOM LIGHTING BY LEDS: SCALE MODEL EXPERIMENTS ASSUMING RESIDENTIAL HOUSES

Naoyuki Oi and Hironobu TAKAHASHI

11.40-12.00 **LPT-014** : COMFORTABLE DARKNESS IN LIVING ROOM CONSIDERING LIVING ACTIVITIES

Etsuko MOCHIZUKI, Chieko ISHII, Susumu SUGANO and Sei-ichi KASHIHARA

Friday 8th March 2013

Session : Lighting standards & Others related to lighting

Venue : Queen Park 5

10.40-11.00 **LPT-041** : COLOUR THE NEXT GENERATION OPPORTUNITY FOR LIGHTING QUALITY AND CIRCADIAN WELLNESS

Michael Siminovitch

11.00-11.20 **LPT-067** : OVERVIEW OF ARCHITECTURE FOR CONTROL NETWORKS IN THE LIGHTING CONTROL NETWORKS

Sang-Il Choi, Seok-Joo Koh, Sang-Kyu Lim, Insu Kim and Tae-Gyu KANG

11.20-11.40 **LPT-069** : GUIDANCE FOR APPLICATION OF A NEW MODEL FOR PREDICTING DISTURBANCE OF DISPLAY SCREEN REFLECTIONS

Tharinee RAMASOOT and Steve FOTIOS

11.40-12.00 **LPT-070** : A GLIMPSE OF FENG SHUI IN INDOOR LIGHTING DESIGN IN CHINA

Guoliang CAI

Friday 8th March 2013

Session : Others related to lighting

Venue : Queen Park 4

13.00-13.20 **LPT-084** : THE USER CENTRED LIGHTING DESIGN PROCESS

Monica SATER

13.20-13.40 **LPT-093** : INTRODUCTION TO VIETNAM LIGHTING ASSOCIATION

Minh Mao VU and Duc Chien NGUYEN

13.40-14.00 **LPT-083** : EVALUATION OF LIGHT POLLUTION THROUGH AN INVESTIGATION OF ACTUAL STATE AND DOMESTIC APPLICABILITY OF LIGHT TRESPASS, UPWARD LIGHTING, AND GLARE MANAGEMENT MEASURES

Young-seok SEO, Min-seok OH, Young-jin LEE and Hway-suh KIM

14.00-14.20 **LPT-092** : LED FISHING LIGHT - PERSPECTIVES FOR VIETNAM FISHING COMMUNITIES: A CASE STUDY

Hai Hung LE and Duc Chien NGUYEN

14.20-14.40 **LPT-030** : Influence of Uniformity of Illuminance on Interpersonal Distance

Jun MUNAKATA

Friday 8th March 2013

Session : Light and architecture & Others related to lighting

Venue : Queen Park 5

13.00-13.20 **LPT-055** : DO YOU SPEAK LIGHT?

Meike GOESSLING

13.20-13.40 **LPT-056** : TRAVEL WITH LIGHT

Yeon-WOO CHO

13.40-14.00 **LPT-058** : POETRY OF DAYLIGHT IN ISLAMIC ARCHITECTURE

Hosna TAMLEH and Acharawan CHUTARAT

14.00-14.20 **LPT-031** : DEVELOPMENT OF A METHOD FOR DETERMINING UPWARD FLUX BY CLOUD INFRARED RADIOMETER

Yusuke TSUYUKI, Kenta TSUDA, Toshie IWATA, Daisuke ITO

14.20-14.40 **LPT-032** : AUTOMATED BLIND CONTROL BASED ON PREVENTION OF DISCOMFORT GLARE IN DAYLIT ADVANCED OFFICE

Tomoko TANIGUCHI, Toshie IWATA, Ryohei MASE, Tsuyoshi ITO, Daisuke HIRAI

Friday 8th March 2013

Session : Lighting fixtures, sources of light and control systems

Venue : Queen Park 4

15.00-15.20 **LPT-025** : THERMO-DYNAMICAL EVALUATION ON STABILITY OF IR COATING FOR HIGH EFFICACY HALOGEN LAMP

Makoto BESSHO

15.20-15.40 **LPT-060** : A PRACTICAL VIEW ON PROGRESS OF LED IN STREET LIGHTING APPLICATION

Biswajit SENGGUPTA

Friday 8th March 2013

Session : Lighting design

Venue : Queen Park 5

15.00-15.20 **LPT-059** : LIGHTING DESIGN APPROACHES FOR RIVER-CROSSING BRIDGES

Phanchalath SURİYOTHIN

15.20-15.40 **LPT-077** : THE LIGHTING DESIGN PRACTICE OF BEISHAN ROAD FROM AN URBAN DESIGN PERSPECTIVE

Yi LIN, Luoxi HAO and Xiu YANG

15.40-16.00 **LPT-078** : GUILIN CITY URBAN LIGHTING MASTER PLAN

Luoxi HAO, Haihong GU, Yi LIN, Xiu YANG, Qiyang JIN, Yaodong CHEN, Meng ZHANG and Meiqi FU

LIST OF POSTER SESSION

Thursday 7 March 2013 – Friday 8 March 2013

Venue : Queen Park 6

FUNDAMENTALS OF LIGHTING AND DAYLIGHTING

LPT-002 ESTIMATING OCCURRENCE OF CIE STANDARD GENERAL SKIES FROM SUNSHINE DURATION AND CLOUD COVER

Tomoko IWATA and Noriko UMEMIYA

LPT-075 APPLICATION OF LED MEDIA INTERFACE IN HOSPITAL BUILDING BASED ON VISUAL PSYCHOLOGY ---- PRACTICE OF LIGHTING RENOVATION ON CARDIAC CATHETERIZATION LAB, RADIOLOGY OF SHANGHAI TENTH PEOPLE'S HOSPITAL

Junli XU, Luoxi HAO, Meng ZHANG and Meiqi FU

LPT-100 THE COMBINED EFFECT OF GENDER AND AGE ON PREFERRED ILLUMINANCE AND COLOR TEMPERATURE IN DAILY LIVING ACTIVITIES

Supawan AO-THONGTHIP, Phanchalath SURİYOTHIN and Vorapat INKAROJRIT

INDOOR AND OUTDOOR LIGHTING

LPT-004 POSITION INDEX FOR BLINKING LIGHT

Masaki Sakano, Takashi Irikura, Hiroshi Takahashi and Kazuaki Ooe

LPT-005 STUDY OF ETHNIC DIFFERENCES IN SUBJECTIVE EVALUATION OF INTERIOR LIGHTING

Hiroshi TAKAHASHI, Takashi IRIKURA, and Kosin CHAMNONGTHAI

LPT-007 RGB COLOR LED LIGHTING IMPROVABLE VISUAL ACUITY AND EYESIGHT DAMAGE CAUSED BY PRESBYOPIA

Yuji SAN and Taihua LI

LPT-008 STUDY ON COLOR SENSITIVITY TO LED DISPLAYS FOR THE ELDERLY PEOPLE

Yoshio NAKASHIMA

LPT-099 THE IMPACT OF SHOP SIGN LUMINANCE CONTRAST AND DENSITY OF BACKGROUND LIGHT ON VISUAL SALIENCY: A CASE STUDY IN YAOWARAT ROAD

Suchaya PHUNGSUK, Phanchalath SURİYOTHIN and Vorapat INKAROJRIT

ENERGY EFFICIENCY

LPT-009 METHODS TO INCREASE PERCEIVED BRIGHTNESS IN A SPACE FOR ENERGY SAVING - VERTICAL LIGHTING FIXTURES AND WINDOW SURFACE LUMINANCE CONTROL

Mutsuo HONMA, Yoshiki NAKAMUR and Risa NAKAO

INDOOR AND OUTDOOR LIGHTING

LPT-010 TASK AND AMBIENT LIGHTING -EFFECTIVE LIGHTING METHOD WITH COMBINATION OF VARIOUS ILLUMINANCE DISTRIBUTION

Haruka MARUYAMA and Youko INOUE

LPT-011 COMFORTABLE LIGHTING CONSIDERING VISIBILITY DECREASE WITH AGE

Yuki OE and Youko INOUE

LPT-012 RESIDENTIAL LIGHTING INVESTIGATION AT NIGHT FOR MAINLY THE KANSAI REGION IN JAPAN

Youko INOUE, Masako MIYAMOTO and Michiko KUNISHIMA

LPT-015 EFFECT OF COLOR RENDERING FOR URBAN LANDSCAPE LIGHTING AT NIGHT IN A SNOWY REGION

Jia CHEN

LPT-016 FIELD OBSERVATION ON THE LIGHTING ENVIRONMENTS ON THE STREETS IN HISTORICAL SITES

Kazuo NAGANO and Tetsumi HORIKOSHI

LPT-017 PREFERABLE LIGHTING CONDITIONS FOR MIGRAINEURS IN RELAXATION ROOM

Akari KAGIMOTO, Shino OKUDA, Muneto TATSUMOTO, Katsunori OKAJIMA and Koichi HIRATA

LIGHT AND HEALTH

LTP-018 SUITABLE LIGHTING ENVIRONMENT FROM A VIEWPOINT OF CIRCADIAN RHYTHM

Chieko ISHII and Etsuko MOCHIZUKI

LPT-053 CIRCADIAN RHYTHM AND LIGHTING DESIGN; APPLICATION OF BLUE LIGHT LED IN THE QUEENSLAND CHILDRENS HOSPITAL

Richard MORRISON

LPT-074 IMPACT ON STUDENTS' FATIGUE BY CLASSROOM LIGHTING

Yong-hong YAN, Hai TIAN, Yang GUAN and Mingrui ZHANG

LIGHT AND ARCHITECTURE

- LPT-019 STUDY ON THE GUIDE TECHNIQUE OF BASED ELEMENTS OF ARCHITECTURAL ENVIRONMENT CONSIDER THE ELDERLY— EXPERIMENTAL STUDY ON THE GUIDE EFFECT OF SPACE SITUATION AT CORRIDOR CROSSROAD

Naoto TANAKA, Tomomi OIDA and Wataru HIKOSAKA

- LPT-020 LOUVER ARRANGEMENT STUDIES FOR HUGE LIGHT COURT USING ANNUAL SIMULATION OF DAYLIGHT AND SOLAR RADIATION

Takuro KIKUCHI and Hideki BODA

- LPT-021 PROPOSAL OF INSTRUCTIONAL EQUIPMENT FOR LIGHTING EDUCATION BY USING BUILDING BLOCKS

Jin ISHII

LIGHTING FIXTURES, SOURCES OF LIGHT AND CONTROL SYSTEMS

- LPT-024 *Investigation of Moving Mechanism of Striation Formed in a Fluorescent Lamp*

Yuta FUNAKOSHI, Tomohiro YAMAGUCHI and Yoshio WATANABE

- LPT-079 AN INVESTIGATION ON ARTIFICIAL LIGHTING ENVIRONMENT OF THE LIVING ROOM IN CHINA

Chen YAODONG

LEDS AND THEIR APPLICATION

- LPT-026 OPERATING CIRCUIT FOR LED LAMP BY COCKCROFT-WALTON CIRCUIT

Yuta NAKAMURA, Tomohiro YAMAGUCHI and Yoshio WATANABE

- LPT-027 DEVELOPMENT OF LIGHTING SYSTEM USING WHITE LED FOR ROAD TRAFFIC SIGNS NAMED "FLAT RING"

Kazutaka HONGO, Kentarou HAYASHI, Yoshinori AKINAGA, Masahiro KOUROGI, Makoto MIYAUCHI and Seiichi SERIKAWA

- LPT-029 EVALUATION OF IMAGE QUALITY FOR LED DISPLAY OF ENERGY-SAVING TYPE

Hiroki FUJITA, Yoshio NAKASHIMA, Mamoru TAKAMATSU and Masaaki OOTA

LIGHT MEASUREMENTS

- LPT-066 FLICKER PROPERTIES STUDY OF TRADITIONAL LIGHTING AND SSL

Kuei-NENG WU, Shau-WEI HSU and Cheng-HSIEN CHEN

LIGHTING STANDARDS

LPT-068 THE LED LIGHT ENGINE STANDARD FOR STREET LIGHTING

Meeryoung CHO, Seoksu SONG and Jonghyuk NA

OTHERS RELATED TO LIGHTING

LPT-081 CASE STUDY : EVALUATION OF VARIOUS SUN SHADES BALANCING
DAYLIGHT & HEAT LOAD FOR HOT DRY CLIMATE

Ramisetti SAIRAM and Jaideep KADIRE

LPT-082 FESTIVAL LIGHTING - CULTURAL CONTEXT

Ar. Rohini MANI
