

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, Kulesza Ewa, Palkowska Anna, Zając 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 determination of interior daylighting

19:00 Welcome Drink

14th September (Wednesday)

8:00 Breakfast

9:00 **Session 2 – Road lighting**

Invited lecture

Žák P., Zálešák J.: The influence of spectral properties of light in street lighting

Oral presentations (15 minutes)

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: Influence of the calculation grid density to the selected photometric parameters U0 and U1

10:30 Coffee break

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

Oral presentations (15 minutes)

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 optical systems of LED sources
3. Hegedüs János, Poppe András: Simulation of luminaires based on chip level multi-domain modeling of power LEDs
4. Žák P., Vondráčková S.: Conception of public lighting
5. Krupiński Rafał: Dynamically variable luminance distribution as the method of designing and architectural floodlighting

Presentation of Strategic Partner

12:30 – 13:30 Lunch

14:00 – 15:00 **Poster session**

15:00 Mountain Tour for all conference participants

19:30 Grill

15th September (Thursday)

8:00 Breakfast

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

Invited lecture

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 lighting energy efficiency in interiors on the example of an educational building adjustment to nearly zero-energy standard
3. Raditschová Jana, Gašparovský Dionýz: LED retrofits and their role in transient to the more energy efficient home lighting

10:30 Coffee break

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

Oral presentations (15 minutes)

1. Valíček Pavel, Novák Tomáš, Vaňuš Jan, Sokanský Karel, Martinek Radek: Illuminance evaluation in automatically dimmed interior lighting systems
2. Csuti, Péter; Szabó, Ferenc; Dubnicka, 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

Presentation of Platinum Partner

12:30 – 13:30 Lunch

14:00 – 15:00 **Poster session**

15:00 **Session 6 – Daylighting and photometry**

Oral presentations (15 minutes)

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

Presentation of Gold Partner

19:30 Gala Dinner

16th September (Friday)

8:00 Breakfast

9:00 **Session 7 – Glare issues**

Oral presentations (15 minutes)

1. Sawicki Dariusz, Wolska Agnieszka: The unified semantic glare scale for GR and UGR indexes
2. Baxant Petr, Skoda Jan, Sumec Stanislav: Contrast analyzes in lighting technology
3. Słomiński Sebastian: Practical verification of mathematical relationships associated with glare prediction for selected luminaires
4. Škoda Jan, Sumec Stanislav, Baxant Petr: 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