09:00 OPENING CEREMONY

09:30 Keynote Speech (Chair: N.N.)
Yiping Cui, CN
The Applications of Quantum Control Technologies in LEDs for Lighting

09:30 Invited Talk (Chair: N.N.)
Michael Donn, NZ
Relevant Daylight Design Tools for Pre-Design

10:00 Mesopic Photometry and Brightness (Chair: N.N.)
10:30 Daylighting (Chair: N.N.)
10:30 Photobiological effects (Chair: N.N.)

11:00 OP01 Marjukka Pualakkia, FI
IMPLEMENTATION OF CIE 191 MESOPIC PHOTOMETRY - ONGOING AND FUTURE ACTIONS

11:00 OP05 Tse-ming Chung, HK
A STUDY ON DAYLIGHT GLARE IN CELLULAR OFFICES USING HIGH DYNAMIC RANGE (HDR) PHOTOGRAPHY

11:00 OP09 Ann Webb, GB
EVALUATING CIRCADIAN RESPONSES IN A SOLAR ENVIRONMENT

11:00 OP02 Tatsukiyo Uchida, US
AN EXPERIMENTAL APPROACH TO A DEFINITION OF THE MESOPIC ADAPTATION FIELD

11:00 OP06 Jan Wienold, DE
QUANTIFICATION OF AGE EFFECTS ON CONTRAST AND GLARE PERCEPTION UNDER DAYLIGHT CONDITIONS

11:00 OP09 Neng-Chung Hu, TW
EFFECTS OF ALERTNESS FOR STATIC AND DYNAMICAL LIGHTING AT POST-NOON

11:20 OP03 Justine Decuypere, BE
MESOPIC CONTRAST MEASURED WITH A COMPUTATIONAL MODEL OF THE RETINA

11:20 OP07 Oliver Stefani, DE
MOVING CLOUDS ON A VIRTUAL SKY AFFECT WELL-BEING AND SUBJECTIVE TREDINESS POSITIVELY

11:20 OP10 Andreas Wolfsjiaik, DE
BIOLOGICAL EFFECTS OF LIGHT ON HUMANS - INTERNATIONAL STANDARDIZATION ACTIVITIES

11:40 OP04 Janos Schanda, HU
BRIGHTNESS PERCEPTION

11:40 OP08 Esther Hagenlocher, US
COLORFULNESS AND REFLECTIVITY IN DAYLIT SPACES

11:40 OP12 Kenan Sansal, TR
EFFECTS OF INDOOR LIGHTING ON DEPRESSIVE SYMPTOMS AND ACADEMIC PERFORMANCE IN TURKISH ADOLESCENTS

12:00 OP05 Hirohisa Yaguchi, JP
TESTING OF UNIFORM COLOR SPACE USING CORRESPONDING COLORS UNDER DIFFERENT ILLUMINANTS

12:00 OP09 Susumu Sugano, JP
APPLICATION OF GLARE IMAGE TO VISUAL ENVIRONMENT DESIGN OF RESIDENCE

12:00 OP13 Jianping Liu, CN
LIGHTING FOR HEALTH: BIOLOGICAL EFFECTS OF TRADITIONAL AND SSL ILLUMINATION

12:20 OP14 Hitoshi Komatsubara, JP
COLOR RENDERING EVALUATION OF WHITE LED ILLUMINATION BY COMPARATIVE ASSESSMENT

12:20 OP19 Johanna Enger, SE
VIAVISION - A WEB GUIDE FOR EFFICIENT LIGHTING DESIGN BY UNDERSTANDING OF VISUAL PERCEPTION

12:20 OP24 Jian Zhang, CN
EVALUATION ON PHOTOBILOGICAL SAFETY OF LED LIGHT SOURCES FOR CHILDREN APPLICATIONS

12:20 OP15 Peter Dehoff, AT
STANDARDS AND REGULATION AS DRIVERS FOR ENERGY EFFICIENCY AND LIGHTING QUALITY - SOME EUROPEAN EXPERIENCES

12:20 OP25 Raisa Sloyarevskaya, RU
METODOLOGY OF LUMINAIRE BLUE-LIGHT HAZARD MEASUREMENTS

12:20 OP16 Yandan Lin, CN
INFLUENCES OF CULTURES AND RACES ON MEMORY COLOR AND COLOR QUALITY EVALUATION

12:20 OP21 Steve Fotios, GB
USER CONTROL AND SATISFACTION WITH DIFFERENT ILLUMINANCE RANGES

12:20 OP26 Mario Blumthaler, AT
BIOLOGICALLY WEIGHTED UNITS FOR HUMAN SKIN UV EXPOSURE - SUGGESTIONS FOR STANDARDISATION

12:20 LUNCH

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15:00 OP17 Ming Lu, CN
NEW EXPERIMENTAL DATA FOR EVALUATING COLOUR RENDERING INDICES

15:00 OP22 Shuo-Wei Hsu, TW
EXPERIMENTAL EXAMINATION AND SIMULATION OF A LED INTERIOR LIGHTING SPACE

15:00 OP27 Qian Li, CN
AN OPTIMIZATION OF RETINAL THERMAL HAZARD MEASUREMENT FOR REAL LIGHT SOURCES

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15:00 OPENING CEREMONY

15:00 Panel discussion: International Cooperation on SSL Standardization and Regulations (Chair: Martina Paul)

15:30 COFFEE BREAK
Thursday, September 20

09:00
Invited Talks (Chair: N.N.)
Steve Fotios, GB
Research on Lighting for Pedestrians
09:00
Tongsheng Mou, CN
Measurement and Standardization on Photobiological Safety Related to LED Products
09:30
COFFEE BREAK

10:00
Measurement of SSL
(Chair: N.N.)
OP28
Erkki Ikonen, FI
CHARACTERIZATION OF LED LAMPS FOR ENERGY EFFICIENT LIGHTING
10:30
OP33
Ferenc Szabo, HU
SOLID STATE LIGHT SOURCES IN MUSEUM LIGHTING: LIGHTING RECONSTRUCTION OF THE SISTINE CHAPEL IN VATICAN

10:00
Lighting Design
(Chair: N.N.)
OP38
Xiaoyan Zhu, CN
PERCEPTION STUDY OF DISCOMFORT GLARE FROM LED ROAD LIGHTING
10:50
OP34
Karin Fridell Anter, SE
A SCIENTIFIC APPROACH TO THE SPATIAL INTERACTION BETWEEN LIGHT AND COLOUR

11:10
OP39
Wenyi Li, CN
STUDY ON VISUAL PERCEPTION OF FLICKER FROM LOW-HEIGHT MOUNTED LED LUMINAIRE FOR ROAD LIGHTING

11:10
Street and Outdoor Lighting
(Chair: N.N.)
OP29
Paul Miller, GB
SOLID STATE LIGHTING PERFORMANCE TESTING AT UK LIGHTING LABORATORIES
10:30
OP35
Belakehal Azeddine, DZ
DAYLIGHTING DESIGN AND MOSQUE ARCHITECTURE

11:10
OP40
Yandan Lin, CN
GLARE SENSITIVITY OF PILOTS WITH DIFFERENT AGES AND ITS EFFECTS ON VISUAL PERFORMANCE OF NIGHTTIME FLYING

11:10
OP30
Yuqin Zong, US
DEVELOPMENT OF A FULLY AUTOMATED LED LIFETIME TEST SYSTEM WITH HIGH ACCURACY
10:50
OP36
Kheira Tabet Aoul, AE
THE EFFECTS OF ARTIFICIAL NIGHT LIGHTING ON TYPICAL MIGRATORY BIRDS IN TIANJIN

11:10
OP41
Li Yuan, CN
GLARE SENSITIVITY OF PILOTS WITH DIFFERENT AGES AND ITS EFFECTS ON VISUAL PERFORMANCE OF NIGHTTIME FLYING

11:10
OP31
Zhao Weiqiang, CN
EXPERIMENTAL STUDY ON TRANSIENT MEASUREMENT OF THE HIGH POWER LEDS
11:30
OP37
Riad Saraiji, AE
EFFECT OF PARTITIONS ON DAYLIGHT PENETRATION IN OPEN PLAN OFFICE SPACES

11:30
OP42
Grega Bizjak, SI
POSSIBLE ENERGY SAVINGS WITH LED LIGHTING FOR GROWING PLANTS

11:30
Workshop 1
Mesopic Photometry and Application
(Convener: Teresa Goodman)
13:30
Poster Viewing

12:10
Workshop 2
Energy Efficient (Green) Lighting
(Convener: Yanadan Lin)
15:00

12:10
LUNCH

15:00
COFFEE BREAK

15:30
Recent Advances in Lighting Quality and Energy Efficiency with Traditional Light Source Technology
Stewart Mucklejohn, GB
16:00

Poster Viewing
### Invited Talks (Chair: N.N.)

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<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>09:00</td>
<td>Andrew Stockman, GB</td>
<td>CIE2006 Cone Fundamental Based Colorimetry</td>
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<td>09:30</td>
<td>Lorne Whitehead, CA</td>
<td>Improving the CIE Colour Rendering Index – how this can be done and why it matters</td>
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<td>10:00</td>
<td>Kay Rauwerdink, NL</td>
<td>Apples &amp; Pears: Why Standardisation of Performance Requirements for LED Luminaires is Important</td>
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### Measurement of LED (Chair: N.N.)

**09:00 - 10:00**
- **09:00**
  - OP43 Tony Bergen, AU
  - DETERMINING THE MINIMUM TEST DISTANCE IN THE GONIOPHOTOMETRY OF LED LUMINAIRES

**10:00 - 11:00**
- **10:00**
  - OP47 Minchen Wei, US
  - COLOR DISCRIMINATION OF SENIORS WITH AND WITHOUT CATARACT SURGERY UNDER ILLUMINATION FROM TWO FLUORESCENT LAMP TYPES

**11:00 - 12:00**
- **11:00**
  - OP48 Yoshie Imai, JP
  - A STUDY OF COLOR RENDERING PROPERTIES BASED ON COLOR PREFERENCE IN ADAPTATION TO LED LIGHTING

**11:20 - 12:20**
- **11:20**
  - OP49 Jesús Quintero, ES
  - METHOD TO ESTABLISH A COLOR QUALITY AND LUMINOUS EFFICACY RANKING FOR LIGHT SOURCES

**12:00 - 13:00**
- **12:00**
  - OP50 Martijn Witloock, BE
  - EXPERIMENTAL ESTIMATION OF THE EFFECT OF SPECTRUM DISTRIBUTION TO LED COLORIMETRIC QUANTITIES

### Colour Quality Issues (Chair: N.N.)

**13:00 - 14:00**
- **13:00**
  - OP51 G. Lister, GB
  - MICROWAVE-POWERED METAL HALIDE DISCHARGE LIGHTING SYSTEMS

**14:00 - 15:00**
- **14:00**
  - OP52 Chien-Yue Chen, TW
  - A STUDY OF COLOR RENDERING PROPERTIES BASED ON COLOR PREFERENCE IN ADAPTATION TO LED LIGHTING

### Lighting Systems (Chair: N.N.)

**15:00 - 16:00**
- **15:00**
  - OP53 Wim Hertog, ES
  - TESTING COLOR QUALITY AND EFFICACY LIMITS USING A MULTICHANNEL LED LIGHT ENGINE

## Workshop 4

**Colour Quality (Convener: Ronnier Luo)**

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**Workshop 5**

**Street Lighting – are the currently recommended lighting levels right? (Convener: Steve Fotios)**

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**Workshop 6**

**Rapid Urbanization in Asia means daylight Design issues for cities (Convener: Edward Ng)**

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<tr>
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