TIMETABLE

All at University Place unless stated otherwise

Colour Key

DAY	WORKSHOP
INVITED TALK	PRESENTED POSTER
ORAL PRESENTATION	POSTER
ORAL PRESENTATION	DIV/TC MEETING
BREAK	SOCIAL EVENT
ROOM / SESSION NO.	OPENING/AWARD/CLOSING CEREMONY

Sunday, June 28

18:00	**Welcome Reception** **MANCHESTER TOWN HALL**	18:00

Monday morning, June 29

08:00	**REGISTRATION**	08:00
09:00	**OPENING CEREMONY** **(CIE President, local organizers, ISC chair)**	09:00
09:25 - 10:05	**Celebrity Paper** (Chair: Ann Webb, GB)	09:25 - 10:05
10:10 - 10:30	**AWARD CEREMONY**	10:10 - 10:30
10:30	**COFFEE BREAK**	10:30
11:00 - 12:15	**Division presentations and discussions** (Chair: Martina Paul, AT)	11:00 - 12:15
12:15	**LUNCH**	12:15

Monday afternoon, June 29

	Theatre B	Theatre A	Room 2.219/2.220	
13:30 - 15:00	OS1 (D1-1) Colour rendition (Chair: Mike Pointer, GB)	OS2 (D3-1) Lighting for life (Chair: Martine Knoop, DE)	OS3 (D6) Photobiology (Chair: Shu Takeshita, JP)	13:30 - 15:00
13:30 - 14:00	**INVITED TALK** **IT01: Françoise Viénot, FR** **CONE FUNDAMENTALS: PAST, PRESENT AND FUTURE**	13:30 - 13:50 **OP04: Thorbjörn Laike, SE** **AMBIENT LIGHTING AS A MEASURE TO IMPROVE WELL-BEING AND PERFORMACE** 13:50 **10 MINUTE BREAK**	**INVITED TALK** **IT02: Tessa Pocock, US** **ADVANCED LIGHTING TECHNOLOGY IN CONTROLLED ENVIRONMENT AGRICULTURE**	13:30 - 14:00
14:00 - 14:20	**OP01: Kevin Smet, BE** **GEOGRAPHICAL EFFECTS ON MEMORY COLORS AND THEIR IMPACT ON COLOR RENDITION EVALUATION**	**OP05: Luc Schlangen, NL** **WORKPLACE ILLUMINATION EFFECTS ON ACUITY, PERFORMANCE AND WELL-BEING IN OLDER AND YOUNG PEOPLE**	**OP08: Liu Gang, CN** **RESEARCH: THE QUANTITATIVE RELATIONSHIP BETWEEN NATURAL LIGHT INTENSITY AND WHOOPER SWAN'S SLEEP BEHAVIOUR**	14:00 - 14:20
14:20 - 14:40	**OP02: Yoshi Ohno, US** **VISION EXPERIMENT ON CHROMA SATURATION FOR COLOR QUALITY PREFERENCE**	**OP06: Mads Dines Petersen, DK** **DETERMINING DAYLIGHT AND VIEW PREFERENCES FROM THE USE OF BLINDS IN APARTMENTS**	**OP09: Maria Amundadottir, CH** **A UNIFIED METHOD FOR EVALUATING NON-VISUAL SPECTRAL EFFECTIVENESS OF OCULAR LIGHT EXPOSURE**	14:20 - 14:40
14:40 - 15:00	**OP03: Ronnier Luo, CN** **TESTING COLOUR RENDERING INDICES USING VISUAL DATA UNDER DIFFERENT LED SOURCES**	**OP07: Mariana Figueiro, US** **LIGHT AND DAYLIGHT IN OFFICE BUILDINGS: IMPACT OF BUILDING DESIGN ON PERSONAL LIGHT EXPOSURES, SLEEP AND MOOD**	**OP10: Anders Thorseth, DK** **GONIOMETRIC CHARACTERIZATION OF LED BASED GREENHOUSE LIGHTING**	14:40 - 15:00
15:00	**COFFEE BREAK**			15:00
15:30 - 16:10	PS1 (D1/D8) Presented Posters (Chair: Po-Chieh Hung, US)	PS2 (D3-1) Presented Posters (Chair: Marc Fontoynont, DK)	PS3 (D4/D5/D6) Presented Posters (Chair: John O'Hagan, GB)	15:30 - 16:10
15:30 - 15:35	PP01 TBD	PP09 Myriam Aries, NL DYNAMIC DAYLIGHT AND INPUT FOR INTELLIGENT (DAY)LIGHTING CONTROL	PP17 Steve Fotios, GB LAMP SPECTRUM DOES NOT AFFECT PEDESTRIANS' JUDGEMENTS OF THE EMOTION OF OTHERS AS CONVEYED BY FACIAL EXPRESSION	15:30 - 15:35
15:35 - 15:40	PP02 Balasz Nagy, BR INFLUENCE OF BLUE AND AMBER AMBIENT ILLUMINATION ON COGNITIVE PERFORMANCE	PP10 John Mardaljevic, GB NEUTRAL DAYLIGHT ILLUMINATION WITH ELECTROCHROMIC GLAZING: SIMULATION OF ANNUAL PROFILES FOR 'LIGHT MIXING'	PP18 TBD	15:35 - 15:40
15:40 - 15:45	PP03 Ching-Ju Chou, TW STUDY THE COLOUR FIDELITY QUALITY OF LED SOURCES	PP11 Eleonora Brembilla, GB THE EFFECT OF THE ANALYSIS GRID SETTINGS ON DAYLIGHT SIMULATIONS WITH CLIMATE-BASED DAYLIGHT MODELLING	PP19 Andreas Walkling, DE NEW TI-FORMULA FOR A MORE PRECISE MEASURE OF PHYSIOLOGICAL GLARE DUE TO ROAD LIGHTING	15:40 - 15:45
15:45 - 15:50	PP04 Ayako Tsukitani, JP AN EXPERIMENTAL STUDY OF COLOUR RENDERING: COMPARISON BETWEEN SUBJECTIVE AND CALCULATED COLOUR DIFFERENCES OF TEST COLOUR SAMPLES	PP12 Tao Luo, CN SKY LUMINANCE AND SPECTRUM DISTRIBUTION IN BEIJING	PP20 Axel Stockmar, DE EXTENSION OF THE LUMINANCE CONCEPT IN ROAD AND TUNNEL LIGHTING	15:45 - 15:50
15:50 - 15:55	PP05 Yandan Lin, CN OBJECT-BASED COLOR PREFERENCE AND THE IMPORTANCE OF DEVELOPING SPECIAL COLOR RENDITION INDICES	PP13 Guillaume Tourasse, FR LONG TERM MEASUREMENTS OF SKY SPECTRAL IRRADIANCES AND VALIDATION OF CIE DAYLIGHT ILLUMINANTS	PP21 Cyril Chain, FR AIRPLANE OBSERVATIONS AT NIGHTTIME FOR A SUSTAINABLE URBAN LIGHTING	15:50 - 15:55
15:55 - 16:00	PP06 Aurelien David, US OPTIMIZED SET OF REFLECTANCE SAMPLES FOR COLOR RENDITION METRICS	PP14 Dominique Dumortier, FR CLIMATE BASED DAYLIGHT ANALYSIS IN THE CLOUD	PP22 Leyla Dokuzer-Öztürk, TR AN INVESTIGATION ON THE USE OF COLOURED LIGHT IN FACADE LIGHTING	15:55 - 16:00
16:00 - 16:05	PP07 Nana Itoh, JP VISIBILITY OF INDICATOR LAMPS FOR OLDER ADULTS AND LOW VISION PEOPLE	PP15 Nozomu Yoshizawa, JP A COMPARISON STUDY ON SPATIAL BRIGHTNESS EVALUATION BETWEEN DIFFERENT CULTURAL GROUPS	PP23 Pierre Boulenguez, FR PHOTOBIOLOGY – PRESENTATION OF A BLUE LIGHT HAZARD IN VIVO EXPERIMENT ON THE RAT	16:00 - 16:05
16:05 - 16:10	PP08 Daniel Englisch, DE SPECTRAL SENSITIVITY IN THE MESOPIC RANGE FOR OBJECTS IN THE PERIPHERY	PP16 John Stocks, GB A DISCUSSION ON THE IMPACT OF INTERIORS ON THE COLOUR QUALITY OF LIGHT	PP24 Etsuko Mochizuki, JP CIRCADIAN EFFECTS OF LIGHT EXPOSURE PATTERN CONSIDERING DAYLIGHT FROM WINDOW	16:05 - 16:10
16:10 - 17:40	Poster Session (PO1)			16:10 - 17:40

Tuesday morning, June 30

	Theatre B	Theatre A	Room 2.219/2.220	
09:00 - 10:50	OS4 (D2-1) Advanced characterization of measurement devices (Chair: Tony Bergen, AU)	OS5 (D3-2) Visual perception in interior lighting (Chair: Jennifer Veitch, CA)	OS6 (D4-1) Road lighting (1) (Chair: Yandan Lin, CN)	09:00 - 10:50
09:00 - 09:30	**INVITED TALK** **IT03: Takashi Usuda, JP** **CCPR ACTIVITIES AND THE CIPM MRA**	**INVITED TALK** **IT04: Arnold Wilkins, GB** **SPATIAL AND TEMPORAL PATTERN DISCOMFORT**	**INVITED TALK** **IT05: Geoff Draper, GB** **GLARE COMPLAINTS THEIR IMPACT UPON THE REGULATION OF AUTOMOTIVE LIGHTING**	09:00 - 09:30
09:30 - 09:50	**OP11: Hiroshi Shitomi, JP** **POTENTIAL EFFECT ON THE DIFFERENCE IN EVALUATING CONDITION FOR UV AND IR INDEX OF PHOTOMETERS ACCORDING TO ISO/CIE 19476**	**OP15: Hanui Yu, JP** **EFFECT OF LIGHT COLOUR ON SPATIAL BRIGHTNESS**	**OP19: Miyoshi Ayama, JP** **DISCOMFORT GLARE OF LED STREET LIGHTS WITH DIFFERENT CORRELATED COLOR TEMPERATURES**	09:30 - 09:50
09:50 - 10:10	**OP12: Richard Young, DE** **THE RELATIONSHIP BETWEEN MEASUREMENT ERROR AND PHOTOMETER COSINE RESPONSE PERFORMANCE INDEX**	**OP16: James Sullivan, NZ** **PREDICTING BRIGHTNESS IN MORE COMPLEX ENVIRONMENTS: APPLYING THE HAUBNER EQUATION**	**OP20: Vincent Boucher, FR** **DISABILITY GLARE EVALUATION IN DRIVING CONDITION USING HIGH DYNAMIC RANGE IMAGES**	09:50 - 10:10
10:10 - 10:30	**OP13: Franko Schmähling, DE** **VIRTUAL EXPERIMENTS FOR PHOTOMETRIC AND RADIOMETRIC MEASUREMENTS**	**OP17: Jun Munakata, JP** **PERCEPTION OF ILLUMINANCE SIMULTANEOUS CHANGE OF TASK AND AMBIENT LIGHTING**	**OP21: Steve Fotios, GB** **LIGHTING FOR CYCLING: DETECTING ROAD SURFACE HAZARDS**	10:10 - 10:30
10:30 - 10:50	**OP14: Yanfei Wang, CN** **AN IMPROVED APPROACH FOR ARRAY SPECTRORADIOMETERS BANDPASS CORRECTION BASED ON DIFFERENTIAL QUADRATURE METHOD**	**OP18: Ronnier Luo, CN** **ASSESSMENTS OF WHITE PERCEPTION IN A REAL LIT ROOM**	**OP22: Jakob Munkgaard Andersen, DK** **FACILITY TO EVALUATE STREET LIGHTING SOLUTIONS IN A REALISTIC URBAN SETTING**	10:30 - 10:50
10:50	**COFFEE BREAK**			10:50
11:10 - 12:40	WS1: Seminar COLOUR QUALITY OF LED LIGHTING Conveners: Ronnier Luo, CN; Tran Quoc Khanh, DE Presentations in WS1: OP74: Peter Bodrogi, DE INTERCULTURAL COLOUR TEMPERATURE PREFERENCE OF CHINESE AND EUROPEAN SUBJECTS LIVING IN GERMANY OP75: Ferenc Szabó, HU HUMAN CENTRIC INTELLIGENT LIGHTING FOR MUSEUM APPLICATIONS	WS2: Seminar ASSESSING LIGHTING METRICS Conveners:Peter Boyce, GB; Jennifer Veitch, CA	WS3: Seminar ADAPTIVE LIGHTING AND VISIBILITY Convener: Ron Gibbons, US	11:10 - 12:40
12:40	**LUNCH**			12:40

Tuesday afternoon, June 30

14:00 - 18:30	**DIV/TC meetings**	14:00 - 18:30

Wednesday morning, July 01

	Theatre B	Theatre A	Room 2.219/2.220	
09:00 - 10:40	OS7 (D1-2) Colour science (Chair: Miyoshi Ayama, JP)	OS8 (D3-3) Luminance distribution (Chair: Naomi Miller, US)	OS9 (D4-2) Road lighting (2) (Chair: Dionyz Gasparovsky, SK)	09:00 - 10:40
09:00 - 09:20	**OP23: Karin Bieske, DE** **INVESTIGATION OF LUMINOUS COLOUR DIFFERENCES WITHIN AND BETWEEN LUMINAIRES**	**OP28: Raphael Kirsch, DE** **LUMINANCE DISTRIBUTIONS AND VISUAL APPEARANCE IN OFFICES**	**OP33: Ronald Gibbons, US** **APPLICABILITY OF MESOPIC FACTORS TO THE DRIVING TASK**	09:00 - 09:20
09:20 - 09:40	**OP24: Martijn Withouck, BE** **TOWARDS A NEW COLOUR APPEARANCE MODEL FOR UNRELATED COLOURS**	**OP29: Tse Ming Chung, HK** **OFFICE LIGHTING ASSESSMENT: UNDERLYING PROBLEMS AND FEASIBILITY OF EXISTING LIGHTING METRICS**	**OP34: Tatsukiyo Uchida, JP** **ADAPTATION LUMINANCE SIMULATION FOR CIE MESOPIC PHOTOMETRY SYSTEM IMPLEMENTATION**	09:20 - 09:40
09:40 - 10:00	**OP25: Li-Chen Ou, TW** **FEASIBILITY OF A UNIVERSAL MODEL FOR COLOUR HARMONY**	**OP30: Adrie de Vries, NL** **WALL ILLUMINATION - BEYOND ROOM APPRAISAL**	**OP35: Steve Fotios, GB** **HOW MUCH LIGHT DO WE NEED TO JUDGE ANOTHER PERSONS' INTENTIONS?**	09:40 - 10:00
10:00 - 10:20	**OP26: Muhammad Safdar, CN** **USING DIGITAL RGB CAMERA TO MEASURE ROOM APPEARANCE**	**OP31: Biao Yang, GB** **GAZE ALLOCATION OF PEDESTRIANS WALKING IN CORRIDORS WITH DIFFERENT LIGHTING LEVELS AND DYNAMIC LED VISUAL AIDS**	**OP36: Maria Johansson, SE** **PERCEIVED LIGHTING QUALITIES AND PEDESTRIANS' PERFORMANCE**	10:00 - 10:20
10:20 - 10:40	**OP27: Jumpei Mitsuhashi, JP** **THE APPEARANCE OF PAINTINGS AND COLOUR CHARTS UNDER WHITE LEDS WITH HIGH COLOUR RENDERING**	**OP32: Claudia Moscoso, NO** **FROM WINDOWS TO DAYLIGHTING SYSTEMS: HOW DAYLIGHT AFFECTS THE AESTHETIC PERCEPTION OF ARCHITECTURE**	**OP37: Jemima Unwin, GB** **THE EFFECT OF STREET LIGHTING ON PEDESTRIANS' PERCEPTIONS OF SAFETY IN RESIDENTIAL ENVIRONMENTS**	10:20 - 10:40
10:40	**COFFEE BREAK**			10:40
11:10 - 12:30	OS10 (D2-2) Characterization of the optical and visual properties of materials (Chair: Joanne Zwinkels, CA)	OS11 (D3-4) Glare (Chair: Werner Osterhaus, DK)	OS12 (D5) Outdoor lighting and the environment (Chair: Nigel Parry, GB)	11:10 - 12:30
11:10 - 11:30	**OP38: Guillaume Ged, FR** **CHARACTERIZATIONS OF SPECULAR PEAKS FROM A METROLOGICAL GLOSS SCALE**	**OP42: Mandana Sarey Khanie, CH** **GAZE-DRIVEN APPROACH FOR ESTIMATING LUMINANCE VALUES IN THE FIELD OF VIEW FOR DISCOMFORT GLARE ASSESSMENTS**	**OP46: Cyril Chain, FR** **EVALUATION OF INDOOR LIGHTING SITUATIONS IN PUBLIC ACCESS BUILDINGS AND OUTDOOR SITUATIONS IN URBAN ENVIRONMENT AT NIGHT BY VISUALLY IMPAIRED PEOPLE**	11:10 - 11:30
11:30 - 11:50	**OP39: Frederic Leloup, BE** **INVESTIGATION OF THE INTER-INSTRUMENT AGREEMENT OF SPECULAR GLOSSMETERS**	**OP43: Yang Yang, CN** **DISCOMFORT GLARE CAUSED BY NON-UNIFORM WHITE LED MATRICES**	**OP47: Christopher Baddiley, GB** **LIGHT POLLUTION MODELLING FOR THE HIGHWAYS AGENCY NEW ENVIRONMENTAL IMPACT POLICY, FOR A SEA BASED WIND FARM, AND IMPLICATIONS OF RESULTS OF AN AONB DARK SKY SURVEY**	11:30 - 11:50
11:50 - 12:10	**OP40: John Mardaljevic, GB** **ILLUMINANCE-PROXY HIGH DYNAMIC RANGE IMAGING: A NEW WAY TO MEASURE SURFACE REFLECTANCE**	**OP44: Yoshiki Nakamura, JP** **PREDICTION OF DICSOMFORT GLARE OF A NON-UNIFORM LIGHT SOURCE BY USE OF ITS LUMINANCE IMAGE**	**OP48: Diana Del-Negro, GB** **THE INFLUENCE OF LIGHTING ON WAYFINDING IN THE URBAN ENVIRONMENT**	11:50 - 12:10
12:10 - 12:30	**OP41: Alejandro Ferrero, ES** **MEASUREMENT OF GONIOFLUORESCENCE IN PHOTOLUMINISCENT MATERIALS**	**OP45: Leonie Geerdinck, NL** **COMFORT-BRIGHTNESS TWO-AXIS EVALUATION SYSTEM AND GLARE INDEX FOR THREE TARGET SCENES**	**OP49: Mojtaba Navvab, US** **PHOTOMETRIC EVALUATIONS FOR PEDESTRIAN ENVIRONMENTS WITH EMPHASIS ON LIGHT SPECTRUM AT MESOPIC LEVELS**	12:10 - 12:30
12:30	**LUNCH**			12:30

Wednesday afternoon, July 01

14:00 - 15:30	Poster Session (PO2)	14:00 - 15:30
15:30 - 18:30	**DIV/TC meetings**	15:30 - 18:30

19:00	**Gala Dinner - MANCHESTER UNITED FOOTBALL CLUB** (ticketed event)	19:00

Thursday morning, July 02

	Theatre B	Theatre A	Room 2.219/2.220	
09:00 - 10:00	OS13 (D2-3) Near and far field goniophotometry (Chair: Armin Sperling, DE)	OS14 (D3-5) Lighting control (Chair: Peter Dehoff, AT)	OS15 (D1-3) Visual perception (Chair: Youngshin Kwak, KR)	09:00 - 10:00
09:00 - 09:20	**OP50: Tony Bergen, AU** **VALIDATION OF THE USE OF ZERO-LENGTH PHOTOMETRY IN THE GONIOPHOTOMETRY OF SOLID-STATE LIGHTING DEVICES**	**OP53: Wenye Hu, AU** **ILLUMINANCE RESOLUTION AND USABILITY OF INTERACTIVE LIGHTING CONTROL SYSTEMS**	**OP56: Malcolm Nicholson, GB** **APPARENT INTENSITY OF FLASHING LIGHTS**	09:00 - 09:20
09:20 - 09:40	**OP51: Udo Krüger, DE** **ANALYSES OF ERRORS ASSOCIATED WITH PHOTOMETRIC DISTANCE IN GONIOPHOTOMETRY**	**OP54: Toshie Iwata, JP** **A DAYLIGHT RESPONSIVE DIMMING SYSTEMS WITHOUT INDOOR PHOTOSENSOR IN AN OFFICE WITH PGSV-BASED BLIND CONTROL**	**OP57: Mark Rea, US** **SHEDDING LIGHT ON LIGHT AND LIGHTING**	09:20 - 09:40
09:40 - 10:00	**OP52: Roman Dubnicka, SK** **COMPARISON OF FAR-FIELD AND NEAR-FIELD GONIOPHOTOMETRY WITH RESPECT TO THE RESULTS OF LIDC MEASUREMENTS**	**OP55: Katharine Van Someren, GB** **PROMPTING LIGHT SWITCHING BEHAVIOURS IN CORRIDORS AND OFFICES IN A UK UNIVERSITY CAMPUS**	**OP58: Ludovic Gustafsson Coppel, NO** **PERCEPTION OF WHITENESS DIFFERENCE UNDER DIFFERENT ILLUMINATIONS AND BACKGROUNDS**	09:40 - 10:00
10:00	**COFFEE BREAK**			10:00
10:30 - 11:10	PS4 (D2) Presented Posters (Chair: Hiroshi Shitomi, JP)	PS5 (D3-2) Presented Posters (Chair: John Mardaljevic, GB)	PS6 (D4) Presented Posters (Chair: Ron Gibbons, US)	10:30 - 11:10
10:30 - 10:35	PP25 Alejandro Ferrero, ES MEASURING SPARKLE OF EFFECT COATINGS	PP33 Yungkyung Park, KR DAYLIGHT MEMORY COLOUR FOR LIGHTINGS	PP41 Cyril Chain, FR LUMIROUTE : OPTIMISATION OF ROAD SURFACES REFLECTION PROPERTIES AND LIGHTING	10:30 - 10:35
10:35 - 10:40	PP26 Tony Bergen, AU HIGH ACCURACY CALIBRATION AND USE OF POWER ANALYSERS FOR MEASUREMENT OF SOLID STATE LIGHTING DEVICES	PP34 Steve Fotios, GB THE BERMAN BRIGHTNESS EXPERIMENT REPEATED: A DISCUSSION OF METHODOLOGY AND METRICS FOR SPATIAL BRIGHTNESS	PP42 Allan Ruberg, DK RSEARCH PROJECT SHEDS LIGHT ON THE PERFORMANCE OF THE LED TECHNOLOGY IN RELATION TO ROAD LIGHTING	10:35 - 10:40
10:40 - 10:45	PP27 Kathryn Nield, NZ ROOM TEMPERATURE PQED: DYNAMIC RANGE, TEMPERATURE SENSITIVITY AND LINEARITY OF RESPONSE	PP35 Asta Logadottir, DK A CASE STUDY ON OCCUPANT CONTROLLED LIGHTING IN OFFICES	PP43 Haiping Shen, CN FIELD STUDY ON FLICKER EFFECT IN TUNNEL LIGHTING USING LINEAR LIGHT EMITTING DIODE LUMINAIRES	10:40 - 10:45
10:45 - 10:50	PP28 Jianping Wang, CN AN IMPROVED GONIOPHOTOMETER USING CURVED MIRROR	PP36 Tse Ming Chung, HK A NEW METHOD FOR ESTIMATING SAVEABLE LIGHTING ENERGY IN VISUALLY ACCEPTABLE DAYLIT CELLULAR OFFICES IN HONG KONG	PP44 Hayato Ito, JP TUNNEL LIGHTING DESIGN FOR ENERGY SAVING BY THE METHOD OF HIGH UNIFORMITY OF ROAD SURFACE LUMINANCE	10:45 - 10:50
10:50 - 10:55	PP29 Thorsten Gerloff, DE TRACEABLE GONIOPHOTOMETRY ON HIGH-POWER-LEDS AT PTB	PP37 TBD	PP45 John Bullough, US WARNING BEACON CHARACTERISTICS FOR VISIBILITY, GLARE PREVENTION AND CLOSURE DETECTION	10:50 - 10:55
10:55 - 11:00	PP30 Denan Konjhodzic, DE INFLUENCE OF BURNING POSITION ON GONIOSPECTRORADIOMETRIC MEASUREMENTS	PP38 Miki Kozaki, JP BASIC RESEARCH ON THE RELATIONSHIP BETWEEN ILLUMINANCE VALUE AND SPATIAL DISTRIBUTION OF LUMINANCE - EXPLORATORY DATA ANALYSIS USING LIGHTING SIMULATION	PP46 Céline Villa, FR SMART INTENSITY MANAGEMENT OF LED ROAD STUDS	10:55 - 11:00
11:00 - 11:05	PP31 Roman Dubnicka METHODS FOR CORRECTION OF THE LIDC MEASUREMENTS BY MEANS OF GONIOPHOTOMETERS WITH ROTATING LUMINAIRES FOR DIFFERENT LAMPS	PP39 TBD	PP47 Travis Terry, US THE INTERACTION OF OVERHEAD LIGHTING AND VEHICLE HEADLAMPS	11:00 - 11:05
11:05 - 11:10	PP32 Udo Krüger, DE MEASUREMENT UNCERTAINTY OF PHOTOMETRIC MEASUREMENTS CONSIDERING THE REQUIREMENTS OF THE NEW DRAFT INTERNATIONAL STANDARD CIE DIS 025/E:2014	PP40 Dionyz Gasparovsky, SK LUMINANCE DISTRIBUTION AND ILLUMINANCE OF SURFACES AT OFFICE BUILDINGS WITH RESPECT TO THE REQUIREMENTS TO ILLUMINATION OF INTERIOR WORKPLACES	PP48 Kenji Ueda, JP TESTS ON ACTUAL EXPRESSWAY FOR APPLICATION OF PURKINJE PHENOMENON IN ROAD LIGHTING	11:05 - 11:10
11:10 - 12:40	Poster Session (PO3)			11:10 - 12:40
12:40	**LUNCH**			12:40

Thursday afternoon, July 02

14:00 - 18:30	**DIV/TC meetings**	14:00 - 18:30

Friday morning, July 03

	Theatre B	Theatre A	Room 2.219/2.220	
09:00 - 10:40	OS16 (D2-4) Characterization of light sources (Chair: Peter Blattner,CH)	OS17 (D3-6) Integrated design (Chair: Barbara Matusiak, NO)	OS18 (D4-3) Road lighting (3) (Chair: Maurice Donners, NL)	09:00 - 10:40
09:00 - 09:20	**OP59: Erkki Ikonen, FI** **ACCURATE MEASUREMENT OF ILLUMINANCE AND LUMINOUS EFFICACY OF WHITE LED LAMPS**	**OP64: Hiroshi Nakayama, JP** **A STUDY ON THE EFFECT OF LED LAMPS ON AIR-CONDITIONING LOAD IN BUSINESS-RELATED BUILDING**	**OP69: Giuseppe Rossi, IT** **ADAPTIVE SYSTEMS IN ROAD LIGHTING INSTALLATIONS**	09:00 - 09:20
09:20 - 09:40	**OP60: Maumita Chakrabarti, DK** **MONTE CARLO ANALYSIS OF MULTICOLOUR LED LIGHT ENGINE**	**OP65: Ling Xia, NL** **SIMULTANEOUS MEASUREMENT AND VISUALISATION OF LIGHT FLOW AND DIFFUSENESS IN 3D SPACE**	**OP70: Kenneth Jonsson, SE** **TRAFFIC COMPENSATED LUMINANCE ESTIMATION**	09:20 - 09:40
09:40 - 10:00	**OP61: Tobias Porsch, DE** **MEASUREMENT OF THE UNIFIED GLARE RATING (UGR) BASED ON USING ILMD**	**OP66: Martine Knoop, DE** **METHODOLOGY TO CREATE SPECTRAL SKY MODELS TO ENABLE THE INCLUSION OF COLORIMETRIC CHARACTERISTICS OF DAYLIGHT IN RESEARCH AND DESIGN**	**OP71: Roland Brémond, FR** **COMPARISON BETWEEN OPTICAL AND COMPUTER VISION ESTIMATES OF VISIBILITY IN DAYTIME FOG**	09:40 - 10:00
10:00 - 1020	**OP62: Valery Ann Jacobs, BE** **SPECTRAL RAY FILES OF LIGHT SOURCES USING PRINCIPAL COMPONENT ANALYSIS**	**OP67: Manolis Patriarche, FR** **ILLUMINANCE MEASUREMENTS IN AN URBAN CANYON SCALE MODEL ACCORDING TO ASPECT RATIOS, COATINGS AND SKY TYPES**	**OP72: Rajaram Bhagavathula, US** **A NEW APPROACH TO ANALYZE NIGHTTIME ROADWAY VISIBILITY THROUGH DISTRIBUTION ANALYSIS OF DETECTION DISTANCES**	10:00 - 1020
10:20 - 10:40	**OP63: Yuqin Zong, US** **DEVELOPMENT OF A NEW SPHERE-GONIOPHOTOMETER METHOD**	**OP68: John Mardaljevic, GB** **THE SUN EXPOSURE INDEX: A NEW METRIC TO QUANTIFY THE SUNLIGHT POTENTIAL OF ARBITRARILY COMPLEX BUILDING APERTURES**	**OP73: Cyril Chain, FR** **EVALUATION OF VISUAL TROUBLES DUE TO LUMINOUS ADVERTIZINGS IN URBAN AREAS**	10:20 - 10:40
10:40	**COFFEE BREAK**			10:40
11:10 - 12:40	WS4: Workshop CIE ILLUMINANT L (LED): PROS, CONS AND CHALLENGES Convener: Peter Blattner, CH Presentation in WS4: OP76: Tuomas Poikonen, FI TOWARDS LED-BASED PHOTOMETRIC STANDARDS	WS5: Seminar LIGHTING FOR LIFE Conveners:Jennifer Veitch,CA;John O'Hagan,GB	WS6: Workshop COLOUR IMAGING REPRODUCTION FOR 3D PRINTING Convener: Kaida Xiao, GB	11:10 - 12:40
12:40	**CLOSING CEREMONY**			12:40
12:50	**LUNCH / FAREWELL RECEPTION** **Marquee in Alan Gilbert Square**			12:50

Friday afternoon, July 03

15:00 - 18:30	**DIV/TC meetings**	15:00 - 18:30

Saturday morning, July 04

09:00 - 12:30	**DIV/TC meetings**	09:00 - 12:30
12:30	**LUNCH**	12:30

POSTERS

PO1 (Monday, 16:10-17:40)

PO1-02 Balasz Nagy, BR	INFLUENCE OF BLUE AND AMBER AMBIENT ILLUMINATION ON COGNITIVE PERFORMANCE
PO1-03 Daniel Englisch, DE	SPECTRAL SENSITIVITY IN THE MESOPIC RANGE FOR OBJECTS IN THE PERIPHERY
PO1-04 Hiroshi Takahashi, JP	FUNCTIONAL VISUAL FIELD IN USING A PORTABLE TOUCH-SCREEN DEVICE
PO1-05 Sophie Jost, FR	EFFECT OF METAMERIC ILLUMINATIONS ON PUPIL RESPONSE AND VISUAL PERCEPTION
PO1-06 Yuki Kawashima, JP	WHAT FACTORS DETERMINE LUMINANCE UNIFORMITY PERCEPTION? – TOWARDS THE EVALUATION OF OLED PANELS
PO1-07 Ching-Ju Chou, TW	STUDY THE COLOUR FIDELITY QUALITY OF LED SOURCES
PO1-08 Ayako Tsukitani, JP	AN EXPERIMENTAL STUDY OF COLOUR RENDERING: COMPARISON BETWEEN SUBJECTIVE AND CALCULATED COLOUR DIFFERENCES OF TEST COLOUR SAMPLES
PO1-09 Yandan Lin, CN	OBJECT-BASED COLOR PREFERENCE AND THE IMPORTANCE OF DEVELOPING SPECIAL COLOR RENDITION INDICES
PO1-10 Yandan Lin, CN	INTERCULTURAL COLOR TEMPERATURE PREFERENCE (2300 K - 5800 K) OF CHINESE AND EUROPEAN SUBJECTS FOR WHITE OBJECTS
PO1-11 Laura Bellia, IT	EVALUATION OF THE IMPACT OF THE ENVIRONMENT ON COLOUR QUALITY
PO1-12 Ronnier Luo, CN	MONITOR REPRODUCTION OF OIL PAINTINGS UNDER MUSEUM LED LIGHTING USING CIECAM02
PO1-13 Robert Hirschler, BR	INVESTIGATING THE PERFORMANCE OF THE CIE COLOR RENDERING INDEX FOR LOW ENERGY DAYLIGHT SIMULATORS
PO1-14 Aurelien David, US	OPTIMIZED SET OF REFLECTANCE SAMPLES FOR COLOR RENDITION METRICS
PO1-15 Roman Dubnicka, SK	IMPACT OF LED BLUE AND VIOLET PUMPS AND PHOSPHOR EMISSION SPECTRA ON COLOUR RENDERING OF LIGHT SOURCES
PO1-16 Monica Billger, SE	AN ASSESSMENT METHOD FOR EVALUATING COLOR RENDERING PROPERTIES OF LIGHT SOURCES
PO1-17 Takayoshi Fuchida, JP	DEVELOPMENT OF THE NEW CALCULATION METHOD OF COLOUR RENDERING PROPERTIES TAKING ACCOUNT OF ILLUMINANCE
PO1-18 Pedro Pardo, ES	ASSESSING CIE COLOR RENDERING INDEX UNCERTAINTY USING A RANDOM TEST-COLOUR METHOD
PO1-19 Tushar Chauhan, GB	DISCRIMINATION THRESHOLDS FOR SKIN IMAGES
PO1-20 Kaida Xiao, GB	INVESTIGATION OF UNCERTAINTY OF SKIN COLOUR MEASURMENT
PO1-21 Makio Akimoto, JP	SKIN COLOR MEASUREMENTS FOR DERMATOLOGICAL TREATMENT BASED ON CIE UNIFORM COLOR SPACES
PO1-22 Chao-Hua Wen, TW	MEASURING THE FLICKER NUISANCE DURING PLAYING VIDEO ON RGB LED LARGE-FORMAT DISPLAYS
PO1-23 Craig Revie, GB	IN SEARCH OF COMMON COLOUR APPEARANCE
PO1-24 Kazim Hilmi Or, TR	SOME REASONS FOR THE DIVERSITIES IN EYE WITNESS TESTIMONIES (VISUAL PERCEPTON AND COLOUR VISION)
PO1-25 Kazim Hilmi Or, TR	WHY DOES GLARE NOT CONSIST IN ALL GAZE DIRECTIONS AND ANGLES?
PO1-26 Ágnes Urbin, HU	COLOUR VISION UNDER DIFFERENT STATES OF ADAPTATION
PO1-27 Ágnes Urbin, HU	MEASUREMENT OF DIRECT AND CONSENSUAL LIGHT REFLEX
PO1-28 Dionyz Gasparovsky, SK	EDUCATION OF LIGHTING TECHNOLOGY IN SLOVAKIA AND CZECH REPUBLIC
PO1-29 Kyota Morimoto, JP	A PRACTICAL TOOL TO EVALUATE MESOPIC LUMINANCE DISTRIBUTIONS FOR NIGHT-TIME ROADWAYS BASED ON THE CIE MESOPIC PHOTOMETRY
PO1-30 Yukio Akashi, JP	HOW MUCH MORE ILLUMINANCE IS NEEDED FOR OLDER PEOPLE THAN YOUNG PEOPLE TO PERFORM PHOTOPIC TASKS?
PO1-31 Nana Itoh, JP	VISIBILITY OF INDICATOR LAMPS FOR OLDER ADULTS AND LOW VISION PEOPLE
PO1-32 Peter Dehoff, AT	MORE LIGHT!
PO1-33 En Yu Liu, CN	ANOMALOUS COLOUR VISION AND SIMULATE
PO1-34 En Yu Liu, CN	STANDARD TRICOLOR DYE SYSTEM
PO1-35 Ichiro Katayama, JP	PERFORMANCE COMPARISON OF VARIOUS WHITENESS FORMULAS BASED ON VISUAL EVALUATION EXPERIMENTS
PO1-36 Takashi Sakamoto, JP	COLOUR COORDINATES ANALYSIS OF COLOUR-BLIND CORRECTIVE ILLUMINATIONS BY USING PANEL D-15 AND ISHIHARA TESTS
PO1-37 Yusuke Iida, JP	A NOVEL METRIC TO EVALUATE THE CLOSENESS OF THE TWO COLOURS
PO1-38 Changjun Li, CN	RECENT PROGRESS IN REPAIRING CIECAM02
PO1-39 Lorne Whitehead, CA	ACCURATE TRANSLATION OF TRISTIMULUS VALUES FROM ONE COLOUR TEMPERATURE TO ANOTHER
PO1-41 Stuart Mucklejohn, GB	UTILIZING THE REFLECTANCE SPECTRA OF MUNSELL COLOUR CHIPS
PO1-42 John Stocks, GB	A DISCUSSION ON THE IMPACT OF INTERIORS ON THE COLOUR QUALITY OF LIGHT

PO1-43	Naoyuki Oi, JP	LIGHTING QUALITY: POSSIBILITY OF LUMINANCE DISTRIBUTION AS ITS DETERMINANT
PO1-44	Calin Ciugudeanu, RO	ENERGY SAVING ASSESSMENT OF THE PASSIVE TUBULAR DAYLIGHT GUIDANCE SYSTEMS FOR ROMANIA
PO1-45	Calin Ciugudeanu, RO	SUSTAINABLE LIGHTING REFURBISHMENT SOLUTIONS: TECHNICAL UNIVERSITY OF CLUJ-NAPOCA CASE
PO1-46	Nozomu Yoshizawa, JP	A COMPARISON STUDY ON SPATIAL BRIGHTNESS EVALUATION BETWEEN DIFFERENT CULTURAL GROUPS
PO1-47	Yoshikane Kojima, JP	LIGHT ENVIRONMENT CONTROL SYSTEM USING PERCEPTION OF BRIGHTNESS
PO1-48	Stanislav Darula, SK	DERIVATING ILLUMINANCE FOR MODEL MEASUREMENTS UNDER ARTIFICIAL SKY
PO1-49	Myriam Aries, NL	DYNAMIC DAYLIGHT AND INPUT FOR INTELLIGENT (DAY)LIGHTING CONTROL
PO1-50	John Mardaljevic, GB	NEUTRAL DAYLIGHT ILLUMINATION WITH ELECTROCHROMIC GLAZING: SIMULATION OF ANNUAL PROFILES FOR 'LIGHT MIXING'
PO1-51	John Mardaljevic, GB	ILLUMINATION AND CONSERVATION: A CASE STUDY EVALUATION OF DAYLIGHT EXPOSURE FOR AN ARTWORK IN A HERITAGE SETTING
PO1-52	Eleonora Brembilla, GB	THE EFFECT OF THE ANALYSIS GRID SETTINGS ON DAYLIGHT SIMULATIONS WITH CLIMATE-BASED DAYLIGHT MODELLING
PO1-53	Tao Luo, CN	SKY LUMINANCE AND SPECTRUM DISTRIBUTION IN BEIJING
PO1-54	Tao Luo, CN	A NEW SIMULATION METHOD FOR LIGHTING ENERGY CONSUMPTION FOR OFFICE BUILDING
PO1-55	Guillaume Tourasse, FR	LONG TERM MEASUREMENTS OF SKY SPECTRAL IRRADIANCES AND VALIDATION OF CIE DAYLIGHT ILLUMINANTS
PO1-56	Dominique Dumortier, FR	CLIMATE BASED DAYLIGHT ANALYSIS IN THE CLOUD
PO1-57	Ladislav Kómar, SK	LUMINANCE DISTRIBUTION ON HEMISPHERICAL ARTIFICIAL SKY DEPENDING ON LUMINAIRE CHARACTERISTICS AND POSITION
PO1-58	Zhang Bin, CN	RESEARCH ON INDOOR DAYLIGHTING DESIGN FOR RESIDENCE BASED ON CONCEPT OF DAYLIGHTING ENERGY EFFICIENCY
PO1-59	Jitka Mohelnikova, CZ	POST OCCUPANCY DAYLIGHT STUDY IN A HIGH-RISE BUILDING
PO1-60	Jitka Mohelnikova, CZ	INFLUENCE OF WINDOW ORIENTATION ON A ROOM DAYLIGHTING
PO1-61	Tomoko Taniguchi, JP	DISTRIBUTION CURVE OF LUMINOUS INTENSITY OF WINDOW SYSTEM USING DIRECT SUNLIGHT
PO1-62	Miroslav Fabian, SK	METHOD FOR DETERMINATION OF YEAR SKY REFERENCE CONDITIONS
PO1-63	Steve Fotios, GB	DAYLIGHT AND SEATING PREFERENCE IN OPEN-PLAN SPACES
PO1-64	Steve Fotios, GB	LAMP SPECTRUM DOES NOT AFFECT PEDESTRIANS' JUDGEMENTS OF THE EMOTION OF OTHERS AS CONVEYED BY FACIAL EXPRESSION
PO1-66	Andreas Walkling, DE	EXTENDED TI-FORMULA FOR A MORE PRECISE MEASURE OF PHYSIOLOGICAL GLARE DUE TO ROAD LIGHTING
PO1-67	Axel Stockmar, DE	EXTENSION OF THE LUMINANCE CONCEPT IN ROAD AND TUNNEL LIGHTING
PO1-68	Cyril Chain, FR	AIRPLANE OBSERVATIONS AT NIGHTTIME FOR A SUSTAINABLE URBAN LIGHTING
PO1-69	Leyla Dokuzer-Öztürk, TR	AN INVESTIGATION ON THE USE OF COLOURED LIGHT IN FACADE LIGHTING
PO1-70	Pierre Boulenguez, FR	PHOTOBIOLOGY – PRESENTATION OF A BLUE LIGHT HAZARD IN VIVO EXPERIMENT ON THE RAT
PO1-71	Etsuko Mochizuki, JP	CIRCADIAN EFFECTS OF LIGHT EXPOSURE PATTERN CONSIDERING DAYLIGHT FROM WINDOW
PO1-73	Ching Chze Foo, JP	EFFECT OF CORRELATED COLOUR TEMPERATURE AND INTRINSICALLY PHOTOSENSITIVE RETINAL GANGLION CELLS RESPONSE ON A VISUAL TASK
PO1-74	Kohtaro Kohmoto, JP	DEVELOPMENT OF LED FULL SPECTRUM LAMP
PO1-75	Agnieszka Wolska, PL	MELANOPIC LUX AND BLUE LIGHT UNDER DIFFERENT LIGHTING SCENARIOS
PO1-76	Jaroslav Štěpánek, CZ	PHOTOBIOLOGICAL SAFETY OF LCD SCREEN
PO1-77	Fabio Bisegna, IT	EFFECTS OF LED LIGHTING ON MENTAL PERFORMANCES
PO1-78	Katja Malovrh Rebec, SI	IMAGE FORMING AND NON-IMAGE FORMING EFFECTS OF LIGHT REFLECTED IN INNER ENVIRONMENT
PO1-79	Takeshi Morita, JP	THE EFFECT OF LIGHT WHICH STIMULATE MELANOPSIN-EXPRESING RETINAL GANGLION CELL INDEPENDENT OF CONE AND ROD ON MELATONIN SUPPRESSION DURING NIGHTTIME
PO1-80	Chien-Yue Chen, TW	IMPROVEMENT OF SLEEP QUALITY BY USING AN INTELLIGENT LIGHT
PO1-81	Rui Dang, CN	THE IMPACT OF NATURAL LIGHT ON THE TRADITIONAL ARCHITECTURAL COLOR PAINTINGS' COLOR DECAY OF CHINESE CLASSICAL GARDEN
PO1-82	Yasuki Yamauchi, JP	EVALUATION OF COLOUR DEGRADATION UNDER HIGH COLOUR RENDERING INDEX SSLS

PO2 (Wednesday, 14:00-15:30)

PO2-01 Xiong Zhang, CN	HIGH PERFORMANCE GAN-BASED LEDS ON PATTERNED SAPPHIRE SUBSTRATE WITH A NOVEL HYBRID PATTERNED SIO2/AL2O3 PASSIVATION LAYER AND TIO2/AL2O3 DBR BACKSIDE
PO2-02 Tsung-Hsun Yang, TW	COMMON AGING BEHAVIOURS OF LIGHT-EMITTING DIODES
PO2-03 Oswaldo Sanchez Jr. , BR	COMPARED ANALYSIS OF NEAR-FIELD AND FAR-FIELD PHOTOMETRY ON A LED PROJECTOR
PO2-04 José Luis Velázquez Molinero, ES	MODEL FOR ILLUMINANCE PRODUCED BY LEDS AS A FUNCTION OF DISTANCE
PO2-05 Carsten Dam-Hansen, DK	ANALYSIS OF COMPACT AND PORTABLE GONIOSPECTROMETER SYSTEM FOR TEST OF LED LAMPS
PO2-06 Yasuki Yamauchi, JP	INFLUENCE OF THE POSTURE OF OLED PANELS ON THE FLUX MAINTENANCE EXPERIMENTS
PO2-07 Yasuki Yamauchi, JP	PRELIMINARY STUDY ON THE SOURCE-SIZE EFFECT IN THE INTEGRATING SPHERE-BASED TOTAL LUMINOUS FLUX MEASUREMENT OF OLED PANELS
PO2-08 Florin Domnita, RO	HEAT LOSSES OF LED LAMPS - SIMPLIFIED MEASUREMENT AND CALCULATION METHODOLOGY
PO2-09 Grega Bizjak, SI	OPTIMIZATION OF SPECTRUM OF TUNABLE LED COLOUR LIGHT SOURCE
PO2-10 Kenichi Kinoshita, JP	DEVELOPMENT OF STANDARD LED FOR UV-LEDS AND ESTABLISHMENT OF CALIBRATION SERVICE FOR TOTAL RADIANT FLUX OF UV-LED AT NMIJ
PO2-11 Rebecca Hooke, GB	APSUS – A CCD ARRAY SPECTRORADIOMETER FOR SOLAR UV MEASUREMENT
PO2-12 George Eppeldauer, US	CALIBRATION PROCEDURE FOR UV-365 INTEGRATED IRRADIANCE MEASUREMENTS
PO2-14 Shu Takeshita, JP	EVALUATION OF THE CALIBRATION VALUE OF THE LUMINANCE INTENSITY STANDARD LAMP KEPT IN THE DARK PLACE OVER 26 YEARS
PO2-15 Zhao Weiqiang, CN	THE NONLINEARITY TESTER FOR OPTICAL DETECTOR BASED ON MONOCHROME LED
PO2-16 Zhifeng Wu, CN	INVESTIGATION OF THE FIBER SPECTRORADIOMETER
PO2-17 Jan Škoda, CZ	MEASUREMENT OF DISCOMFORT GLARE THROUGH THE LUMINANCE ANALYZER
PO2-18 Maíra Vieira Dias, BR	LIGHT AT EYE LEVEL OF INDUSTRIAL EMPLOYEES. NEW ADVANCES IN SENSOR DEVELOPMENT
PO2-19 Dmitri Scums, BY	NEW TYPE OF LIGHT SOURCE FOR LUXMETERS CALIBRATION
PO2-20 Pierre Boulenguez, FR	IMAGING RADIOMETRY - A FAST AND ROBUST SHUTTER SPEED SEARCH ALGORITHM
PO2-21 Siarhey Nikanenka, BY	INFLUENCE OF SPATIAL CHARACTERISTICS OF SOLID STATE LIGHT SOURCES ON RESULTS OF MEASUREMENTS OF THEIR PHOTOMETRIC AND RADIOMETRIC PROPERTIES
PO2-22 Siarhey Nikanenka, BY	A PRACTICAL METHOD FOR DETERMINATION OF AVERAGED SPECTRAL RADIANCE OF UV LED
PO2-23 Ronan Le Breton, FR	OUT OF PLANE BRDF MEASUREMENT AT LNE-CNAM, USING “CONDOR”, OUR PRIMARY GONIOSPECTROPHOTOMETER
PO2-24 Irma Kruger, ZA	MEASURING THE SPECTRAL IRRADIANCE OF A HIGH-POWERED FOCUSED LIGHT SOURCE
PO2-25 Cai-Hong Dai, CN	SPECTRAL RADIANCE REALIZATION AND CHARACTERIZATION BASED ON HIGH TEMPERATURE BLACKBODY
PO2-26 Jiangen Pan, CN	A NOVEL STRAY LIGHT INDEX FOR SPECTRORADIOMETERS
PO2-27 Kenji Godo, JP	CORRELATION ANALYSIS OF WAVELENGTH UNCERTAINTY FOR CHROMATICITY MEASUREMENT
PO2-28 Roman Dubnicka, SK	DISTORTION ELECTRICAL POWER IN THE MEASUREMENT OF ELECTRICAL PARAMETERS OF LUMINAIRES
PO2-29 Roman Dubnicka, SK	SPECTRORADIOMETRIC MEASUREMENTS IN MESOPIC CONDITIONS
PO2-30 Roman Dubnicka, SK	IMPACT OF THE QUALITY ELECTRIC POWER ON SPECTRAL POWER DISTRIBUTION OF LIGHT SOURCES
PO2-31 Lihao Xu, CN	AN LED BASED SPECTRUM DESIGN FOR SURGICAL LIGHTING
PO2-32 Mathias Niedling, DE	AVERAGE OR MAXIMUM LUMINANCE – WHAT IS THE RIGHT DIMENSION FOR DISCOMFORT GLARE EVALUTION UNDER STREET LIGHTING CONDITIONS?
PO2-33 Alberto Urrutia-Moldes, GB	USING LIGHTING TO ENHANCE POSITIVE BEHAVIOR IN PRISONS
PO2-34 Ute Besenecker, US	PROGRESS IN MODELLING SCENE BRIGHTNESS
PO2-35 Yoshiki Nakamura, JP	BRIGHTNESS-MATCHING EXPERIMENT TO IMPROVE LUMINANCE-BRIGHTNESS IMAGE CONVERSION SYSTEM
PO2-36 Keisuke Aya, JP	THE RELATIONSHIP BETWEEN THE BRIGHTNESS OF OVERALL SPACE AND THE BRIGHTNESS IN THE SPECIFIC VISUAL FIELD IN THE NON-UNIFORM ILLUMINATED SPACE
PO2-37 Carsten Funke, DE	EXTENSION OF THE UNIFIED GLARE RATING FORMULA FOR NON-UNIFORM LED LUMINAIRES
PO2-38 Carsten Funke, DE	RENEWAL OF THE CONTRAST RENDERING FACTOR PROCEDURE TO DESCRIBE REFLECTED GLARE IN INDOOR APPLICATIONS
PO2-39 Hoda Jafarian, CA	ASSESSING THE IMPACT OF WOOD-INNER COATING ON ENERGY CONSUMPTION AND VISUAL COMFORT IN ARCHITECTURAL SPACES
PO2-40 Peng Xue, CN	A FRAMEWORK FOR ASSESSING THE LUMINOUS COMFORT IN HONG KONG RESIDENTIAL BUILDINGS
PO2-41 Zeng Kun, CN	AN EXPLORATORY STUDY: THE EFFECTS OF LIGHTING ON MOOD IN A CARDIAC INTENSIVE CARE UNIT
PO2-42 Jumpei Mitsuhashi, JP	A BASIC STUDY ON LUMINANCE-BASED STANDARDS FOR MUSEUM LIGHTING
PO2-45 Andrzej Pawlak, PL	COMPARISON OF RESULTS OF COMPUTER SIMULATIONS AND MEASUREMENTS FOR THE ESCAPE ROUTE LIGHTING INSTALLATION

PO2-46	Xin Zhang, CN	A SURVEY OF LIGHTING AND ENERGY PERFORMANCES IN 71 RETAIL STORES IN CHINA
PO2-47	Beu Dorin, RO	SUSTAINABLE LIGHTING: THE ROMANIAN APPROAC
PO2-48	Beu Dorin, RO	LIGHTING SPECIALIST
PO2-49	Hirotaka Suzuki, JP	DEVELOPMENT OF LUMINOUS FLUX TRACKING METHOD FOR EVALUATION OF DAYLIGHTING SYSTEM
PO2-50	Yumi Tanaka, JP	A NEW METHOD OF DESCRIBING LIGHT FLOWS IN THE BUILDINGS WITH PHOTON DISTRIBUTION
PO2-51	Yasuhiro Miki, JP	STUDY ON THE BASIC LIGHTING DESIGN METHOD FOR BUILDINGS ENERGY EFFICIENCY WITH QUALITY BY THE SPATIAL DISTRIBUTION OF LUMINOUS FLUX
PO2-52	Mohammed Mayhoub, EG	TOWARDS A SOLUTION FOR THE INEVITABLE USE OF THE GLAZED FAÇADES IN THE ARID REGIONS VIA THE PARAMETRIC DESIGN APPROACH
PO2-53	Hideki Yamaguchi, JP	CALCULATION METHOD OF LUMINOUS FLUX TO DESIGN A LIGHTING ENVIRONMENT FOR RESIDENTIAL HOUSE BY USING CEILING LUMINAIRE
PO2-54	Feride Şener Yılmaz, TR	COST-OPTIMAL ARCHITECTURAL LIGHTING DESIGN STRATEGY: METHODOLOGY AND CASE STUDY APPLICATIONS
PO2-55	Fabio Bisegna, IT	LIGHTING DESIGN FOR PLANT GROWTH AND HUMAN COMFORT
PO2-56	Maurice Donners, NL	A PSYCHOPHYSICAL MODEL OF DISCOMFORT GLARE IN BOTH OUTDOOR AND INDOOR APPLICATIONS
PO2-57	Yasuko Koga, JP	SPECTRAL EFFECTS OF LIGHT ON DISCOMFORT GLARE UNDER MESOPIC CONDITIONS
PO2-58	Dariusz Sawicki, PL	UGR FOR EXTERIOR WORKING ENVIRONMENT? WHY NOT
PO2-59	Steve Fotios, GB	PAVEMENT OBSTACLE DETECTION AT MESOPIC LEVELS: A STEP TOWARD APPLICABLE CONTEXT
PO2-60	Steve Fotios, GB	MISLEADING RATINGS OF PERCEIVED SAFETY
PO2-61	Tomas Novak, CZ	THE BASIC RULES FOR ZEBRA CROSSING ILLUMINATION
PO2-62	Michico Iwata, JP	APPEARANCE OF HUMAN FACE AND ATMOSPHERE OF ENVIRONMENT UNDER LED STREET LIGHTS OF DIFFERENT CORRELATED COLOUR TEMPERATURE
PO2-63	Florian Greffier, FR	AN AUTOMATIC SYSTEM FOR MEASURING ROAD AND TUNNEL LIGHTING PERFORMANCE
PO2-64	Seiichi Tachi, JP	THE STUDY OF PREVENT THE SLEEP-INDUCING BY THE LED LIGHTINGS
PO2-65	Hans Baumgartner, FI	EFFECTS OF INTELLIGENT CONTROL ON THE LIFETIME OF LED STREET LIGHTS
PO2-66	Jeremiah Kelly, GB	EXPLAINING THE HIGH VISIBILITY OF LIGHT EMITTING DIODES IN FOG
PO2-67	Wenyi Li, CN	NEW ACHIEVEMENTS IN PRACTICAL DETERMINATION OF ROAD SURFACE REFLECTION TABLE FROM IN-SITU MEASUREMENT DATA
PO2-68	Yuki Akizuki, JP	VISIBILITY OF ROAD SURFACE AND PEDESTRIAN'S FACE UNDER UNEVEN ILLUMINATED SPACE
PO2-69	Kanae Kataoka, JP	REQUIRED ILLUMINANCE AND EVALUATION OF VISIBILITY OF THE FACE IN LIGHTENED ENVIRONMENT FROM THE LED STREET LIGHT
PO2-70	Malgorzata Zalesinska, PL	RELATIONSHIP BETWEEN SIZE OF LED BILLBOARDS AND DRIVER'S VISUAL PERFORMANCE – STUDY WITH USING DRIVING SIMULATOR
PO2-71	Ping Lu, CN	THE RESEARCH ON VISUAL EFFECT OF URBAN ROAD GREENBELTS LIGHTING DESIGN
PO2-72	Lixiong Wang, CN	STUDY OF THE URBAN OVERPASS GUARDRAIL LIGHTING DISABILITY GLARE AND FLICKER EFFECT
PO2-73	Cheng-Hsien Chen , TW	INVESTIGATION OF COMPONENTS OF ENVIRONMENTAL ILLUMINANCE AND LUMINANCE BY EMD AND DENOISE METHODS
PO2-74	Natalia Sokol, PL	PUBLIC LIGHTING IN A CONTEXT OF THE REGENERATION PROCESSES IN POLISH CITIES
PO2-75	Seong-Sik Yoo, KR	A STUDY ON REDUCTION OF LIGHT POLLUTION CAUSED BY ARCHITECTURAL LIGHTING
PO2-76	Jongsung Han, KR	A SURVEY OF LIGHT POLLUTION BY SIGNS AND ITS IMPROVEMENT
PO2-77	Jieqiao Song, CN	STUDY ON LIGHT ENVIRONMENT PARTITION OF URBAN NIGHTSCAPE LIGHTING DESIGN IN CHINA
PO2-78	Juan Yu, CN	THE INVESTIGATION AND DATA ANALYSIS OF LIGHT TRESPASS OF URBAN RESIDENTIAL AREAS IN CHINA
PO2-79	Richard Wainscoat, US	LIGHT EMITTING DIODES AND ASTRONOMY — CHALLENGES AND OPPORTUNITIES
PO2-80	Thomas Lemons, US	LED - A SUPERIOR LIGHT SOURCE FOR SPORTS LIGHTING
PO2-81	Toru Kitano, JP	RECOMMENDED LUMINANCE FOR COLOUR LIGHTING

PO3 (Thursday, 11:10-12:40)

PO3-01 Alejandro Ferrero, ES	MEASURING SPARKLE OF EFFECT COATINGS
PO3-02 Tony Bergen, AU	HIGH ACCURACY CALIBRATION AND USE OF POWER ANALYSERS FOR MEASUREMENT OF SOLID STATE LIGHTING DEVICES
PO3-03 Udo Krüger, DE	MEASUREMENT UNCERTAINTY OF PHOTOMETRIC MEASUREMENTS CONSIDERING THE REQUIREMENTS OF THE NEW DRAFT INTERNATIONAL STANDARD CIE DIS 025/E:2014
PO3-04 Kathryn Nield, NZ	ROOM TEMPERATURE PQED: DYNAMIC RANGE, TEMPERATURE SENSITIVITY AND LINEARITY OF RESPONSE
PO3-05 Jianping Wang, CN	AN IMPROVED GONIOPHOTOMETER USING CURVED MIRROR
PO3-06 Thorsten Gerloff, DE	TRACEABLE GONIOPHOTOMETRY ON HIGH-POWER-LEDS AT PTB
PO3-07 Denan Konjhodzic, DE	INFLUENCE OF BURNING POSITION ON GONIOSPECTRORADIOMETRIC MEASUREMENTS
PO3-08 Roman Dubnicka, SK	METHODS FOR CORRECTION OF THE LIDC MEASUREMENTS BY MEANS OF GONIOPHOTOMETERS WITH ROTATING LUMINAIRES FOR DIFFERENT LAMPS
PO3-09 Roman Dubnicka, SK	A SIMPLE MODEL OF SPECTRAL DISTRIBUTION OF DAYLIGHT IN INTERIOR OF THE BUILDING
PO3-10 Peter Blattner, CH	POLARIZATION EFFECTS IN MIRROR TYPE GONIOPHOTOMETERS
PO3-11 Lenka Prokopova, CZ	MEASUREMENT AND CALCULATION METHOD FOR TRANSMISSION OF LIGHT THROUGH TUBULAR LIGHT GUIDE
PO3-12 Sven Bogdanow, DE	A WIDESPREAD MISAPPREHENSION: TEMPERATURE DEPENDENCE OF BLACK BODY'S LUMINANCE
PO3-13 Qiao Bo, CN	MEASUREMENT UNCERTAINTY FOR PHOTOBIOLOGICAL SAFETY ASSESSMENT
PO3-14 Aaron Yan, HK	EVALUATION OF MEASUREMENT UNCERTAINTY FOR PHOTOMETRIC, PHOTONIC, RADIOMETRIC MEASUREMENTS IN ACCORDANCE WITH THE JCGM 100:2008 AND JCGM 101
PO3-15 Liu Hui, CN	THE METHOD OF REALIZATION FOR PHOTOSYNTHESIS QUANTUM SCALE
PO3-16 Lei Wang, CN	ASSESSMENT OF APPLICATION OF HIGH-POWER LED IN EXHIBITION HALL
PO3-17 Taka-Aki Suzuki, JP	SELF-CONTAINED LIGHTING SYSTEM USING LED LIGHTING WITH DIMMING CONTROL, DIFFUSION SKYLIGHTS, AND ENERGY STORAGE OF SOLAR POWER
PO3-18 Yukiko Yoshida, JP	STUDY ON CHANGES IN LED LIGHTING LUMINANCE AND COLOUR TEMPERATURE IN AN OFFICE TEST SITE
PO3-19 Yungkyung Park, KR	DAYLIGHT MEMORY COLOUR FOR LIGHTINGS
PO3-20 Steve Fotios, GB	THE BERMAN BRIGHTNESS EXPERIMENT REPEATED: A DISCUSSION OF METHODOLOGY AND METRICS FOR SPATIAL BRIGHTNESS
PO3-21 Steve Fotios, GB	USING LIGHTING TO IMPROVE CONCENTRATION IN THE CLASSROOM
PO3-22 Naoyuki Suzuki, JP	STUDY ON THE EFFECT OF WALL WASHER LUMINAIRES MOUNTED ON REAR CEILING IN CLASSROOM ON ENERGY SAVINGS
PO3-23 Asta Logadottir, DK	A CASE STUDY ON OCCUPANT CONTROLLED LIGHTING IN OFFICES
PO3-24 Tse Ming Chung, HK	A NEW METHOD FOR ESTIMATING SAVEABLE LIGHTING ENERGY IN VISUALLY ACCEPTABLE DAYLIT CELLULAR OFFICES IN HONG KONG
PO3-25 Tse Ming Chung, HK	UNIFYING ROOM LAYOUTS FOR UTILIZATION FACTOR AND UNIFIED GLARE RATING TABLES FOR INDOOR LUMINAIRES
PO3-26 Di Lou, CN	EVALUATION OF GLARE FROM NON-UNIFORM INDOOR LUMINAIRES
PO3-27 Gertjan Scheir, BE	EFFECT OF LUMINANCE CONTRAST ON THE PERCEPTION OF BRIGHTNESS AND DISCOMFORT GLARE
PO3-29 Miki Kozaki, JP	BASIC RESEARCH ON THE RELATIONSHIP BETWEEN ILLUMINANCE VALUE AND SPATIAL DISTRIBUTION OF LUMINANCE - EXPLORATORY DATA ANALYSIS USING LIGHTING
PO3-31 Dionyz Gasparovsky, SK	LUMINANCE DISTRIBUTION AND ILLUMINANCE OF SURFACES AT OFFICE BUILDINGS WITH RESPECT TO THE REQUIREMENTS TO ILLUMINATION OF INTERIOR WORKPLACES
PO3-32 Dionyz Gasparovsky, SK	FOCUSED ON HOME LIGHTING: WHAT TO STANDARDISE AND WHAT TO GUIDE?
PO3-33 Lu Shiwei, CN	A STUDY OF THE IMPACT OF HAZE ON BUILDING INDOOR LIGHTING ENVIRONMENT
PO3-34 Yee Loon Sum, SG	HIGH PERFORMANCE ILLUMINANCE MONITORING FOR BUILT ENVIRONMENT
PO3-35 Eino Tetri, FI	LIGHTING RETROFITTING: IMPROVING ENERGY EFFICIENCY AND LIGHTING QUALITY
PO3-36 Krzysztof Wandachowicz, PL	REFLECTOR GEOMETRY OPTIMIZATION USING GENERIC ALGORITHM
PO3-37 Yi Xu, CN	THE RESEARCH OF TRIADIC RELATION AMONG BUILDING SPACES ,LIGHTING COMFORT LEVEL AND LIGHTING ENERGY CONSUMPTION IN CIVIL BUILDINGS
PO3-38 Takuma Ban, JP	EVALUATION OF LIGHTING ENERGY CONSUMPTION AND LIGHTING ENVIRONMENT BY USING DAYLIGHT IN JAPANESE OFFICE BUILDINGS
PO3-39 John Mardaljevic, GB	THE 'NORDSTROM TOWER': A LANDMARK DAYLIGHT INJURY STUDY
PO3-40 Szu-Cheng Chien, SG	THE EFFECTS OF LIGHT SHELF ON DYNAMIC DAYLIGHT PERFORMANCE IN TROPICAL BUILDINGS - A CASE STUDY
PO3-41 Mika Kato, JP	RESEARCH ON ACCEPTABLE LUMINANCE CONTRAST BETWEEN THE WINDOW USING BLIND AND THE SURROUNDING WALL
PO3-42 Daisuke Ito, JP	OUTDOOR MEASUREMENT ON LUMINOUS EFFICACY OF WINDOW WITH SHADING
PO3-43 Yu Bian, CN	PARAMETERS OPTIMIZATION OF BUILDING DAYLIGHT FACILITY UNDER REPRESENTATIVE SKY
PO3-44 Michael Donn, NZ	TEACHING LARGE CLASSES CLIMATE BASED DAYLIGHT SIMULATION

PO3-45	Kasim Celik, TR	EXAMINATION OF CLASSROOMS IN A PRIMARY SCHOOL IN TERMS OF VISUAL COMFORT AND ENERGY CONSUMPTION
PO3-46	Nuria Castilla, ES	KANSEI ENGINEERING METHODOLOGY FOR THE EMOTIONAL EVALUATION OF LIGHTING IN CLASSROOMS
PO3-47	Hillevi Hemphälä, SE	A METHOD FOR ASSESSING RISKS WITHIN VISUAL ERGONOMICS
PO3-48	Carolin Liedtke, DE	THE CONSTRUCTION PROCESS IN THE SPATIAL LIGHT PERCEPTION
PO3-50	Thorbjörn Laike, SE	THE IMPACT OF A NEW ENERGY EFFICIENT LIGHTING SYSTEM ON THE WELL-BEING ON ELDERLY LIVING IN A RETIREMENT HOME
PO3-52	Yi-Chun Chen, TW	ASSESSMENTS OF DYNAMIC LIGHTING IN THE OFFICE ENVIRONMENT
PO3-53	Seda Kacel, TR	POST-OCCUPANCY EVALUATION OF LUMINOUS ENVIRONMENT CONSIDERING DIFFERENT BUILDING TYPOLOGIES: A PILOT STUDY FOR OFFICE FUNCTION
PO3-55	Marek Mácha, SK	ILLUMINATION SYSTEMS IN AUTOMOTIVE INDUSTRY
PO3-56	B.H. Soong , SG	PILOT STUDY OF LVDC-BASED LED LIGHTING SYSTEM IN RESIDENTIAL BUILDINGS IN SINGAPORE
PO3-57	Rui Dang, CN	THE RESEARCH ON WLED INFLUENCING COLOR OF CHINESE TRADITIONAL CALLIGRAPHY AND PAINTING IN MUSEUM LIGHTING
PO3-58	Masayuki Osumi, JP	THE HUMAN SKIN EVALUATION AND VISUAL ASSECEMENT WAY APPLIED SPECTRAL IMAGING AND LAPLACIAN FILTER PROCESSING
PO3-59	Minao Yamamoto, JP	AUTOMATIC LIGHT CONTROL SYSTEM TO KEEP ROOM APPEARANCE APPROPRIATE WITH ACTIVE INTRODUCTION OF NATURAL LIGHT
PO3-60	Chan-Su Lee, KR	OPTIMIZATION FOR SPECTRALLY TUNABLE LIGHTING CONTROL
PO3-61	Per-Henrik Branzell, SE	HUMAN RELATED URBAN-LIGHTING BY ADVANCED CONTROL SYSTEM
PO3-62	Shuxiao Wang, CN	ISSUES ON THE STANDARDIZATION OF SMART LIGHTING
PO3-63	Shuxiao Wang, CN	THOUGHT ON THE IMPLEMENTATION OF LED ROADWAY LIGHTING FROM THE EXPERIENCE OF CHINA
PO3-64	Nianyu Zou, CN	LIGHTING ENVIRONMENTS EVOLUTION IN LIVING ROOMS IN CHINA
PO3-65	Nianyu Zou, CN	AN INVESTIGATION REPORT ON OUTDOOR LIGHTING REQUREMENTS WITH PEDISTRAN SAFETY SENSE-THE CASE IN DALIAN AREA OF CHINA
PO3-68	John Bullough, US	SUBJECTIVE RESPONSES TO VISUAL ALARMS FOR EMERGENCY NOTIFICATION VIEWED INDIRECTLY
PO3-69	John Bullough, US	WARNING BEACON CHARACTERISTICS FOR VISIBILITY, GLARE PREVENTION AND CLOSURE DETECTION
PO3-70	Min-Wook Lee, KR	CORRELATION OF ADATATION LUMINANCE AND ILLUMINANCE ACCORDING TO CHANGES TUNNEL OUTSIDE SITUATION
PO3-71	Raoul Lorphèvre, BE	TUNNEL LIGHTING EVOLUTION: LED TECHNOLOGY AND LIGHTING MANAGEMENT
PO3-72	Haiping Shen, CN	FIELD STUDY ON FLICKER EFFECT IN TUNNEL LIGHTING USING LINEAR LIGHT EMITTING DIODE LUMINAIRES
PO3-73	Hayato Ito, JP	TUNNEL LIGHTING DESIGN FOR ENERGY SAVING BY THE METHOD OF HIGH UNIFORMITY OF ROAD SURFACE LUMINANCE
PO3-74	Allan Ruberg, DK	RESEARCH PROJECT SHEDS LIGHT ON THE PERFORMANCE OF THE LED TECHNOLOGY IN RELATION TO ROAD LIGHTING
PO3-75	Céline Villa, FR	SMART INTENSITY MANAGEMENT OF LED ROAD STUDS
PO3-76	Travis Terry, US	THE INTERACTION OF OVERHEAD LIGHTING AND VEHICLE HEADLAMPS
PO3-77	Cyril Chain, FR	LUMIROUTE : OPTIMISATION OF ROAD SURFACES REFLECTION PROPERTIES AND LIGHTING
PO3-78	Alexey Korobko, RU	IMPROVEMENT OF MOBILE METHOD FOR ILLUMINANCE MEASUREMENT OF A ROAD
PO3-79	Shau-Wei Hsu, TW	PERFORMANCE OF LED ROAD LIGHTINGS STUDEIED BY DETAILED IN-FIELD MEASUREMENTS WITH VARIOUS DEVICES
PO3-81	Mojtaba Navvab, US	ESTIMATION OF THE ADAPTATION LUMINANCE UNDER ROADWAY LIGHTING CONDITIONS
PO3-82	Kenji Ueda, JP	TESTS ON ACTUAL EXPRESSWAY FOR APPLICATION OF PURKINJE PHENOMENON IN ROAD LIGHTING