

Polski Komitet Oświetleniowy SEP
Česká společnost pro osvětlování
Slovenska Svetelnotechnická Spoločnosť
Magyar Elektrotechnikai Egyesület Világítástechnikai Társasága

VI IEEE Lighting Conference of the Visegrad Countries
LUMEN V4

Conference Program

13th September (Tuesday)

13:00 – 21:00 Conference and hotel registration

14:00 Lunch

16:00 **Opening ceremony**

16:30 **Opening session (1)**

Invited lecture

Błaszczak Urszula, Gryko Łukasz, Palkowska Anna, Kulesza Ewa, Zajac Andrzej:
Color mixing in LED illuminating system for endoscopic purposes

Invited lecture

Kittler Richard, Darula Stanislav: History of the daylight criteria conditions
influencing new methods for the determination of interior daylighting

19:00 Welcome Drink

14th September (Wednesday)

8:00 Breakfast

9:00 **Session 2 – Road lighting**

Invited lecture

Žák Petr, Zálešák Jan: The influence of spectral properties of light in street lighting on visual perception

Presented papers

1. Szalai András, Szabó Tamás, Horváth Péter, Tímár András; Poppe András: SmartSSL: application of IoT/CPS design platforms in LED-based street-lighting luminaires
2. Zalewski Sławomir: Concurrent lighting system on roads in practice
3. Lipnický Lukáš, Gašparovský Dionýz, Dubnička Roman: Influence of the calculation grid density to the selected photometric parameters for road lighting

10:30 Coffee break

11:00 **Session 3 – Exterior lighting**

Presented papers

1. Dubnička Roman, Gašparovský Dionýz: Classification system for lighting design under condition of mesopic photometry
2. Różowicz Antoni, Leško Marcin, Wachta Henryk: The technical possibilities of losses reduction in the LED optical systems
3. Hegedüs János, Poppe András: Simulation of luminaires based on chip level multi-domain modeling of power LEDs
4. Žák Petr, Vondráčková Simona: Conception of public lighting
5. Krupiński Rafał: Dynamically variable luminance distribution as the method of designing and architectural floodlighting

12:30 – 13:30 Lunch

14:00 – 15:00 **Poster session**

15:00 Tour for all conference participants

19:30 Grill

15th September (Thursday)

8:00 Breakfast

9:00 **Session 4 – Interior lighting and energy efficiency**

Presented papers

Kéri Renáta, Szabó Ferenc, Csuti Péter: Impact of LED-based lighting on selected historical pigments – preliminary results of a pigment ageing test

Oral presentations (15 minutes)

1. Gašparovský Dionýz, Raditschová Jana: Proposal of a method for assessment of energy performance of home lighting
2. Pracki Piotr, Błaszczak Urszula: The issues of interior lighting on the example of an educational building adjustment to nZEB standard
3. Raditschová Jana, Gašparovský Dionýz: LED retrofits and their role in transition to the more energy efficient home lighting

10:30 Coffee break

11:00 **Session 5 – Interior lighting and photometry**

Presented papers

1. Valíček Pavel, Novák Tomáš, Vaňuš Jan, Sokanský Karel, Martinek Radek: Illuminance evaluation in automatically dimmed interior lighting systems
2. Csuti Péter, Szabó Ferenc, Dubnička Roman: Comparison of luminous intensity distributions measured on luminaire turning and mirror goniophotometer
3. Štěpánek Jaroslav, Škoda Jan, Krbal Michal, Krbalová Maria, Baxant Petr: Ecodesign of light sources

12:30 – 13:30 Lunch

14:00 – 15:00 **Poster session**

15:00 **Session 6 – Daylighting**

Presented papers

1. Darula Stanislav, Kittler Richard: Parameterisation of direct illuminance for an artificial sky with sun
2. Kocifaj Miroslav, Kundracik František: Modeling the night sky brightness distribution via new SkyGlow Simulator

3. Maňková Lucia, Hartman Peter, Hanuliak Peter, Darula Stanislav: The influence of photometric coating on spectral reflectance of artificial sky dome
4. Sokół Natalia, Martyniuk-Pęczek Justyna: An incorporation of contemporary daylight assessment methods into architecture and urban planning of residential areas in Poland

19:30 Gala Dinner

16th September (Friday)

8:00 Breakfast

9:00 **Session 7 – Glare issues**

Presented papers

1. Sawicki Dariusz, Wolska Agnieszka: The unified semantic glare scale for GR and UGR indexes
2. Baxant Petr, Škoda Jan, Sumec Stanislav: Contrast analyzes in lighting technology
3. Słomiński Sebastian: Potential resource of mistakes existing while using the modern methods of measurements and calculation in the glare evaluation
4. Škoda Jan, Sumec Stanislav, Baxant Petr, Motycka Martin: Influence of background luminance on UGR result
5. Bálský Marek: Luminance values extraction from digital images

10:30 Coffee break

11:00 – 12:00 **Poster Session**

12:00 Closing ceremony

Posters

Baleja Richard, Sokanský Karel, Novák Tomáš, Hanusek Tomáš, Bos Petr	Measurement and evaluation of the road lighting in mesopic and photopic vision
Bayer Rudolf, Veselka Tomáš	Measuring reflective properties of surfaces using OPTE-F3K
Bos Petr, Baleja Richard, Sokanský Karel, Novák Tomáš, Ullman Ivo	Selection of lighting systems in outdoor electrical stations working together with camera systems
Krbal Michal, Škoda Jan, Štěpánek Jaroslav, Sumec Stanislav, Baxant Petr	Use of photometry in the field of high voltage
Vidovszky- Németh Ágnes, Kosztyán Zsolt	Introductory experiments on preferred picture illuminations
Nádas József, Rakovics Vilmos	Bandwidth widening of semiconductors with luminescent layer
Ferenčíková Mária, Darula Stanislav	Utilization of daylight in school buildings
Gašparovský Dionýz	Case-studies of the assessment of energy performance of road lighting
Kómar Ladislav	Calibration of the artificial sky using fisheye images
Petržala Jaromír, Kómar Ladislav, Kundracik František	Estimation of Garstang emission function parameters from skyglow monitoring by all-sky camera
Dubnička Roman, Lipnický Lukáš, Csuti Péter, Szabó Ferenc	Methods for correction of the LIDC by means of goniophotometers with rotating luminaires for different lamps
Czyżewski Dariusz	Investigation of COB LED luminance distribution
Czyżewski Dariusz	Monitoring of the subsequent LED lighting installation in Warsaw in the years 2014-2015
Dziedzicki Michał	The analysis of asymmetric wall lighting in interior
Fryc Irena, Dimitrova-Grekow Teodoora	An automated system for evaluation of the quality of light sources
Kubiak Kamil	Light source modeling for utilization in asymmetric reflector design for even surface illumination
Malska Wiesława, Wachta Henryk,	Elements of inferential statistics in a quantitative assessment of illuminations of architectural structures
Owczarek Grzegorz, Gralewicz Grzegorz, Kubrak Janusz	Infrared safety filter with variable spectral characteristic in visible region
Pawlak Andrzej	Measuring verification of computer simulations for the escape route lighting installation
Różowicz Antoni, Baran Krzysztof, Wachta Henryk	Radiation studies of the illumination lighting luminaires with LED technology
Rybczyński Andrzej, Wolska Agnieszka	Selected measurement problems during the evaluation of occupational exposure to UV radiation emitted by the welding arc
Skarżyński Krzysztof	Field measurements of Floodlighting Utilisation Factor
Szajna Grzegorz, Szewczul Joanna	Calibration of glossmeter
Tabaka Przemysław, Fryc Irena	Landscape lighting as a source of light pollution - the effect of the seasons on this phenomenon
Treder Jadwiga, Borkowska Anna, Treder Waldemar, Klamkowski Krzysztof	The effects of LEDs on growth and morphogenesis of vegetable seedlings cultivated in growth chambers
Wandachowicz Krzysztof, Górczewska Małgorzata	Reflector shape design using merit function and genetic algorithm
Wiśniewski Andrzej	The reduction wattage of HID lamps and LED modules
Zajkowski Maciej, Budzyński Łukasz, Tyniecki Damian	Luminous flux ring mixer
Zalesińska Małgorzata, Górczewska Małgorzata	Comparative study of lighting quality and energy efficiency for various road lighting situations