## TIMETABLE

All at University Place unless stated otherwise

### Colour Key

<table>
<thead>
<tr>
<th>DAY</th>
<th>WORKSHOP</th>
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<tbody>
<tr>
<td>INVITED TALK</td>
<td>PRESENTED POSTER</td>
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<tr>
<td>ORAL PRESENTATION</td>
<td>POSTER</td>
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<tr>
<td>ORAL PRESENTATION</td>
<td>DIV/TC MEETING</td>
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<tr>
<td>BREAK</td>
<td>SOCIAL EVENT</td>
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<tr>
<td>ROOM / SESSION NO.</td>
<td>OPENING/AWARD/CLOSING CEREMONY</td>
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### Sunday, June 28

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>18:00</td>
<td>Welcome Reception</td>
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<td>MANCHESTER TOWN HALL</td>
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### Monday morning, June 29

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>08:00</td>
<td>REGISTRATION</td>
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<tr>
<td>09:00</td>
<td>OPENING CEREMONY</td>
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<tr>
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<td>(CIE President, local organizers, ISC chair)</td>
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<tr>
<td>09:25</td>
<td>Celebrity Paper</td>
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<tr>
<td></td>
<td>(Chair: Ann Webb, GB)</td>
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<tr>
<td>10:10</td>
<td>AWARD CEREMONY</td>
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<tr>
<td>10:30</td>
<td>COFFEE BREAK</td>
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<tr>
<td>11:00</td>
<td>Division presentations and discussions</td>
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<tr>
<td></td>
<td>(Chair: Martina Paul, AT)</td>
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<td>12:15</td>
<td>LUNCH</td>
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<td>12:15</td>
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<tr>
<td>Time</td>
<td>Theatre B</td>
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<tr>
<td>13:30</td>
<td>OS1 (D1-1)</td>
</tr>
<tr>
<td>15:00</td>
<td>Colour rendition (Chair: Mike Pointer, GB)</td>
</tr>
<tr>
<td>13:30</td>
<td><strong>INVITED TALK</strong></td>
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<tr>
<td>14:00</td>
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<tr>
<td>14:00</td>
<td><strong>OP01: Kevin Smet, BE GEOGRAPHICAL EFFECTS ON MEMORY COLORS AND THEIR IMPACT ON COLOR RENDITION EVALUATION</strong></td>
</tr>
<tr>
<td>14:40</td>
<td><strong>OP02: Yoshih Ohno, US VISION EXPERIMENT ON CHROMA SATURATION FOR COLOR QUALITY PREFERENCE</strong></td>
</tr>
<tr>
<td>15:00</td>
<td><strong>OP03: Ronnier Luo, CN TESTING COLOUR RENDERING INDICES USING VISUAL DATA UNDER DIFFERENT LED SOURCES</strong></td>
</tr>
<tr>
<td>15:00</td>
<td><strong>COFFEE BREAK</strong></td>
</tr>
<tr>
<td>15:30</td>
<td>PS1 (D1/D8) Presented Posters (Chair: Po-Chieh Hung, US)</td>
</tr>
<tr>
<td>15:35</td>
<td>PP01 Lianli Zhang, CN EXPERIMENTAL RESEARCH ON THE BLUR THRESHOLDS OF DIGITAL IMAGES IN LUMINANCE AND CHROMATIC CHANNELS OF HUMAN VISION</td>
</tr>
<tr>
<td>15:40</td>
<td>PP02 Balazs Nagy, BR INFLUENCE OF BLUE AND AMBER AMBIENT ILLUMINATION ON COGNITIVE PERFORMANCE</td>
</tr>
<tr>
<td>15:45</td>
<td>PP03 Ching-Ju Chou, TW STUDY THE COLOUR FIDELITY QUALITY OF LED SOURCES</td>
</tr>
<tr>
<td>15:50</td>
<td>PP04 Ayako Tsukitani, JP AN EXPERIMENTAL STUDY OF COLOUR RENDERING: COMPARISON BETWEEN SUBJECTIVE AND CALCULATED COLOUR DIFFERENCES OF TEST COLOUR SAMPLES</td>
</tr>
<tr>
<td>15:55</td>
<td>PP05 Yordan Lin, CN OBJECT-BASED COLOR PREFERENCE AND THE IMPORTANCE OF DEVELOPING SPECIAL COLOR RENDITION INDICES</td>
</tr>
<tr>
<td>16:00</td>
<td>PP06 Aurelien David, US OPTIMIZED SET OF REFLECTANCE SAMPLES FOR COLOR RENDITION METRICS</td>
</tr>
<tr>
<td>16:05</td>
<td>PP07 Nana Ishi, JP VISIBILITY OF INDICATOR LAMPS FOR OLDER ADULTS AND LOW VISION PEOPLE</td>
</tr>
<tr>
<td>16:10</td>
<td>PP08 Daniel English, DE SPECTRAL SENSITIVITY IN THE MESOPIC RANGE FOR OBJECTS IN THE PERIPHERY</td>
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- **Invited Talk**
- **Presented Posters**

Monday afternoon, June 29
### Tuesday morning, June 30

<table>
<thead>
<tr>
<th>Time</th>
<th>Theatre B</th>
<th>Theatre A</th>
<th>Room 2.219/2.220</th>
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</thead>
<tbody>
<tr>
<td>09:00</td>
<td>OS4 (D2-1) &lt;br&gt;Advanced characterization of measurement devices &lt;br&gt;(Chair: Tony Bergen, AU)</td>
<td>OS5 (D3-2) &lt;br&gt;Visual perception in interior lighting &lt;br&gt;(Chair: Jennifer Veitch, CA)</td>
<td>OS6 (D4-1) &lt;br&gt;Road lighting (1) &lt;br&gt;(Chair: Yandan Lin, CN)</td>
</tr>
<tr>
<td>09:00</td>
<td>INVITED TALK &lt;br&gt;IT03: Takashi Usuda, JP &lt;br&gt;CCPR ACTIVITIES AND THE CIPM MRA</td>
<td>INVITED TALK &lt;br&gt;IT04: Arnold Wilkins, GB &lt;br&gt;SPATIAL AND TEMPORAL PATTERN DISCOMFORT</td>
<td>INVITED TALK &lt;br&gt;IT05: Geoff Draper, GB &lt;br&gt;GLARE COMPLAINTS THEIR IMPACT UPON THE REGULATION OF AUTOMOTIVE LIGHTING</td>
</tr>
<tr>
<td>09:30</td>
<td>OP11: Hiroshi Shitomi, JP &lt;br&gt;POTENTIAL EFFECT ON THE DIFFERENCE IN EVALUATING CONDITION FOR UV AND IR INDEX OF PHOTOMETERS ACCORDING TO ISO/CIE 19476</td>
<td>OP15: Miki Kozaki, JP &lt;br&gt;EFFECT OF LIGHT COLOUR ON SPATIAL BRIGHTNESS</td>
<td>OP19: Miyoshi Ayama, JP &lt;br&gt;DISCOMFORT GLARE OF LED STREET LIGHTS WITH DIFFERENT CORRELATED COLOR TEMPERATURES</td>
</tr>
<tr>
<td>10:30</td>
<td>OP14: Yanfei Wang, CN &lt;br&gt;AN IMPROVED APPROACH FOR ARRAY SPECTRORADIOMETERS BANDPASS CORRECTION BASED ON DIFFERENTIAL QUADRATURE METHOD</td>
<td>OP18: Ronnier Luo, CN &lt;br&gt;ASSESSMENTS OF WHITE PERCEPTION IN A REAL LIT ROOM</td>
<td>OP22: Jakob Munkgaard Andersen, DK &lt;br&gt;FACILITY TO EVALUATE STREET LIGHTING SOLUTIONS IN A REALISTIC URBAN SETTING</td>
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<tr>
<td>10:50</td>
<td>COFFEE BREAK</td>
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<tr>
<td>11:10</td>
<td>WS1: Seminar &lt;br&gt;COLOUR QUALITY OF LED LIGHTING &lt;br&gt;Conveners: Ronnier Luo, CN; Tran Quoc Khai, DE</td>
<td>WS2: Seminar &lt;br&gt;ASSESSING LIGHTING METRICS &lt;br&gt;Conveners: Peter Boyce, GB; Jennifer Veitch, CA</td>
<td>WS3: Seminar &lt;br&gt;ADAPTIVE LIGHTING AND VISIBILITY &lt;br&gt;Conveners: Ron Gibbons, US</td>
</tr>
<tr>
<td>11:40</td>
<td>Presentations in WS1: &lt;br&gt;OP74: Peter Birdling, DE &lt;br&gt;INTERCULTURAL COLOUR TEMPERATURE PREFERENCE OF CHINESE AND EUROPEAN SUBJECTS LIVING IN GERMANY</td>
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<td>12:40</td>
<td>LUNCH</td>
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### Tuesday afternoon, June 30

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<tbody>
<tr>
<td>14:00</td>
<td>DIV/TC meetings</td>
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<td>18:30</td>
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### Theater B

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 09:00  | OP23: Karin Bleske, DE  
INVESTIGATION OF LUMINOUS COLOUR DIFFERENCES WITHIN AND BETWEEN LUMINAIRES |
| 09:20  | OP24: Martijn Withouck, BE  
TOWARDS A NEW COLOUR APPEARANCE MODEL FOR UNRELATED COLOURS |
| 09:40  | OP25: Li-Chen Ou, TW  
FEASIBILITY OF A UNIVERSAL MODEL FOR COLOUR HARMONY |
| 10:00  | OP26: Muhammad Safdar, CN  
USING DIGITAL RGB CAMERA TO MEASURE ROOM APPEARANCE |
| 10:20  | OP27: Jumpei Mitsuhashi, JP  
THE APPEARANCE OF PAINTINGS AND COLOUR CHARTS UNDER WHITE LEDS WITH HIGH COLOUR RENDERING |
| 11:00  | OP38: Guillaume Ged, FR  
CHARACTERIZATIONS OF SPECULAR PEAKS FROM A METROLOGICAL GLOSS SCALE |
| 11:30  | OP39: Frederic Leloup, BE  
BE INVESTIGATION OF THE INTER-INSTRUMENT AGREEMENT OF SPECULAR GLOSSMETERS |
| 12:00  | OP40: John Mardajevic, GB  
ILLUMINANCE-PROXY HIGH DYNAMIC RANGE IMAGING: A NEW WAY TO MEASURE SURFACE REFLECTANCE |
| 12:30  | OP41: Alejandro Ferrero, ES  
MEASUREMENT OF GONOFLUORESCENCE IN PHOTOLUMINESCENT MATERIALS |

### Theater A

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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| 09:00  | OP28: Raphael Kirsch, DE  
LUMINANCE DISTRIBUTIONS AND VISUAL APPEARANCE IN OFFICES |
| 09:20  | OP29: Tsz Ming Chung, HK  
OFFICE LIGHTING ASSESSMENT: UNDERLYING PROBLEMS AND FEASIBILITY OF EXISTING LIGHTING METRICS |
| 09:40  | OP30: Adrié de Vries, NL  
WALL ILLUMINATION - BEYOND ROOM APPEARAL |
| 10:00  | OP31: Biao Yang, GB  
GAZE ALLOCATION OF PEDESTRIANS WALKING IN CORRIDORS WITH DIFFERENT LIGHTING LEVELS AND DYNAMIC LED VISUAL AIDS |
| 10:20  | OP32: Claudia Moscoso, NO  
FROM WINDOWS TO DAYLIGHTING SYSTEMS: HOW DAYLIGHT AFFECTS THE AESTHETIC PERCEPTION OF ARCHITECTURE |
| 11:10  | OP33: Ronald Gibbons, US  
APPLICABILITY OF MESOPIC FACTORS TO THE DRIVING TASK |
| 12:10  | OP34: Steve Fotios, GB  
HOW MUCH LIGHT DO WE NEED TO JUDGE ANOTHER PERSON'S INTENTIONS? |
| 12:30  | LUNCH |

### Room 2.219/2.220

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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</table>
| 09:00  | OP35: Maria Johansson, SE  
PERCEIVED LIGHTING QUALITIES AND PEDESTRIANS' PERFORMANCE |
| 09:40  | OP36: Jemima Unwin, GB  
THE EFFECT OF STREET LIGHTING ON PEDESTRIANS' PERCEPTIONS OF SAFETY IN RESIDENTIAL ENVIRONMENTS |
| 10:10  | OP37: Cyril Chain, FR  
EVALUATION OF INDOOR LIGHTING SITUATIONS IN PUBLIC ACCESS BUILDINGS AND OUTDOOR SITUATIONS IN URBAN ENVIRONMENT AT NIGHT BY VISUALLY IMPAIRED PEOPLE |
| 11:00  | OP38: Mandana Sarey Khanie, CH  
GAZE-DRIVEN APPROACH FOR ESTIMATING LUMINANCE VALUES IN THE FIELD OF VIEW FOR DISCOMFORT GLARE ASSESSMENTS |
| 11:30  | OP39: 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 |
| 11:50  | OP40: John Nakamura, JP  
PREDICTION OF DISCOMFORT GLARE CAUSED BY NON-UNIFORM LIGHT SOURCES OF A NON-UNIFORM LIGHT SOURCE BY USE OF ITS LUMINANCE IMAGE |
| 12:10  | OP41: Leonie Geerdinck, NL  
COMFORT-BRIGHTNESS TWO-AXIS EVALUATION SYSTEM AND GLARE INDEX FOR THREE TARGET SCENES |
| 12:30  | OP42: Mojtaba Navvab, US  
PHOTOMETRIC EVALUATIONS FOR PEDESTRIAN ENVIRONMENTS WITH EMPHASIS ON LIGHT SPECTRUM AT MESOPIC LEVELS |

### Wednesday afternoon, July 01

<table>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>14:00</td>
<td>Poster Session (PO2)</td>
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<tr>
<td>14:30</td>
<td>DIV/TC meetings</td>
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<tr>
<td>15:30</td>
<td>Gala Dinner - MANCHESTER UNITED FOOTBALL CLUB (ticketed event)</td>
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<tr>
<td>19:00</td>
<td>Gala Dinner - MANCHESTER UNITED FOOTBALL CLUB (ticketed event)</td>
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<tr>
<td>Time</td>
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<tr>
<td>09:00 -</td>
<td>OS13 (D2-3)</td>
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<tr>
<td>10:50</td>
<td>Near and far field goniophotometry (Chair: Armin Spading, DE)</td>
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<tr>
<td>09:00 -</td>
<td>PS4 (D2)</td>
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<tr>
<td>10:10</td>
<td>Presented Posters (Chair: Hiroshi Shitomi, JP)</td>
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<tr>
<td>10:30</td>
<td>PP25</td>
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<tr>
<td>10:35</td>
<td>Alejandro Ferrero, ES</td>
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<tr>
<td>10:40</td>
<td>MEASURING SPARKLE OF EFFECT COATINGS</td>
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<tr>
<td>10:45</td>
<td>Tony Bergen, AU</td>
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<tr>
<td>10:50</td>
<td>Kathryn Neid, NZ</td>
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<tr>
<td>10:55</td>
<td>, AN IMPROVED GONIOPHOTOMETER USING CURVED MIRROR</td>
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<td>11:00</td>
<td>Thorsten Gerloff, DE</td>
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<td>11:05</td>
<td>Traceable, goniophotometry on high-power LEDs at PTB</td>
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<td>11:10</td>
<td>Denan Konjhodzic, DE</td>
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<tr>
<td>11:15</td>
<td>Influence of burning position on goniophotodiometric measurements</td>
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<tr>
<td>11:20</td>
<td>PP31</td>
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<tr>
<td>11:25</td>
<td>Methods for correction of the LID measurements by means of goniophotometers with rotating luminaires for different lamps</td>
</tr>
<tr>
<td>11:30</td>
<td>Roman Dubnicka</td>
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<tr>
<td>11:35</td>
<td>Measurement uncertainty of photometric measurements considering the requirements of the new draft international standard CIE DIS/05E/2014</td>
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<tr>
<td>11:40</td>
<td>Udo Krüger, DE</td>
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<td>11:45</td>
<td>PP32</td>
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**Thursday morning, July 02**

**Thursday afternoon, July 02**

**DIV/TC meetings**
## Friday morning, July 03

<table>
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<th>Theatre B</th>
<th>Theatre A</th>
<th>Room 2.219/2.220</th>
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<tbody>
<tr>
<td>09:00</td>
<td>OS16 (D2-4)</td>
<td>OS17 (D3-6)</td>
<td>OS18 (D4-3)</td>
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<tr>
<td>09:00</td>
<td>Characterization of light sources</td>
<td>Integrated design</td>
<td>Road lighting (3)</td>
</tr>
<tr>
<td>09:00</td>
<td>(Chair: Peter Blattner, CH)</td>
<td>(Chair: Barbara Matusiak, NO)</td>
<td>(Chair: Maurice Donners, NL)</td>
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<tr>
<td>09:40</td>
<td>OP59: Erkki Ikonen, FI</td>
<td>OP64: Hiroshi Nakayama, JP</td>
<td>OP69: Giuseppe Rossi, IT</td>
</tr>
<tr>
<td>09:40</td>
<td>ACCURATE MEASUREMENT OF ILLUMINANCE AND LUMINOUS EFFICACY OF WHITE LED LAMPS</td>
<td>A STUDY ON THE EFFECT OF LED LAMPS ON AIR-CONDITIONING LOAD IN BUSINESS-RELATED BUILDING</td>
<td>ADAPTIVE SYSTEMS IN ROAD LIGHTING INSTALLATIONS</td>
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<td>09:40</td>
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<tr>
<td>09:40</td>
<td>OP60: Maumita Chakrabarti, DK</td>
<td>OP65: Ling Xia, NL</td>
<td>OP70: Kenneth Jonsson, SE</td>
</tr>
<tr>
<td>09:40</td>
<td>MONTE CARLO ANALYSIS OF MULTICOLOUR LED LIGHT ENGINE</td>
<td>SIMULTANEOUS MEASUREMENT AND VISUALISATION OF LIGHT FLOW AND DIFFUSENESS IN 3D SPACE</td>
<td>TRAFFIC COMPENSATED LUMINANCE ESTIMATION</td>
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<td>09:40</td>
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<tr>
<td>09:40</td>
<td>MEASUREMENT OF THE UNIFIED GLARE RATING (UGR) BASED ON USING ILMD</td>
<td>METHODOLOGY TO CREATE SPECTRAL SKY MODELS TO ENABLE THE INCLUSION OF COLORIMETRIC CHARACTERISTICS OF DAYLIGHT IN RESEARCH AND DESIGN</td>
<td>COMPARISON BETWEEN OPTICAL AND COMPUTER VISION ESTIMATES OF VISIBILITY IN DAYTIME FOG</td>
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<td>09:40</td>
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<tr>
<td>09:40</td>
<td>SPECTRAL RAY FILES OF LIGHT SOURCES USING PRINCIPAL COMPONENT ANALYSIS</td>
<td>ILLUMINANCE MEASUREMENTS IN AN URBAN CANYON SCALE MODEL ACCORDING TO ASPECT RATIOS, COATINGS AND SKY TYPES</td>
<td>A NEW APPROACH TO ANALYZE NIGHTTIME ROADWAY VISIBILITY THROUGH DISTRIBUTION ANALYSIS OF DETECTION DISTANCES</td>
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<tr>
<td>09:40</td>
<td>DEVELOPMENT OF A NEW SPHERE-GONIOPHOTOMETER METHOD</td>
<td>THE SUN EXPOSURE INDEX: A NEW METRIC TO QUANTIFY THE SUNLIGHT POTENTIAL OF ARBITRARILY COMPLEX BUILDING APERTURES</td>
<td>EVALUATION OF VISUAL TROUBLES DUE TO LUMINOUS ADVERTIZINGS IN URBAN AREAS</td>
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<td>10:40</td>
<td>COFFEE BREAK</td>
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<tr>
<td>11:10</td>
<td>WS4: Workshop</td>
<td>WS5: Seminar</td>
<td>WS6: Workshop</td>
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<tr>
<td>11:10</td>
<td>CIE ILLUMINANT L (LED): PROS, CONS AND CHALLENGES</td>
<td>LIGHTING FOR LIFE</td>
<td>COLOUR IMAGING REPRODUCTION FOR 3D PRINTING</td>
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<tr>
<td>11:10</td>
<td>Conveners: Peter Blattner, CH</td>
<td>Conveners: Jennifer Veitch, CA; John O'Hagan, GB</td>
<td>Conveners: Kaida Xiao, GB</td>
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<td>11:10</td>
<td>Presentation in WS4:</td>
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<td>11:10</td>
<td>OP74: Tuomas Poikonen, FI TOWARDS LED-BASED PHOTOGRAMMETRIC STANDARDS</td>
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<td>CLOSING CEREMONY</td>
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<td>12:45</td>
<td>LUNCH / FAREWELL RECEPTION</td>
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<td>12:45</td>
<td>Marquee in Alan Gilbert Square</td>
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## Friday afternoon, July 03

<table>
<thead>
<tr>
<th>Time</th>
<th>DIV/TC meetings</th>
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## Saturday morning, July 04

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<tr>
<th>Time</th>
<th>DIV/TC meetings</th>
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<td>09:00</td>
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<td>LUNCH</td>
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POSTERS

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

PO1-01 Lianlian Zhang, CN
EXPERIMENTAL RESEARCH ON THE BLUR THRESHOLDS OF DIGITAL IMAGES IN LUMINANCE AND CHROMATIC CHANNELS OF HUMAN VISION

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 Saeideh Gorji Kandi, IR
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 MEASUREMENT

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 PERCEPTION AND COLOUR VISION)

PO1-25 Kazim Hilmi Or, TR
WHY DOES GLARE NOT CONSIST IN ALL GAZE DIRECTIONS AND ANGLES?

PO1-26 Ágnes Urbín, HU
COLOUR VISION UNDER DIFFERENT STATES OF ADAPTATION

PO1-27 Ágnes Urbín, 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 Yuki 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
A DISCUSSION ON THE IMPACT OF INTERIORS ON THE COLOUR QUALITY OF LIGHT

LIGHTING QUALITY: POSSIBILITY OF LUMINANCE DISTRIBUTION AS ITS DETERMINANT

ENERGY SAVING ASSESSMENT OF THE PASSIVE TUBULAR DAYLIGHT GUIDANCE SYSTEMS FOR ROMANIA

SUSTAINABLE LIGHTING REFURBISHMENT SOLUTIONS: TECHNICAL UNIVERSITY OF CLUJ-NAPoca CASE

A COMPARISON STUDY ON SPATIAL BRIGHTNESS EVALUATION BETWEEN DIFFERENT CULTURAL GROUPS

LIGHT ENVIRONMENT CONTROL SYSTEM USING PERCEPTION OF BRIGHTNESS

DERIVATING ILLUMINANCE FOR MODEL MEASUREMENTS UNDER ARTIFICIAL SKY

DYNAMIC DAYLIGHT AND INPUT FOR INTELLIGENT (DAY)LIGHTING CONTROL

NEUTRAL DAYLIGHT ILLUMINATION WITH ELECTROCHROMIC GLAZING: SIMULATION OF ANNUAL PROFILES FOR ‘LIGHT MIXING’

ILLUMINATION AND CONSERVATION: A CASE STUDY EVALUATION OF DAYLIGHT EXPOSURE FOR AN ARTWORK IN A HERITAGE SETTING

THE EFFECT OF THE ANALYSIS GRID SETTINGS ON DAYLIGHT SIMULATIONS WITH CLIMATE-BASED DAYLIGHT MODELLING

SKY LUMINANCE AND SPECTRUM DISTRIBUTION IN BEIJING

A NEW SIMULATION METHOD FOR LIGHTING ENERGY CONSUMPTION FOR OFFICE BUILDING

LONG TERM MEASUREMENTS OF SKY SPECTRAL IRRADIANCES AND VALIDATION OF CIE DAYLIGHT ILLUMINANTS

CLIMATE BASED DAYLIGHT ANALYSIS IN THE CLOUD

LUMINANCE DISTRIBUTION ON HEMISPHERICAL ARTIFICIAL SKY DEPENDING ON LUMINAIRE CHARACTERISTICS AND POSITION

RESEARCH ON INDOOR DAYLIGHTING DESIGN FOR RESIDENCE BASED ON CONCEPT OF DAYLIGHTING ENERGY EFFICIENCY

POST OCCUPANCY DAYLIGHT STUDY IN A HIGH-RISE BUILDING

INFLUENCE OF WINDOW ORIENTATION ON A ROOM DAYLIGHTING

DISTRIBUTION CURVE OF LUMINOUS INTENSITY OF WINDOW SYSTEM USING DIRECT SUNLIGHT

METHOD FOR DETERMINATION OF YEAR SKY REFERENCE CONDITIONS

DAYLIGHT AND SEATING PREFERENCE IN OPEN-PLAN SPACES

LAMP SPECTRUM DOES NOT AFFECT PEDESTRIANS’ JUDGEMENTS OF THE EMOTION OF OTHERS AS CONVEYED BY FACIAL EXPRESSION

EXTENDED TI-FORMULA FOR A MORE PRECISE MEASURE OF PHYSIOLOGICAL GLARE DUE TO ROAD LIGHTING

EXTENSION OF THE LUMINANCE CONCEPT IN ROAD AND TUNNEL LIGHTING

AIRPLANE OBSERVATIONS AT NIGHTTIME FOR A SUSTAINABLE URBAN LIGHTING

AN INVESTIGATION ON THE USE OF COLOURED LIGHT IN FACADE LIGHTING

PHOTOBIOLOGY – PRESENTATION OF A BLUE LIGHT HAZARD IN VIVO EXPERIMENT ON THE RAT

CIRCADIAN EFFECTS OF LIGHT EXPOSURE PATTERN CONSIDERING DAYLIGHT FROM WINDOW

EFFECT OF CORRELATED COLOUR TEMPERATURE AND INTRINSICALLY PHOTOSENSITIVE RETINAL GANGLION CELLS RESPONSE ON A VISUAL TASK

DEVELOP OF LED FULL SPECTRUM LAMP

MELANOPIC LUX AND BLUE LIGHT UNDER DIFFERENT LIGHTING SCENARIOS

PHOTOBIOLOGICAL SAFETY OF LCD SCREEN

EFFECTS OF LED LIGHTING ON MENTAL PERFORMANCES

LIGHT REFLECTED FROM WALLS INFLUENCES PHOTOBIOLOGICAL EFFECTS

THE EFFECT OF LIGHT WHICH STIMULATE MELANOPSIN-EXPRESSING RETINAL GANGLION CELL INDEPENDENT OF CONE AND ROD ON MELATONIN SUPPRESSION DURING NIGHTTIME

IMPROVEMENT OF SLEEP QUALITY BY USING AN INTELLIGENT LIGHT

THE IMPACT OF NATURAL LIGHT ON THE TRADITIONAL ARCHITECTURAL COLOR PAINTINGS’ COLOR DECAY OF CHINESE CLASSICAL GARDEN

EVALUATION OF COLOUR DEGRADATION UNDER HIGH COLOUR RENDERING INDEX SSLS
PO2:1 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

PO2:2 Tsung-Hsun Yang, TW
COMMON AGING BEHAVIOURS OF LIGHT-EMITTING DIODES

PO2:3 Oswaldo Sanchez Jr ., BR
COMPARED ANALYSIS OF NEAR-FIELD AND FAR-FIELD PHOTOMETRY ON A LED PROJECTOR

PO2:4 José Luis Velázquez Molinero, ES
MODEL FOR ILLUMINANCE PRODUCED BY LEDS AS A FUNCTION OF DISTANCE

PO2:5 Carsten Dam-Hansen, DK
ANALYSIS OF COMPACT AND PORTABLE GONIOSPECTROMETER SYSTEM FOR TEST OF LED LAMPS

PO2:6 Yasuki Yamauchi, JP
INFLUENCE OF THE POSTURE OF OLED PANELS ON THE FLUX MAINTENANCE EXPERIMENTS

PO2:7 Yasuki Yamauchi, JP
PRELIMINARY STUDY ON THE SOURCE-SIZE EFFECT IN THE INTEGRATING SPHERE-BASED TOTAL LUMINOUS FLUX MEASUREMENT OF OLED PANELS

PO2:8 Florin Domnita, RO
HEAT LOSSES OF LED LAMPS - SIMPLIFIED MEASUREMENT AND CALCULATION METHODOLOGY

PO2:9 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 SPECTRALRADIOMETER 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 ILLUMINANCE INTENSITY STANDARD LAMP KEPT IN THE DARK PLACE OVER 26 YEARS

PO2:15 Zhao WeiQiAang, CN
THE NONLINEARITY TESTER FOR OPTICAL DETECTOR BASED ON MONOCROME LED

PO2:16 Zhifeng Wu, CN
INVESTIGATION OF THE FIBER SPECTRALRADIOMETER

PO2:17 Jan Škoda, CZ
MEASUREMENT OF DISCOMFORT GLARE THROUGH THE ILLUMINANCE ANALYZER

PO2:18 Maira 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 Sierhey Nikanenka, BY
INFLUENCE OF SPATIAL CHARACTERISTICS OF SOLID STATE LIGHT SOURCES ON RESULTS OF MEASUREMENTS OF THEIR PHOTOOMETRIC AND RADIOMETRIC PROPERTIES

PO2:22 Sierhey 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 UNE-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 SPECTRALRADIOMETERS

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
SPECTRALRADIOMETRIC 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 ILLUMINANCE – WHAT IS THE RIGHT DIMENSION FOR DISCOMFORT GLARE EVALUATION UNDER STREET LIGHTING CONDITIONS?

PO2:33 Alberto Urrutia-Moldes, GB
USING LIGHTING TO ENHANCE POSITIVE BEHAVIOR IN PRISONS

PO2:34 Ute Besenecer, US
PROGRESS IN MODELING SCENE BRIGHTNESS

PO2:35 Yoshihki 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 Junpei 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
A SURVEY OF LIGHTING AND ENERGY PERFORMANCES IN 71 RETAIL STORES IN CHINA

SUSTAINABLE LIGHTING: THE ROMANIAN APPROACH

LIGHTING SPECIALIST

DEVELOPMENT OF LUMINOUS FLUX TRACKING METHOD FOR EVALUATION OF DAYLIGHTING SYSTEM

A NEW METHOD OF DESCRIBING LIGHT FLOWS IN THE BUILDINGS WITH PHOTON DISTRIBUTION

STUDY ON THE BASIC LIGHTING DESIGN METHOD FOR BUILDINGS ENERGY EFFICIENCY WITH QUALITY BY THE SPATIAL DISTRIBUTION OF LUMINOUS FLUX TOWARDS A SOLUTION FOR THE INEVITABLE USE OF THE GLAZED FAÇADES IN THE ARID REGIONS VIA THE PARAMETRIC DESIGN APPROACH

CALCULATION METHOD OF LUMINOUS FLUX TO DESIGN A LIGHTING ENVIRONMENT FOR RESIDENTIAL HOUSE BY USING CEILING LUMINAIRE

COST-OPTIMAL ARCHITECTURAL LIGHTING DESIGN STRATEGY: METHODOLOGY AND CASE STUDY APPLICATIONS

LIGHTING DESIGN FOR PLANT GROWTH AND HUMAN COMFORT

A PSYCHOPHYSICAL MODEL OF DISCOMFORT GLARE IN BOTH OUTDOOR AND INDOOR APPLICATIONS

SPECTRAL EFFECTS OF LIGHT ON DISCOMFORT GLARE UNDER MESOPIC CONDITIONS

UGR FOR EXTERIOR WORKING ENVIRONMENT? WHY NOT

PAVEMENT OBSTACLE DETECTION AT MESOPIC LEVELS: A STEP TOWARDS APPLICABLE CONTEXT

MISLEADING RATINGS OF PERCEIVED SAFETY

THE BASIC RULES FOR ZEBRA CROSSING ILLUMINATION

APPEARANCE OF HUMAN FACE AND ATMOSPHERE OF ENVIRONMENT UNDER LED STREET LIGHTS OF DIFFERENT CORRELATED COLOUR TEMPERATURE

AN AUTOMATIC SYSTEM FOR MEASURING ROAD AND TUNNEL LIGHTING PERFORMANCE

THE STUDY OF PREVENT THE SLEEP-INDUCING BY THE LED LIGHTINGS

EFFECTS OF INTELLIGENT CONTROL ON THE LIFETIME OF LED STREET LIGHTS

EXPLAINING THE HIGH VISIBILITY OF LIGHT EMITTING DIODES IN FOG

NEW ACHIEVEMENTS IN PRACTICAL DETERMINATION OF ROAD SURFACE REFLECTION TABLE FROM IN-SITU MEASUREMENT DATA

VISIBILITY OF ROAD SURFACE AND PEDESTRIAN'S FACE UNDER UNEVEN ILLUMINATED SPACE

REQUIRED ILLUMINANCE AND EVALUATION OF VISIBILITY OF THE FACE IN LIGHTENED ENVIRONMENT FROM THE LED STREET LIGHT

RELATIONSHIP BETWEEN SIZE OF LED BILLBOARDS AND DRIVER'S VISUAL PERFORMANCE – STUDY WITH USING DRIVING SIMULATOR

THE RESEARCH OF URBAN ROAD GREEN BELT LIGHTING VISUAL EFFICIENCY

STUDY OF THE URBAN OVERPASS GUARDRAIL LIGHTING DISABILITY GLARE AND FLICKER EFFECT

INVESTIGATION OF COMPONENTS OF ENVIRONMENTAL ILLUMINANCE AND LUMINANCE BY EMD AND DENoise METHODS

PUBLIC LIGHTING IN A CONTEXT OF THE REGENERATION PROCESSES IN POLISH CITIES

A STUDY ON REDUCTION OF LIGHT POLLUTION CAUSED BY ARCHITECTURAL LIGHTING

A SURVEY OF LIGHT POLLUTION BY SIGNS AND ITS IMPROVEMENT

STUDY ON LIGHT ENVIRONMENT PARTITION OF URBAN NIGHTSCAPE LIGHTING DESIGN IN CHINA

THE INVESTIGATION AND DATA ANALYSIS OF LIGHT TRESPASS OF URBAN RESIDENTIAL AREAS IN CHINA

LIGHT EMITTING DIODES AND ASTRONOMY — CHALLENGES AND OPPORTUNITIES

LED - A SUPERIOR LIGHT SOURCE FOR SPORTS LIGHTING

RECOMMENDED LUMINANCE FOR COLOUR LIGHTING
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 LUC 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 ICGM 101
PO3-15  Liu Hui, CN  THE REALIZATION OF PHOTOSYNTHESIS QUANTUM SCALE AT NIM
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 BERMANN 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 LUMINANCE DISTRIBUTION AND ILLUMINATION OF SURFACES AT OFFICE BUILDINGS WITH RESPECT TO THE REQUIREMENTS TO ILLUMINATION OF INTERIOR WORKPLACES
PO3-30  Dionyz Gasparovsky, SK  FOCUSED ON HOME LIGHTING: WHAT TO STANDARDISE AND WHAT TO GUIDE?
PO3-31  Dionyz Gasparovsky, SK  A STUDY OF THE IMPACT OF HAZE ON BUILDING INDOOR LIGHTING ENVIRONMENT
PO3-32  Lu Shiwei, CN  HIGH PERFORMANCE ILLUMINANCE MONITORING FOR BUILT ENVIRONMENT
PO3-33  Yee Leoon Sum, SG  LIGHTING RETROFITTING: IMPROVING ENERGY EFFICIENCY AND LIGHTING QUALITY
PO3-34  Eino Tetri, FI  REFLECTOR GEOMETRY OPTIMIZATION USING GENERIC ALGORITHM
PO3-35  Yi Xu, CN  THE RESEARCH OF TRIADIC RELATION AMONG BUILDING SPACES, LIGHTING COMFORT LEVEL AND LIGHTING ENERGY CONSUMPTION IN CIVIL BUILDINGS
PO3-36  Takuma Ban, JP  EVALUATION OF LIGHTING ENERGY CONSUMPTION AND LIGHTING ENVIRONMENT BY USING DAYLIGHT IN JAPANESE OFFICE BUILDINGS
PO3-37  Krzysztof Wandachowicz, PL  THE 'NORDSTROM TOWER': A LANDMARK DAYLIGHT INJURY STUDY
PO3-38  Szu-Cheng Chien, SG  THE EFFECTS OF LIGHT SHELF ON DYNAMIC DAYLIGHT PERFORMANCE IN TROPICAL BUILDINGS: A CASE STUDY
PO3-39  Mika Kato, JP  RESEARCH ON ACCEPTABLE LUMINANCE CONTRAST BETWEEN THE WINDOW USING BLIND AND THE SURROUNDING WALL
PO3-40  Yuki Ito, JP  OUTDOOR MEASUREMENT ON LUMINOUS EFFICACY OF WINDOW WITH SHADING
PO3-41  Yu Bian, CN  PARAMETERS OPTIMIZATION OF BUILDING DAYLIGHT FACILITY UNDER REPRESENTATIVE SKY
PO3-42  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 OFFICE BUILDING STUDY

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 ENVIRONMENT EVOLUTION IN LIVING ROOMS IN CHINA

PO3-65 Nianyu Zou, CN
AN INVESTIGATION REPORT ON OUTDOOR LIGHTING REQUIREMENTS WITH PEDESTRIAN 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 ADAPTATION 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 STUDIED 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