

**Monday, September 18
Morning**

Linhart Hall				
09:00	- 09:10	<p align="center">OPENING SESSION Grega Bizjak, SI (Local Organizing Committee Chair) Peter Blattner, CH (CIE President)</p>		
		<p align="center">Keynote Presentation Chair: Peter Blattner, CH</p>		
		<p align="center">Invited Presentation Chair: Jennifer Veitch, CA</p>		
09:10	- 10:10	<p align="center">IP01 THE FUTURE OF INDOOR LIGHTING STANDARDS (AND HOW TO GET THERE) Peter Boyce, GB & Kit Cuttle, NZ</p>		
10:10	- 10:25	<p align="center">GOLD PIN AWARD CEREMONY</p>		
10:25	- 10:50	<p align="center">COFFEE BREAK</p>		
		Linhart Hall	Kosovel Hall	M1 Hall
		Oral Presentations		
10:50	- 12:10	<p align="center">PA1-1 D2 - Spectroradiometry and photometry Chair: Dong-Hoon Lee, KR</p>	<p align="center">PA1-2 D3 - Office lighting Chair: Adrie de Vries, NL</p>	<p align="center">PA1-3 D4/D3 - Road safety Chair: Ron Gibbons, US</p>
10:50	- 11:05	<p align="center">OP40 Constantinos Bouroussis, CH RECONSTRUCTION OF CAMERA SPECTRAL RESPONSIVITY USING MULTIPLE NARROW-BAND LED RADIANCE SOURCES</p>	<p align="center">OP57 Johanna Enger, SE EMOTIONS ASSOCIATED WITH AN OFFICE ILLUMINATION AND A PROCESS TO IMPROVE THEM</p>	<p align="center">OP6 Nima Moadab, GB IMPROVING THE DETECTION OF PEDESTRIANS AFTER DARK</p>
11:05	- 11:20	<p align="center">OP61 Udo Krüger, DE SENSITIVITY EVALUATION OF MEASUREMENT UNCERTAINTY CONTRIBUTIONS OF SPECTRAL DATA FOR CALCULATED INTEGRAL QUANTITIES</p>	<p align="center">OP11 Kynthia Chamilothoni, NL EFFECTS OF DYNAMIC LIGHT PATTERNS WITH NATURAL AND NON-NATURAL TEMPORAL COMPOSITION ON REPORTED STRESS RECOVERY, FASCINATION, AND ASSOCIATION WITH NATURE</p>	<p align="center">OP66 Arjen Mentens, BE IMPACT OF COLOUR TEMPERATURE AND ILLUMINATION LEVEL ON SAFETY PERCEPTION FOR PARKING GARAGE LIGHTING</p>
11:20	- 11:35	<p align="center">OP77 Christian Schrader, DE SPECTRAL DEPENDENT NON-LINEARITY OF CHARGE ACCUMULATING PIXEL MATRIX SENSORS</p>	<p align="center">OP74 Arjen Raue, NL BIODYNAMIC LIGHTING IN PRACTICE: PILOT STUDY IN A GOVERNMENT OFFICE</p>	<p align="center">OP36 Jim Uttley, GB CYCLIST FATALITIES INCREASE ON UNLIT ROADS</p>
11:35	- 11:50	<p align="center">OP35 Hiroshi Shitomi, JP METROLOGICAL IMPACT OF INTRODUCING CONE FUNDAMENTAL-BASED PHOTOMETRY AS THE BASIS TO DERIVE PHOTOMETRIC UNITS</p>	<p align="center">OP81 Jennifer Veitch, CA OFFICE LIGHTING FOR LIGHT-SENSITIVE INDIVIDUALS: A PILOT TEST</p>	<p align="center">OP5 Steve Fotios, GB CYCLISTS ARE INCORRECTLY REPRESENTED IN LIGHTING DESIGN STANDARDS</p>
11:50	- 12:10	Discussion	Discussion	Discussion
12:10	- 13:20	<p align="center">LUNCH BREAK</p>		

**Monday, September 18
Afternoon**

	Linhart Hall	Kosovel Hall	M1 Hall
	Workshop/Seminar	Oral Presentations	Workshop/Seminar
13:20 - 14:55	WS1 (D3) Convenor: Peter Thorns, GB	PA2-1 D4/D1 - Road lighting measurement Chair: Dionyz Gasparovsky, SK	WS2 (D2) Convenor: Tony Bergen, AU
13:20 - 13:35	INTERIOR LIGHTING DESIGN - METRICS AND METHODS	OP8 Florian Greffier, FR Qd VS Q0 FOR SCALING OF STANDARD R-TABLES IN ROAD LIGHTING DESIGN: THE QUESTION IS WORTH ASKING	CAN CONE FUNDAMENTALS BE USED IN EVERYDAY PHOTOMETRY?
13:35 - 13:50		OP30 Laure Lebouc, FR EXPLORATORY STUDY TO DEFINE NEW OBSERVATION GEOMETRIES FOR ROAD LIGHTING DESIGN	
13:50 - 14:05		OP69 Maria Nilsson Tengelin, SE A NOVEL METHOD FOR FIELD MEASUREMENTS OF LIGHT DISTRIBUTION OF MODERN VEHICLE HEADLAMPS	
14:05 - 14:20		OP68 Valérie Muzet, FR ON SITE PHOTOMETRIC CHARACTERIZATION OF WET PAVEMENTS	
14:20 - 14:35		OP76 Katrin Schier, DE TOWARDS A GENERALIZED MODEL FOR THE DETECTION OF NON-UNIFORMITIES IN LUMINANCE DISTRIBUTIONS	
14:35 - 14:55		Discussion	
14:55 - 15:20		COFFEE BREAK	

	Linhart Hall	Kosovel Hall	M1 Hall
	Presented Posters (PS)		
	PS1 Presented Posters (D1/D3/D6/D8) Chair: Katja Malovrh Rebec, SI	PS2 Presented Posters (D3/D1/D6) Chair: Claudia Amorim, BR	PS3 Presented Posters (D2/D4) Chair: Armin Sperling, DE
15:20 - 16:05	PP9 Ruili He, GB VISUAL COLOUR-DIFFERENCE ASSESSMENT OF 3D PRINTED SAMPLES	PP2 Michèle Atié, FR METHOD FOR EVALUATING FIDELITY OF RESTITUTION OF SUBJECTIVE IMPRESSIONS IN IMMERSIVE VIRTUAL REALITY IN DAYLIT INTERIOR SCENES	PP7 Dionyz Gasparovsky, SK LIGHTING ENVIRONMENT IN URBAN PARKLANDS AND GARDENS: CASE MODELS FOR BRATISLAVA
15:20 - 15:25			
15:25 - 15:30	PP11 Luke Hellwig, US IMPROVEMENTS TO CIECAM16 AND FUTURE DIRECTIONS	PP4 Kynthia Chamilothoni, NL THE IMPACT OF COLOUR AND SIMULATION DETAIL ON SUBJECTIVE IMPRESSIONS OF RENDERED SCENES IN IMMERSIVE VIRTUAL REALITY	PP20 Enoch Saint-Jacques, FR INVESTIGATING THE EVOLUTION OF ROAD SURFACE DESCRIPTORS ACCORDING TO OBSERVATION ANGLES USING A DATABASE OF THE REFLECTION PROPERTIES OF URBAN MATERIALS
15:30 - 15:35	PP16 Stuart Mucklejohn, GB QUANTIFYING THE POTENTIAL IMPACT OF MAINTENANCE FACTORS ON LIGHTING UNIFORMITY IN HORTICULTURAL INSTALLATIONS	PP15 Marshal Maskarenj, BE MIXED EFFECT OF TIME OF DAY AND CORRELATED COLOUR TEMPERATURE ON DISCOMFORT GLARE	PP22 Christoph Schulze, DE CHARACTERISATION OF ROAD REFLECTION IN RELATION TO VEHICLE HEADLAMP ILLUMINATION
15:35 - 15:40	PP23 Zeng Xianxian, CN EVALUATION OF THE COLOUR HARMONY OF ARTIFICIAL LIGHT AT NIGHT IN URBAN COMMERCIAL DISTRICT UTILIZING HYPERSPECTRAL IMAGING	PP17 Yuki Oe, JP EVALUATION STRUCTURE ON PREFERENCE OF PAINTING'S APPEARANCE IN MUSEUM LIGHTING	PP28 Lanlan Wei, SI EXPLORE THE RELATIONSHIP BETWEEN AMBIENT LIGHT AND CYCLING FREQUENCY AND SPEED
15:40 - 15:45	PP3 Simon Belgers, NL DEGRADATION OF BIOLOGICAL POTENCY IN LED LIGHT SOURCES WITH LIFETIME	PP25 Valerio Lo Verso, IT TRAINING ON SUSTAINABLE DAYLIGHTING: THE NLITED PROJECT	PP5 Alejandro Ferrero, SP PRELIMINARY STUDY FOR TRACEABILITY ON SPECULAR GLOSS
15:45 - 15:50	PP6 Francesca Fragliasso, IT DOES LIGHT AFFECT FUNGAL GROWTH? EXPERIMENTAL ANALYSIS UNDER MONOCHROMATIC LED SOURCES	PP26 Bo Tang, CN THE INFLUENCE OF THE CONTENTS OF DYNAMIC WINDOW VIEW ON THE HEALING EFFECT OF PEOPLE IN ISOLATED, CONFINED AND EXTREME ENVIRONMENT	PP8 Lou Gevaux, FR METHOD FOR TRACEABILITY OF MULTISCALE BIDIRECTIONAL REFLECTANCE DISTRIBUTION FUNCTION MEASUREMENTS
15:50 - 15:55	PP18 Masayuki Osumi, JP SPARKLE AND GRAININESS INDEX MEASUREMENT OF METALLIC COATINGS WITH MATTING AGENT	PP29 Songbo Zhang, CN ENERGY SAVING WITHOUT COMPROMISING HUMAN COMFORT: A FIELD STUDY OF SMART LIGHTING IN OFFICE	PP10 János Hegedüs, HU LED LIFETIME TESTS FOR CIRCUIT SIMULATION MODELLING
15:55 - 16:00		PP13 Yandan Lin, CN THE EFFECT OF LIGHT INTERVENTION ON EMOTION BASED ON THE COMBINED IMPACT OF VISUAL PREFERENCE AND NON-VISUAL INFLUENCE	PP14 Ville Mantela, FI TEMPORAL LIGHT ARTEFACT METRICS OF COMMERCIAL LED LAMPS
16:00 - 16:05			PP19 Masoud Rastgou, FI VALIDATION OF A MICRO-REFLECTOMETER FOR ACCURATE CHARACTERIZATION OF THIN FILM COATINGS

	Second foyer
16:05 - 17:35	Poster session 1

	Lobby of Faculty of Electrical Engineering, University of Ljubljana
19:00 - 21:00	Student Networking Event (by invitation)

**Tuesday, September 19
Morning**

Linhart Hall			
Invited Presentation Chair: Peter Blattner, CH			
08:30 - 09:30	IP02 SHEDDING LIGHT ON FAIR DATA AND OPEN SCIENCE Simon Hodson, FR		
09:30 - 09:55	COFFEE BREAK		
09:55 - 10:00	Room configuration		
	Linhart Hall	Kosovel Hall	M1 Hall
Oral Presentations			
10:00 - 11:20	PA3-1 D3 - Sustainability 1 and resiliency Chair: Peter Thorns, GB	PA3-2 D3/D6 - Integrative lighting 1 Chair: Kevin Houser, US	PA3-3 D1/D3 - Augmented and virtual reality Chair: Youngshin Kwak, KR
10:00 - 10:15	OP23 Yuki Akizuki, JP STUDY ON LIGHTING PLANNING FOR ACTIVE EVACUATION GUIDANCE DESIGN	OP3 Kai Broszio, DE LIGHT DIRECTION AT NIGHT INFLUENCES NON-VISUAL EFFECTIVENESS	OP63 Li-Chen Ou, TW CHARACTERISING HEAD-MOUNTED DISPLAYS BASED ON VISUAL ASSESSMENT
10:15 - 10:30	OP86 Hideki Yamaguchi, JP EVALUATION OF LIGHTING ENVIRONMENT IN A GYMNASIUM FOR VARIOUS ACTIVITIES DURING USE OF AN EVACUATION CENTER	OP53 Yingying Huang, CN THE EFFECT OF S-CONE ON LIGHT-INDUCED ALERTNESS BASED ON ACCURACY STUDY OF EEG EVALUATION METHOD	OP67 Hiroyuki Miyake, JP RELIABILITY OF SPACIOUSNESS AND BRIGHTNESS EVALUATION IN ROOMS WITH WINDOWS USING HEAD-MOUNTED DISPLAY VIRTUAL REALITY
10:30 - 10:45	OP25 Rengin Aslanoglu, PL A CROSS-COUNTRY AND SEASON ANALYSIS OF RESIDENTIAL LIGHTING	OP52 Steffen Hartmeyer, CH INSIGHTS INTO SPECTRALLY RESOLVED LIGHT-DOSIMETRY DATA	OP13 Xi Mou, US THE EFFECTS OF AMBIENT LIGHTING IN THE USAGE OF AUGMENTED REALITY
10:45 - 11:00	OP37 Johannes Weninger, AT POST-OCCUPANCY DERIVED USER PROFILES FOR IMPROVED ENERGETIC AND LIGHT DOSE RELATED BUILDING SIMULATION	OP16 Anna Pellegrino, IT INTEGRATIVE LIGHTING IN OFFICES: RESULTS FROM FIELD MEASUREMENTS AND ANNUAL DAYLIGHT SIMULATIONS	Discussion
11:00 - 11:20	Discussion	Discussion	

LUNCH BREAK

**Tuesday, September 19
Afternoon**

Linhart Hall			
Invited Presentation Chair: Peter Blattner, CH			
	Linhart Hall	Kosovel Hall	M1 Hall
Oral Presentations			
12:30 - 14:05	PA4-1 D3//D1/D6 - Integrative lighting 2 Chair: Manuel Spitschan, DE	PA4-2 D4 - Sustainability 2 Chair: Constantinos Bouroussis, CH	PA4-3 D1/D2 - Optical properties of materials Chair: Yoko Mizokami, JP
12:30 - 12:45	OP4 Roel Daneels, BE A CONTINUOUS RATING EXPERIMENT TO TEST THE FEASIBILITY OF WORKING WITH HIGH-LUMINANCE MONITORS TO INCREASE LIGHT AT EYE LEVEL	OP22 Celine Villa, FR FOUR-MONTH FOLLOW-UP OF THE PERFORMANCE OF LUMINESCENT ROAD MARKINGS	OP31 Frédéric Leloup, BE SOFT METROLOGY OF TRANSMISSION HAZE: AN EXPLORATORY STUDY
12:45 - 13:00	OP17 Luke Price, GB LIGHTING HYGIENE, MELANOPIC DAYLIGHT EFFICACY RATIOS AND ENERGY EFFICIENCY	OP34 Egidio De Benedetto, IT A FIRST STEP IN PERFORMANCE ASSESSMENT OF A GRAZING LIGHTING SYSTEM FOR MOTORWAYS: A PRACTICAL CASE STUDY CONSIDERING FOG AS THE MAIN INFLUENCE QUANTITY	OP24 Robin Aschan, FI UNIVERSAL BIDIRECTIONAL REFLECTANCE DISTRIBUTION FUNCTION DATA FORMAT FOR MACHINE-DRIVEN SCIENCE
13:00 - 13:15	OP75 Hannah Rolf, DE EFFECTS OF LIGHT ON ATTENTION OF DAYTIME WORKERS: A LABORATORY STUDY	OP44 Leonard De Causmaecker, BE TOWARDS PUBLIC LED LIGHTING WITH MINIMAL IMPACT ON INSECT MOVEMENT	OP28 Guillaume Ged, FR EFFECT OF SURFACE CURVATURE ON SPECULAR GLOSS EVALUATIONS

13:15 - 13:30	<p>OP10</p> <p>Qi Dai, CN</p> <p>THE CONTRIBUTION OF IPRGC-RELATED MELANOPIC ILLUMINANCE TO SPATIAL BRIGHTNESS IN INTERIOR SPACES</p>	<p>OP55</p> <p>Annika Jägerbrand, SE</p> <p>WHAT TO REPORT IN STUDIES OF ANTHROPOGENIC LIGHT AND LIGHT POLLUTION</p>	Discussion
	<p>OP42</p> <p>Caroline Karmann, DE</p> <p>VARIATION IN PHOTOPIC AND MELANOPIC LIGHTING IN SWISS OFFICES: A FIELD STUDY</p>	<p>OP70</p> <p>Tomas Novak, CZ</p> <p>BILLBOARD LIGHTING SYSTEMS MODELING FROM THE POINT OF VIEW OF ITS RADIATION INTO UPPER HEMISPHERE</p>	
13:30 - 13:45			
13:45 - 14:05	Discussion	Discussion	

14:05 - 14:30 **COFFEE BREAK**

	Linhart Hall	Kosovel Hall	M1 Hall
	Oral Presentations		Workshop/Seminar
14:30 - 16:05	<p>PA5-1</p> <p>D2/D1 - Temporal light modulation</p> <p>Chair: Valéry Ann Jacobs, BE</p>	<p>PA5-2</p> <p>D3/D2 - Daylight</p> <p>Chair: Veronica Garcia Hansen, AU</p>	<p>WS3 (Cross CIE)</p> <p>Convenor: Luoxi Hao, CN</p>
14:30 - 14:45	<p>OP12</p> <p>Christophe Martinsons, FR</p> <p>UNTANGLING LIGHT IN "NOISY" LUMINOUS ENVIRONMENTS</p>	<p>OP1</p> <p>Ignacio Acosta, SP</p> <p>CONTINUOUS OVERCAST DAYLIGHT AUTONOMY: A NEW SENSORLESS ALGORITHM FOR LIGHTING SMART CONTROLS</p>	LIGHTING EDUCATION: METHODS, APPROACHES AND EXPERIENCES
14:45 - 15:00	<p>OP21</p> <p>Anders Thorseth, DK</p> <p>TOWARDS A COMPREHENSIVE CALCULATION OF MEASUREMENT UNCERTAINTY FOR TEMPORAL LIGHT MODULATION</p>	<p>OP26</p> <p>Priji Balakrishnan, DE</p> <p>SKYSPECTRA: AN OPENSOURCE DATA PACKAGE OF WORLDWIDE SPECTRAL DAYLIGHT</p>	
15:00 - 15:15	<p>OP62</p> <p>Johannes Ledig, DE</p> <p>UTILIZING THE ROLLING SHUTTER OF ACTIVE PIXEL MATRIX SENSORS TO PERFORM QUALITATIVE MEASUREMENTS OF TEMPORAL LIGHT MODULATION</p>	<p>OP73</p> <p>Amanda Pinheiro, BR</p> <p>DAYLIGHT REQUIREMENTS: AN OVERVIEW OF DEFINITIONS, PROGRESS AND GAPS</p>	
15:15 - 15:30	<p>OP80</p> <p>Annika Stein, DE</p> <p>SYSTEMATIC ERRORS OF TEMPORAL LIGHT MODULATION METRICS RELATED TO SAMPLING DURATION</p>	<p>OP15</p> <p>Alfiya Orman, US</p> <p>IMPLEMENTATION OF A RECONSTRUCTED SPECTRAL SKY DEFINITION IN A LIGHT SIMULATION TOOL AND COMPARISON TO MEASUREMENTS</p>	
15:30 - 15:45	<p>OP60</p> <p>Xiangzhen Kong, NL</p> <p>DEPENDENCE OF TEMPORAL FREQUENCY AND CHROMATICITY ON THE VISIBILITY OF THE PHANTOM ARRAY EFFECT</p>	<p>OP59</p> <p>Dong Hyun Kim, CH</p> <p>PERFORMANCE INVESTIGATION OF CAMERAS USING HDR SENSORS FOR DAYLIGHT GLARE EVALUATIONS</p>	
15:45 - 16:05	Discussion	Discussion	

16:05 - 17:35 **Second foyer**

Poster session 2

20:00 - 00:00 **Grand Hotel Union**

Conference Dinner

**Wednesday, September 20
Morning**

Linhart Hall	
Invited Presentation Chair: Tony Bergen, AU	
08:30 - 09:30	IP03 SEEING AND FEELING CHANGES IN DAYLIGHT OVER TIME Anya Hurlbert, GB
09:30 - 09:55	COFFEE BREAK
09:55 - 10:00	Room configuration

	Linhart Hall	Kosovel Hall	M1 Hall
	Oral Presentations	Workshop/Seminar	Oral Presentations
10:00 - 11:20	PA6-1 D3/D4 - Energy efficiency Chair: Nozomu Yoshizawa, JP	WS4 (D3/D4) Convenors: Jennifer Veitch, CA & Steve Fotios, GB	PA6-2 D4/D6/D8/D1 - Metrology challenges and opportunities Chair: Po-Chieh Hung, US
10:00 - 10:15	OP2 Wenkai Bian, AU A MACHINE-LEARNING-AIDED APPROACH TO THE OPTIMIZATION OF LIGHTING CONTROL SYSTEMS FOR ENERGY SAVINGS AND VISUAL NEEDS	LOOKING AHEAD - LIGHTING FOR PREPAREDNESS	OP29 Paola Iacomussi, IT IS IT TIME FOR A NON-BIOLOGICAL REFERENCE OBSERVER?
10:15 - 10:30	OP45 Kiia Aurora Ainola, FI A MODEL FOR DETECTING DAYLIGHT PROVISION TO SAVE ENERGY AND TO COMPLY WITH THE EN 12464-1 STANDARD		OP39 Tony Bergen, AU THE NEED FOR STANDARDISATION IN THE MANUFACTURE, CALIBRATION AND USE OF BILIRUBIN RADIOMETERS
10:30 - 10:45	OP58 Egemen Kaymaz, TR ANALYSIS OF LIGHTING ENERGY CONSUMPTION THROUGH COST-OPTIMAL INVESTMENTS FOR RESIDENCES: A CASE STUDY IN TURKEY		OP33 Aiman Raza, FR HDR IMAGING FOR LOW LIGHT HYPERSPECTRAL ACQUISITION
10:45 - 11:00	OP71 Sermin Onaygil, TR ENERGY SAVINGS FOR ADAPTIVE LED CONVERSION IN EXISTING ROAD LIGHTING INSTALLATIONS		OP72 Kazim Hilmi Or, TR LI-FI DATA TRANSMISSION PERSPECTIVE IN HUMAN ARTIFICIAL VISION IN BLIND PATIENTS
11:00 - 11:20	Discussion		Discussion

11:20 - 12:30	LUNCH BREAK
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**Wednesday, September 20
Afternoon**

	Linhart Hall	Kosovel Hall	M1 Hall
	Oral Presentations	Oral Presentations	Workshop/Seminar
12:30 - 14:05	PA7-1 D2/D6 - Integrative lighting 3 Chair: Vineetha Kalavally, MY	PA7-2 D1 - Colour Chair: Li-Chen Ou, TW	WS5 (D4) Convenor: Sermin Onaygil, TR
12:30 - 12:45	OP20 Manuel Spitschan, DE GUIDELINES AND CHECKLIST FOR DOCUMENTING AND REPORTING HUMAN LABORATORY-BASED OCULAR LIGHT EXPOSURE INTERVENTIONS	OP64 Jiaye Li, US CHARACTERISING CAM02UCS PREDICTIONS OF PERCEIVED COLOURFULNESS AND HUE CHANGES AT DIFFERENT LIGHT LEVELS DUE TO HUNT EFFECT	METRICS FOR THE DESIGN AND IMPLEMENTATION OF ROAD LIGHTING
12:45 - 13:00	OP19 Niloufar Tabandeh, DE PHYSIOLOGICALLY-RELEVANT SPECTRAL AND ALPHAPHOTOMETRIC CHARACTERISATION OF NATURAL SCENES ACROSS TIME AND SPACE	OP32 Yoshi Ohno, US A COLOUR FIDELITY MODEL BASED ON HUNT EFFECT	
13:00 - 13:15	OP82 Tongyue Wang, CN EFFECTS OF FULL-DAY DYNAMIC LIGHTING PATTERNS ON HORMONE CONCENTRATION, CORE BODY TEMPERATURE AND SUBJECTIVE ALERTNESS AT BEDTIME IN CONFINED SPACES	OP48 Kaida Xiao, GB TESTING COLOUR-DIFFERENCE FORMULAS FROM LMS COLOUR SPACES INSPIRED IN CIELAB	
13:15 - 13:30	OP83 Yanni Wang, CN EFFECTS OF ZERO BLUE LIGHTING ON SLEEP, MOOD AND SUBJECTIVE ALERTNESS OF OCCUPANTS IN ANTARCTIC	OP54 Toshie Iwata, JP METRICS INDICATING PROPERTIES OF LIGHT COLOUR AND SUBJECTIVE EVALUATION OF COLOUR APPEARANCE	

13:30 - 13:45	<p>OP84 Junli Xu, CN EVALUATION OF ANNUAL DYNAMIC LIGHT VARIATION FOR NON-VISUAL EFFECTS: A CASE STUDY IN GROUND FLOOR CLASSROOMS OF CHINESE MIDDLE SCHOOL BASED ON LARK 2.0 SIMULATION TOOL</p>	<p>OP65 Yan Lu, GB A NEW DATABASE OF HUMAN SKIN COLOUR</p>	
13:45 - 14:05	Discussion	Discussion	

14:05 - 14:30	COFFEE BREAK
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	Linhart Hall	Kosovel Hall	M1 Hall
	Oral Presentations		
14:30 - 16:05	<p>PA8-1 D1/D3 - Glare and discomfort Chair: Kaida Xiao, GB</p>	<p>PA8-2 D1/D3 - Indoor lighting Chair: Anna Pellegrino, IT</p>	<p>PA8-3 D4 - Outdoor integrative lighting Chair: Annika Jägerbrand, SE</p>
14:30 - 14:45	<p>OP56 Sneha Jain, CH IS THERE AN EFFECT OF MACULAR PIGMENT DENSITY ON DISCOMFORT GLARE IN INDOOR DAYLIGHT CONDITIONS?</p>	<p>OP50 Xinyi Hao, CN A STUDY OF THE PSYCHOLOGICAL GAIN OF ARTIFICIAL VIEW WINDOWS IN A WINDOWLESS SPACE</p>	<p>OP7 Shahab Gorjimahlbani, GB DO FEMALE PEDESTRIANS EXPRESS A LOWER DEGREE OF REASSURANCE THAN MALE PEDESTRIANS? AND DOES ROAD LIGHTING HELP?</p>
14:45 - 15:00	<p>OP18 Geraldine Quek, SG INVESTIGATING MULTIPLE GLARE SOURCES IN DAYLIT CONDITIONS</p>	<p>OP27 Craig Bernecker, US 50 YEARS LATER: EXTENDING THE WORK OF JOHN FLYNN AND CIE STUDY GROUP A</p>	<p>OP47 Aysheh Alshdaifat, GB ROAD LIGHTING AND ROAD USER ALERTNESS AT NIGHTTIME: TESTING THE NULL FINDINGS OF GIBBONS AND BHAGAVATHULA</p>
15:00 - 15:15	<p>OP46 Zeynep Ekim, SE PERCEPTION OF GLARE IN RELATION TO THE CIE SCALE ON UNIFIED GLARE RATING (UGR) AND THE IMPACT OF AMBIENT LIGHT ON BOTH UGR AND SUBJECTIVE GLARE INDEX SCALES (SGI)</p>	<p>OP43 Siyao Cui, CN PHOTOMETRIC, PSYCHOLOGICAL AND NEUROPHYSIOLOGICAL ASPECTS OF DIFFERENCES SEATING LOCATIONS IN SELF-STUDY ROOM</p>	<p>OP78 Péter Schwarcz, HU CALCULATION METHOD AND EVALUATION OF POSSIBLE EFFECT ON CIRCADIAN SYSTEM OF DRIVERS UNDER TYPICAL STREETLIGHTING CONDITIONS</p>
15:15 - 15:30	<p>OP51 Naoya Hara, JP VISUAL CHARACTERISTICS IN THE DISCOMFORT GLARE EVALUATION MODEL IN ACCORDANCE WITH THE VISUAL SYSTEM</p>	<p>OP85 İpek Yalçın, TR ATMOSPHERE DECIPHERED: LUMINANCE CONTRAST MEASURE FOR LIGHTING DESIGN</p>	<p>OP87 Xianxian Zeng, CN EXPLORING THE RESTORATIVE POTENTIAL OF DAYTIME AND NIGHTTIME SCENERY IN CAMPUS SPACE: PHYSIOLOGICAL, PSYCHOLOGICAL AND BEHAVIOURAL ANALYSIS</p>
15:30 - 15:45	<p>OP88 Steve Fotios, GB DISCOMFORT FROM GLARE: WHY WE NEED A CIE TECHNICAL COMMITTEE TO REPORT ON BEST PRACTICE FOR COMMONLY USED METHODS AND TO PROPOSE NEW METHODS</p>	<p>OP9 Kevin Houser, US A CORE LIGHTING CURRICULUM FOR UNIVERSITY STUDENTS</p>	<p>OP49 Ronald Gibbons, US NATURALISTIC ASSESSMENT OF THE IMPACT OF ROADWAY LIGHTING ON MELATONIN</p>
15:45 - 16:05	Discussion	Discussion	Discussion

	Linhart Hall
16:05 - 16:35	CLOSING SESSION

	Konnex klub
18:00 - 22:00	Badminton tournament

Posters

Poster session 1: Monday, September 18, 16:05 - 17:35

NOTE: Presented Posters are shown with the respective presented poster presentation number (PP) and the Posters with Poster number (PO).

PP9	Ruili He	United Kingdom	VISUAL COLOUR-DIFFERENCE ASSESSMENT OF 3D PRINTED SAMPLES
PP11	Luke Hellwig	United States	IMPROVEMENTS TO CIECAM16 AND FUTURE DIRECTIONS
PP15	Marshal Maskarenj	Belgium	MIXED EFFECT OF TIME OF DAY AND CORRELATED COLOUR TEMPERATURE ON DISCOMFORT GLARE
PO02	Suphatsara Asarasri	Thailand	THE EFFECT OF VARIOUS LED LIGHT HUES AND COLOR SATURATION ON STRESS MITIGATION FOR OFFICE WORKERS: AN EXPERIMENTAL STUDY
PO24	Qiang Liu	China	EVALUATING THE COLOR PREFERENCE OF LIGHTING USING DISPLAY SIMULATION: A VALIDATION WITH REAL SCENE OBSERVATION DATA
PO27	Naomi Miller	United States	TEMPORAL LIGHT MODULATION ("FLICKER"): A SET OF WAVEFORM AND METRIC TARGETS FOR INDUSTRY DISCUSSION
PO28	Kazim Hilmi Or	Turkey	INDIVIDUAL DIMENSIONS OF HUMAN-CENTERIC LIGHTING
PO34	Beatrice Sarti	Italy	SIMPLIFYING THE COLOUR RENDERING INDEX
PO40	Kazuto Takase	Japan	BCD LUMINANCE ESTIMATION MODEL REFLECTING OPTICAL AND RECEPTIVE FIELD CHARACTERISTICS OF VISION
PO47	Diana Araiza	United States	DYNAMIC LIGHTING CONTROL FOR ENERGY SAVINGS BASED ON JUST NOTICEABLE DIFFERENCE EXPERIMENT FOR MUSEUMS AND RETAIL
PO74	Annabelle Hill	Denmark	EVALUATION OF EMOTIONS INDUCED BY BIOPHILIC LIGHTING PATTERNS USING EEG AND QUALITATIVE METHODS
PO83	YeSeul Baek	South Korea	PERCEPTUAL COLOUR CHANGES IN HIGH-DYNAMIC-RANGE CONDITIONS: AN EXPERIMENT ON APPEARANCE MATCHING AND COMPARISON WITH CIECAM02
PO95	Dorukalp Durmus	United States	QUANTIFYING THE BRIGHTNESS OF CHROMATIC LIGHTING IN A WIDE FIELD OF VIEW
PO97	Dominik Dušek	Czech Republic	EVALUATION OF LIGHT DISTURBANCE SOURCES AND THEIR EFFECT ON HUMAN VISION
PO107	Jeffery Hovis	Canada	COLOUR VISION DEFICIENCIES IN THE DIGITAL TIME: A SURVEY OF USER EXPERIENCES WITH MODIFICATIONS TO AID THEIR COLOUR DISCRIMINATION
PO114	Hyeran Kang	South Korea	PHANTOM ARRAY VISIBILITY ACCORDING TO SPECTRAL DISTRIBUTION
PO122	Manuel Melgosa	Spain	USING MUNSELL SOIL-COLOR CHARTS IN MARS AND EARTH
PO126	Balázs Vince Nagy	Hungary	DARK ADAPTATION MODELING
PO131	Michal Vik	Czech Republic	COLOR DISCRIMINATION AT LOW ADAPTATION LUMINANCE
PO135	Aiman Raza	France	PROTOCOL TO SIMULATE AND EVALUATE SUNGLASS FILTERED COLOUR VISION THROUGH IMAGE COLOUR APPEARANCE MODELS
PO146	Ágnes Urbin	Hungary	OBSERVATION OF ADAPTED WHITE UNDER DIFFERENT STATES OF CHROMATIC ADAPTATION
PO148	Michal Vik	Czech Republic	STUDY OF INTER-INSTRUMENT AGREEMENT IN WHITENESS MEASUREMENTS
PO149	Martina Víková	Czech Republic	STUDY OF EXPOSURE CONDITION WITH RELATION TO COLOR CHANGE OF PHOTOCHROMIC SUBSTRATES
PO170	Chan-Su Lee	South Korea	AN ANALYTIC APPROACH TO THE VISIBILITY MODEL OF THE PHANTOM ARRAY EFFECT
PO178	Pedro Bustamante	Spain	DAYLIGHT SPECTRUM INDEX: MEASURING THE DAYLIGHTING AFFINITY OF ELECTRIC LIGHTS
PP5	Alejandro Ferrero	Spain	PRELIMINARY STUDY FOR TRACEABILITY ON SPECULAR GLOSS
PP8	Lou Gevaux	France	METHOD FOR TRACEABILITY OF MULTISCALE BIDIRECTIONAL REFLECTANCE DISTRIBUTION FUNCTION MEASUREMENTS
PP10	János Hegedűs	Hungary	LED LIFETIME TESTS FOR CIRCUIT SIMULATION MODELLING
PP14	Ville Mantela	Finland	TEMPORAL LIGHT ARTEFACT METRICS OF COMMERCIAL LED LAMPS

PP19	Masoud Rastgou	Finland	VALIDATION OF A MICRO-REFLECTOMETER FOR ACCURATE CHARACTERIZATION OF THIN FILM COATINGS
PO09	Guillaume Dotreppe	Belgium	ANGULAR DEPENDENCY OF THE LIMITING PHOTOMETRIC DISTANCE
PO10	Dominique Dumortier	France	LIGHTMONITOR: a new wearable device measuring light spectrum and day/night activity
PO22	Vineetha Kalavally	Malaysia	SPECTRAL RECONSTRUCTION AND SAMPLING FREQUENCY DECISIONS IN WEARABLE LIGHT DOSIMETRY
PO30	Jianguan Pan	China	RESEARCH ON THE DETERMINATION OF THE REFERENCE IN MEASUREMENT OF THE OPTICAL FIELD OF NED
PO33	Ángela María Sáez	Spain	FRAMEWORK FOR EVALUATION OF PROCEDURES FOR HDR LUMINANCE IMAGING MEASUREMENTS
PO35	Dmitri Scums	Belarus	PRECISION APPROXIMATION OF CIE 1931 COLOR-MATCHING FUNCTIONS BY ANALYTIC FUNCTIONS
PO39	Florian Stuker	Switzerland	PERFORMANCE CHARACTERIZATION OF A LARGE REFURBISHED 4 m INTEGRATING SPHERE
PO41	Juliette van Duijnhoven	Netherlands	ILLUMINANCE READINGS FROM THIRTEEN SMARTPHONES: MEASUREMENT ACCURACIES AND APPLICABILITY
PO44	Bing Zhang	China	RESEARCH ON THE BRIGHTNESS LIMIT OF MEDIA FACADE IN MIXED COMMERCIAL AND RESIDENTIAL STREETS
PO45	Yuqin Zong	United States	NEW GENERATION OF REFERENCE PHOTOMETERS FOR REDUCED UNCERTAINTY
PO50	Yunni Cho	Switzerland	TONE-MAPPING REQUIREMENTS IN REAL-TIME VIDEOS FOR STUDYING THE DYNAMISM OF VIEWS-OUT IN VIRTUAL REALITY
PO57	András Poppe	Hungary	IMPLEMENTATION OF A HIGH-SPEED LED CHARACTERISATION SYSTEM
PO65	Filip Novák	Czech Republic	USING A LUMINANCE ANALYSER TO MEASURE THE LUMINANCE OF CELESTIAL BODIES DURING ECLIPSES AND OTHER ASTRONOMICAL MEASUREMENTS
PO68	Carolina Guidolin	Germany	NOVEL MULTISPECTRAL ALPHA-OPIC AND UV CORNEAL IRRADIANCE LIGHT LOGGER WITH INTEGRATED ACCELEROMETER FOR USE IN FIELD RESEARCH
PO69	Veronika Štampfl	Slovenia	INFLUENCE OF PHOTOGRAPHIC LIGHT-SHAPING ATTACHMENTS ON COLOUR PROPERTIES OF THE ORIGINAL LIGHT SOURCE
PO70	Yang Ding	China	SURFACE FACTORS AFFECTING THE MORPHOLOGY OF NIGHT SKY LIGHT POLLUTION IN PRAIRIE TOWNS
PO77	Tsung-Hsun Yang	Taiwan	WHITE LED CHARACTERISTIC SPECTRUM OF VARIOUS CCT WITH OPTIMAL COLOUR FIDELITY INDEX AND COLOUR RENDERING INDEX
PO79	María Teresa Aguilar-Carrasco	Spain	A FIRST APPROACH TO A PREDICTIVE MODEL OF THE SKY SPECTRAL POWER DISTRIBUTION IN THE MEDITERRANEAN AREA
PO82	Frédéric Bernard Leloup	Belgium	THE UGR CORRECTION FACTOR: A CASE STUDY
PO84	Nina Basic	Switzerland	INTERCOMPARISON OF BIDIRECTIONAL REFLECTANCE DISTRIBUTION FUNCTION MEASUREMENTS AT IN- AND OUT-OF-PLANE GEOMETRIES
PO88	Benjamin Legrand	France	A NEW BRDF MODEL FOR IN-SITU OPTICAL AND THERMICAL MATERIAL CHARACTERIZATION
PO90	Cheng-Hsien Chen	Taiwan	CURVE FITTINGS OF SPECTRAL RADIANCES OF R, G, AND B MINI-LED SAMPLES MEASURED BY A 2D-SPECTRORADIOMETER
PO91	Annegret Dahlmann-Noor	United Kingdom	MEASURING THE VISUAL ENVIRONMENT OF CHILDREN AND YOUNG PEOPLE AT RISK OF MYOPIA: A SCOPING REVIEW – INITIAL FINDINGS
PO94	Xiaoming Xu	China	URBAN ARTIFICIAL LIGHT SPECTRUM DISTRIBUTION MODEL OVER NIGHT SKY
PO96	Martin Dury	United Kingdom	AN ASSESSMENT OF TWENTY YEARS OF TRAP DETECTOR ABSOLUTE RESPONSIVITY MEASUREMENTS
PO103	Gyula Lipák	Hungary	MODELLING THE SPECTRAL POWER DISTRIBUTION OF MONOCHROMATIC AND PHOSPHOR-CONVERTED POWER LEDs
PO113	Liviu Ivanescu	Canada	SPECTRORADIOMETER CALIBRATION WITH UAV-BORNE LED
PO118	Armin Sperling	Germany	UNCERTAINTY EVALUATION OF HORTICULTURAL LEDs AND MONTE CARLO SIMULATION APPROACH
PO125	Emi Murayama	Japan	IMPACT OF DAYLIGHT CHANGES ON PSYCHOLOGICAL AND PHYSIOLOGICAL ASPECTS OF RESIDENTS IN AN APARTMENT BUILDING
PO127	Siarhey Nikanenka	Belarus	PROBLEMS OF MODERN LED LIGHT SOURCES PHOTOMETRIC MEASUREMENTS
PO133	Bertalan Pizág	Hungary	INVESTIGATING THE FRAME ASSEMBLY ISSUES OF NEAR-FIELD GONIOPHOTOMETERS USING A VIRTUAL INSTRUMENT AND THE MONTE CARLO METHOD
PO134	Mario Erwin Quiroga Riaño	Colombia	INNOVATIVE DEVICE TO VERIFY AND/OR CALIBRATE LUXMETERS (LIGHT METERS)

PO138	Wataru Shichi	Japan	A DEVELOPMENT OF MICRO-PRISM ARRAYS ACHIEVING IMAGE PROJECTION BY PRINCIPLE OF LIGHTING: OPTICAL DESIGN AND NUMERICAL ESTIMATION OF LIGHTING PERFORMANCE
PO139	Nathan Slembrouck	Belgium	SNAPSHOT AND LINESCAN HYPERSPECTRAL IMAGING FOR VISUAL APPEARANCE MEASUREMENTS
PO144	Toshihiro Toyota	Japan	A DEVELOPMENT OF MICRO-PRISM ARRAYS FOR IMAGE PROJECTION USING PRINCIPLE OF LIGHTING OPTICS: FEASIBILITY STUDY OF THE IMPLEMENTATION
PO153	Ling Xia	China	CALIBRATE THE ABSOLUTE LUMINANCE OF HDR PANORAMAS USING A REGULAR TETRAHEDRON ILLUMINANCE METER
PP2	Michèle Atié	France	METHOD FOR EVALUATING FIDELITY OF RESTITUTION OF SUBJECTIVE IMPRESSIONS IN IMMERSIVE VIRTUAL REALITY IN DAYLIT INTERIOR SCENES
PP4	Kynthia Chamilothoni	Netherlands	THE IMPACT OF COLOUR AND SIMULATION DETAIL ON SUBJECTIVE IMPRESSIONS OF RENDERED SCENES IN IMMERSIVE VIRTUAL REALITY
PP16	Stuart Mucklejohn	United Kingdom	QUANTIFYING THE POTENTIAL IMPACT OF MAINTENANCE FACTORS ON LIGHTING UNIFORMITY IN HORTICULTURAL INSTALLATION
PP17	Yuki Oe	Japan	EVALUATION STRUCTURE ON PREFERENCE OF PAINTING'S APPEARANCE IN MUSEUM LIGHTING
PP23	Zeng Xianxian	China	EVALUATION OF THE COLOUR HARMONY OF ARTIFICIAL LIGHT AT NIGHT IN URBAN COMMERCIAL DISTRICT UTILIZING HYPERSPECTRAL IMAGING
PP25	Valerio Lo Verso	Poland	TRAINING ON SUSTAINABLE DAYLIGHTING: THE NLITED PROJECT
PP26	Bo Tang	China	THE INFLUENCE OF THE CONTENTS OF DYNAMIC WINDOW VIEW ON THE HEALING EFFECT OF PEOPLE IN ISOLATED, CONFINED AND EXTREME ENVIRONMENT
PP29	Songbo Zhang	China	ENERGY SAVING WITHOUT COMPROMISING HUMAN COMFORT: A FIELD STUDY OF SMART LIGHTING IN OFFICE
PP7	Dionyz Gasparovsky	Slovakia	LIGHTING ENVIRONMENT IN URBAN PARKLANDS AND GARDENS: CASE MODELS FOR BRATISLAVA
PP20	Enoch Saint-Jacques	France	INVESTIGATING THE EVOLUTION OF ROAD SURFACE DESCRIPTORS ACCORDING TO OBSERVATION ANGLES USING A DATABASE OF THE REFLECTION PROPERTIES OF URBAN MATERIALS
PP22	Christoph Schulze	Germany	CHARACTERISATION OF ROAD REFLECTION IN RELATION TO VEHICLE HEADLAMP ILLUMINATION
PP28	Lanlan Wei	Slovenia	EXPLORE THE RELATIONSHIP BETWEEN AMBIENT LIGHT AND CYCLING FREQUENCY AND SPEED
PP3	Simon Belgers	Netherlands	DEGRADATION OF BIOLOGICAL POTENCY IN LED LIGHT SOURCES WITH LIFETIME
PP6	Francesca Fragiasso	Italy	DOES LIGHT AFFECT FUNGAL GROWTH? EXPERIMENTAL ANALYSIS UNDER MONOCHROMATIC LED SOURCES
PP13	Yandan Lin	China	THE EFFECT OF LIGHT INTERVENTION ON EMOTION BASED ON THE COMBINED IMPACT OF VISUAL PREFERENCE AND NON-VISUAL INFLUENCE
PP18	Masayuki Osumi	Japan	SPARKLE AND GRAININESS INDEX MEASUREMENT OF METALLIC COATINGS WITH MATTING AGENT
PO03	Laura Bellia	Italy	CORRELATING PHOTOPIC AND MELANOPIC REFLECTANCE TO SURFACE COLOUR ATTRIBUTES FOR INDOOR ENVIRONMENTS DESIGN
PO06	Sabine de Groot	Netherlands	A SIMULATION-BASED METHOD TO QUANTIFY DAYLIGHT EXPOSURE AND ITS EFFECT ON THE ONSET OF MYOPIA IN PRIMARY SCHOOL CHILDREN
PO11	Dorukalp Durmus	United States	CALCULATING SPATIAL EFFICIENCY TO QUANTIFY INDOOR LIGHTING SUSTAINABILITY
PO16	Jenifer Godoy Daltrozo	Brazil	LIGHTING EDUCATION: A COMPARISON OF BRAZILIAN AND ITALIAN CONTEXT
PO17	James Greenberg	United States	EMULATING DAYLIGHT IN A NEONATAL INTENSIVE CARE UNIT WITH A NOVEL SPECTRALLY TUNABLE LIGHTING SYSTEM
PO18	Lishu Hong	China	WINDOW-VIEW-RECOGNITION BASED ACCEPTABLE DYNAMIC DAYLIGHTING OF RESIDENCE
PO20	Daisuke Ito	Japan	PROPOSAL FOR A METHOD OF EVALUATING CONTRAST GLARE AND SATURATION GLARE IN DAYLIT INTERIORS USING VERTICAL ILLUMINANCE AT THE EYE
PO23	Yandan Lin	China	THE EFFECT OF INDOOR LIGHTING ON HUMAN PSYCHOLOGY AND PHYSICAL ACTIVITY DURING COVID-19 LOCKDOWN: A SURVEY
PO61	Yandan Lin	China	HOW DAYLIGHT LED INFLUENCE HUMAN VISUAL AND NON-VISUAL PERFORMANCE

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PO130	Kazim Hilmi Or	Turkey	THE SAME LIGHT, DIFFERENT EFFECTS AT THE SAME TIME: POSITIVE AND NEGATIVE EFFECTS OF THE VISIBLE LIGHT ON THE RETINA
PO60	Benjamin Legrand	France	COLORIMETRIC CALIBRATION BETWEEN RGB AND LMSR SPACES
PO137	Dmitri Scums	Belarus	ON THE QUESTION OF THE UNCERTAINTY OF CIE 1931 COLOR-MATCHING FUNCTIONS
PO141	Florian Stuker	Switzerland	NEW CALIBRATION STANDARDS AND METHODS FOR RADIOMETRY AND PHOTOMETRY AFTER PHASEOUT OF INCANDESCENT LAMPS
PO26	Naomi Miller	United States	A CASE STUDY OF TUNABLE WHITE LED LIGHTING WITH NETWORKED LIGHTING CONTROLS
PO32	Pracki Piotr	Poland	LIMITATIONS IN CEILING AND WALL ILLUMINATION FOR GENERAL LIGHTING IN INTERIORS
PO36	Rongdi Shao	China	STUDY OF DAYLIGHT HEALING FOR LONG-TERM QUARANTINED OCCUPANTS DURING THE COVID-19 PANDEMIC
PO37	Naoko Shinohara	Japan	EFFECTS OF LIGHT WITH THE SAME CORRELATED COLOUR TEMPERATURE BUT DIFFERENT COLOUR OF APPEARANCE ON THE IMPRESSION OF A SPACE
PO42	Yujie Wu	China	SIMULATION OF ENERGY CONSUMPTION IN BUILDINGS WITH SMART BLINDS
PO48	Miguel Angel Campano Laborda	Spain	OFFICE LIGHTING SMART CONTROLS BASED ON USER REQUIREMENTS
PO49	Cláudia Amorim	Brazil	METRICS AND MONITORING OF THE NON-VISUAL EFFECTS OF LIGHT INDOORS: A SYSTEMATIC REVIEW
PO52	Johanna Enger	Sweden	PERCEPTUAL METRICS FOR LIGHT QUALITY IN SPATIAL ENVIRONMENTS
PO55	Parvathy Biju	Sweden	A PILOT TEST OF DAYLIGHTING AND ELECTRIC LIGHTING TO ADDRESS VISUAL AND NON-VISUAL REQUIREMENTS
PO62	Kai Liu	China	RESEARCH ON THE EVALUATION METHOD OF SPATIAL BRIGHTNESS FOR CLASSROOM LIGHTING ENVIRONMENTS
PO64	Ayaka Nomura	Japan	INFLUENCE OF INDIVIDUAL'S LIGHT ENVIRONMENT EXPERIENCES ON SELECT OF SEAT AND LIGHTING SUITABLE FOR EACH TASK IN ACTIVITY BASED WORKING
PO67	parinaz sabet	Italy	THE EFFECTS OF URBAN MORPHOLOGY ON WINDOW VIEW
PO71	Hang Su	China	IMPACT OF NATURAL LIGHT PENETRATION ON OCCUPANTS IN UNDERGROUND SPACE: AN FIELD QUASI-EXPERIMENT STUDY
PO75	Noriko Umemiya	Japan	CHARACTERISTICS OF LIGHT EVALUATION OF ELDERLY PEOPLE UNDER HIGHLY ILLUMINATED ENVIRONMENTS
PO78	Chikako Ohki	Japan	EVALUATION STRUCTURE OF VISUAL ENVIRONMENT CAUSED BY WINDOWS: RELATIONSHIP BETWEEN VIEW AND DAYLIGHTING
PO80	Yuka Akuzawa	Japan	REPRODUCTION OF DAYLIT ENVIRONMENT IN WORKSPACES USING LED LIGHTING: VERIFICATION OF THE INFLUENCE OF VIEW FROM A WINDOW
PO81	Kaori Arano	Japan	VIEW EVALUATION INDEX USING VISIBLE VOLUME IN OFFICE BUILDINGS
PO89	Yuki Budoh	Japan	CAUSAL CONNECTION BETWEEN PSYCHOLOGICAL VIEW AND DAYLIGHTING EVALUATION IN LIVING SPACES
PO92	Shujian Dai	China	A STUDY OF THE EFFECTS OF ARTIFICIAL LIGHTING COLOURS ON OCCUPANTS' SPATIAL PERCEPTION AND CARDIAC RESPONSES
PO93	Verena de Kok	Netherlands	(DAY)LIGHTING CONDITIONS IN DUTCH HOME OFFICE SPACES – A FIRST INVENTORY
PO98	Yuri Fujiwara	Japan	VALIDATION OF THE EFFECTIVENESS OF MINDFULNESS CONTENT WITH LED PANEL LIGHT FOR HOME
PO104	Hillevi Hemphälä	Sweden	CAN INACCURATE POWER IN SPECTACLES AFFECT VISUAL ABILITY AND CAUSE EYESTRAIN WHEN WORKING NIGHTS IN AMBER LED LIGHTING?
PO105	Carolina Hiller	Sweden	THE PERCEPTION OF LIGHT COLOUR IS RELATIVE – A PILOT STUDY DESCRIBING PERCEIVED LIGHT COLOUR
PO109	Shinichi Inoue	Japan	NEUROPHYSIOLOGY-BASED EVALUATION METHOD IN LIGHTING ENVIRONMENT FOR BRIGHTNESS PERCEPTION OF SIMPLE TARGETS
PO115	Yuki Kato	Japan	A STUDY ON RELAXATION AND REFRESHMENT DURING SELF-SEAT BREAKS IN OFFICES
PO116	MIKA Kato	Japan	INFLUENCE OF SPATIAL AVERAGE LUMINANCE RANGE AND EVALUATION TECHNIQUE ON PERCEIVED SPATIAL BRIGHTNESS
PO121	Juanjie Li	China	THE COMPREHENSIVE STUDY OF INTEGRATIVE LIGHTING ON THE PERFORMANCE, ALERTNESS, MOOD, AND EYESTRAIN OF SCHOOL CHILDREN

PO123	Etsuko Mochizuki	Japan	LIGHTING ENVIRONMENT DURING BREAKS WHEN WORKING FROM HOME
PO128	Shoki Nishihara	Japan	SPACIOUSNESS EVALUATION DEVIATION CAUSED BY BRIGHTNESS DIFFERENCES BETWEEN REFERENCE AND COMPARATIVE CONDITIONS IN THE MAGNITUDE ESTIMATION METHOD
PO129	Shino Okuda	Japan	PREFERRED LIGHTING FOR UKIYO-E, JAPANESE WOODBLOCK PRINT PAINTINGS
PO132	Matej Pekolj	Slovenia	SHORTCOMINGS IN DETERMINING THE LENI INDICATOR ACCORDING TO THE EN 15193 STANDARD
PO136	Mina Sagawa	Japan	REFLECTED GLARE ON MUSEUM EXHIBITS WITH DISPLAY CASES: AN EXAMINATION OF A GLARE PREDICTION METHOD BASED ON LUMINANCE DISTRIBUTION
PO140	Cláudia Amorim	Brazil	LIGHTING EDUCATION: ANALYSIS OF THE INTERNATIONAL PANORAMA THROUGH A SYSTEMATIC LITERATURE REVIEW
PO142	Naoyuki Suzuki	Japan	FUNDAMENTAL STUDY OF METHODS FOR PREDICTION OF THE BRIGHTNESS OF VISUAL OBJECT BY USING THE STANDARD DEVIATION OF LUMINANCE LOGARITHM
PO145	Saori Ueno	Japan	ACHIEVING ENERGY SAVINGS AND STIMULATING COMMUNICATION IN OFFICE SPACES USING TASK AMBIENT LIGHTING
PO150	Lei Wang	China	STUDY ON THE INFLUENCE OF DIMMING SWITCH STRATEGY TO LABORATORY ANIMALS
PO152	Karin Wendin	Sweden	PERCEPTION OF LIGHT QUALITIES – A DESIGNED STUDY ON LIGHT SOURCES IN COMBINATIONS
PO154	Lifeiyue Xiang	Japan	REPRODUCTION OF DAYLIGHTING BY LED LUMINAIRES SIMULATING ILLUMINANCE AND CORRELATED COLOUR TEMPERATURE FLUCTUATION: VERIFICATION OF PHYSIOLOGICAL AND PSYCHOLOGICAL STRESS
PO157	Hanui Yu	Japan	PSYCHOLOGICAL AND PHYSIOLOGICAL ANALYSIS ON THE EFFECT OF PEACEFULNESS OF MIZUKAGE VIDEOS
PO159	Yandan Lin	China	IMPACTS OF LED TEMPORALLY MODULATED LIGHT ON ATMOSPHERE PERCEPTION
PO161	Sevda Aliparast	Turkey	AN ENERGY EFFICIENT HUMAN CENTERED LIGHTING FOR OPEN PLAN OFFICES WITH COMFORT CRITERIA
PO164	Roman Dubnicka	Slovakia	INFLUENCE OF THE DENSITY OF THE MEASUREMENT AND CALCULATION GRID ON PHOTOMETRIC PARAMETERS OF INDOOR WORKPLACES
PO168	Yuto Horiuchi	Japan	IMAGE PHOTOMETRY FOR EVALUATING LIGHTING ENVIRONMENTS: IMPROVEMENT IN SPEED AND ACCURACY BY USING RAW FORMAT PHOTO DATA
PO169	Matej Bernard Kobav	Slovenia	INTEGRATIVE LIGHTING LUMINAIRE WITH HIGH CCT RANGE AND VERY HIGH CRI
PO171	Henri Juslén	Finland	THE CARBON FOOTPRINT OF LIGHTING RENOVATIONS OVER A TEN-YEAR USAGE PERIOD IN THE EU REGION
PO01	Maria Nilsson Tengelin	Sweden	ACCURATE MEASUREMENT OF DRIVERS' REACTION TIMES IN THREE DIFFERENT ROAD LIGHTING SETTINGS
PO04	Irene Celli	Italy	A POWER-EFFICIENT SMART LASER-PHOTOLUMINESCENT-LIGHT (LPL) WITH PV- SYSTEM INTEGRATION: EXPERIMENTAL ANALYSIS AND OPTIMIZATION FOR PEDESTRIAN ROADS
PO08	Raquel Yerani Cruz	Mexico	DAYLIGHTING UNDER SKY CONDITIONS IN AN URBAN AREA
PO13	Maan Balela	United Kingdom	USING A CASE-CONTROL METHOD TO EXPLORE THE IMPACT OF LIGHTING ON CYCLE RATES: INVESTIGATING THE CHOICE OF CASE AND CONTROL TIME PERIODS
PO14	Demet Yesiltepe	United Kingdom	DARKNESS IS A GREATER DETERRENT TO CYCLING IN SUBURBAN THAN IN CITY CENTRE LOCATIONS
PO15	Dionyz Gasparovsky	Slovakia	PUBLIC LIGHTING IN PERIODS OF ENERGY CRISIS AND OTHER UNUSUAL SITUATIONS
PO19	Dmitrii Ingi	Finland	PUBLIC PARTICIPATION GEOGRAPHIC INFORMATION SYSTEM AS A TOOL FOR OUTDOOR LIGHTING STUDIES
PO21	Annika Jägerbrand	Sweden	ASSESSING THE USE OF ENVIRONMENTAL LIGHTING ZONES FOR THE PROTECTION OF AQUATIC NATURE CONSERVATION AREAS
PO31	Henrika Pihlajaniemi	Finland	MEASURING DARKNESS FOR SAFE AND SUSTAINABLE EXPERIENCES IN NORTHERN CITIES
PO43	Xianxian Zeng	China	COMPARING AFFECTIVE EXPERIENCE OF IN-SITU WALKING BETWEEN DAYTIME AND NIGHTTIME USING WEARABLE BIOSENSORS
PO46	Yuki Akizuki	Japan	APPLICATION OF NIGHT-TIME LANDSCAPE LIGHTING TO DISASTER PREVENTION
PO51	Paolo Di Lecce	Italy	A PROPOSAL OF EXTENSION OF DYNAMIC ADAPTIVE ROAD LIGHTING CONCEPT THROUGH A REAL CASE STUDY
PO53	Shahab Gorjimahlabani	United Kingdom	MEASURING PEDESTRIAN REASSURANCE: COMPARING EVALUATIONS GIVEN BY SOLO PEDESTRIANS AND ACCOMPANIED GROUPS
PO56	Valéry Ann Jacobs	Belgium	REDUCING STRAY LIGHT IN OUTDOOR LUMINAIRES
PO59	Paola Iacomussi	Italy	ERRORS IN GONIOPHOTOMETRIC CHARACTERISATION OF SURFACES

PO63	Kosuke Miyamoto	Japan	ROAD SURFACE REFLECTION CHARACTERISTICS OF PERMEABLE PAVEMENT USED FOR EXPRESSWAYS IN JAPAN
PO66	Agathe Pharel	Belgium	THE ECOLOGICAL SHIFT OF OUTDOOR LIGHTING: TOWARDS A MULTIDISCIPLINARY APPROACH TO DESIGNING ADAPTIVE INFRASTRUCTURES
PO73	Dorian Talon	France	LED LIGHTING IN ROAD TUNNELS: SIMULATION OF ENERGY-EFFICIENT ADAPTIVE LIGHTING SCENARIOS
PO85	Karin Bieske	Germany	HEADLAMPS FOR WORKING OUTDOORS IN THE DARK
PO87	Vincent Boucher	France	MATHEMATICAL CONSIDERATIONS FOR ROAD REFLECTION PROPERTIES
PO108	Yoshihisa Ikeda	Japan	LIGHTING CONDITIONS FOR THE VISIBILITY OF OBJECTS ON THE ROAD SURFACE DURING TUNNEL DRIVING
PO111	Tomoki Maehama	Japan	EVALUATION OF DISCOMFORT GLARE IN ROAD LIGHTING USING FIXED LOW MOUNTING HEIGHT LUMINAIRES
PO117	Shunsuke Kohko	Japan	VISIBILITY TO DRIVERS OF PEDESTRIANS CROSSING A ROAD WITH A PRO-BEAM ROADWAY LIGHTING SYSTEM
PO143	Youhei Takahashi	Japan	PROPOSAL OF MAINTENANCE MANAGEMENT METHOD FOR ROAD LIGHTING FACILITIES USING UNMANNED AERIAL VEHICLES
PO147	Lodovica Valetti	Italy	AN EXPLORATORY STUDY TO ASSESS OUTDOOR LIGHTING IN URBAN CONTEXTS CONSIDERING IMPLICATIONS ON HUMAN HEALTH AND WELLBEING
PO158	Feng Zang	China	RESEARCH ON THE DEVELOPMENT PATH OF KEY TECHNOLOGIES BASED ON SMART LIGHT POLE SYSTEM
PO162	Jorge Garcia Marquez	France	AIRBORNE LUMINANCEMETER FOR OBTRUSIVE LIGHT MEASUREMENTS
PO165	Ezgi Erturk	United Kingdom	THE IMPACT OF LIGHT AND DARK ON CRIME IN LONDON
PO173	Yoshiyuki Sagane	Japan	VISIBILITY PERFORMANCE OF LOW POSITION ROAD LIGHTING SYSTEM
PO07	Yi-Sheng Chen	Taiwan	USING DYNAMIC LIGHT TO REGULATE SLOW OSCILLATIONS OF BRAIN TO IMPROVE SLOW WAVE SLEEP AND MEMORY CONSOLIDATION
PO25	Katja Malovrh Rebec	Slovenia	NON IMAGE FORMING HUMAN RESPONSES TO DIFFERENT LIGHTING CONDITIONS IN BUILT ENVIRONMENT: PRECISE MEASUREMENTS
PO38	Uday Nakade	Germany	SIMULATION OF ALPHA-OPIC CORNEAL IRRADIANCE ACROSS DIFFERENT HEAD SHAPES USING PHYSICALLY REALISTIC SPECTRAL RENDERING
PO86	Simone Bonavia	United Kingdom	THE ROLE OF SPATIAL DISTRIBUTION IN METRICS FOR NON-VISUAL RESPONSE TO LIGHT
PO106	Dandan Hou	China	VALIDATION OF DIURNAL CIRCADIAN LIGHTING ACCUMULAITON MODEL BASED ON A LIGHT HABIT SURVEY OF 448 CHINESE PATICIPANTS
PO124	Jan Škoda	Czech Republic	THE MEASUREMENT UNCERTAINTY OF THE IMAGING LUMINANCE MEASUREMENT DEVICES
PO156	Yonghong Yan	China	STUDY ON THE INFLUENCE OF LOW ILLUMINANCE LIGHTING ENVIRONMENT ON VISUAL AND COGNITIVE FUNCTION OF MULTIPLAYER ONLINE BATTLE ARENA GAMERS
PO160	Yandan Lin	China	COLOUR CONSTANCY FOR LOW-ILLUMINANCE SCENES BASED ON BRIGHT REGION
PO163	Jan Coosemans	Belgium	TIME-SEQUENTIAL RGB IMAGING WITH A MULTISPECTRAL ILLUMINATION SOURCE AND A GATED CMOS CAMERA
PO174	Midori Tanaka	Japan	MODELLING OF PERCEPTUAL GLOSS UNDER MIXED LIGHTING CONDITIONS
PO05	Liliana Beltran	United States	ANNUAL DAYLIGHTING PERFORMANCE OF AN INNOVATIVE, EFFICIENT, FULL-SCALE HORIZONTAL LIGHT PIPE