

## CIE Tutorial and Practical Workshop on LED Lamp and Luminaire Testing according to CIE S 025

Nov 05 – 07, 2018, Moscow

### Detailed program:

Monday, Nov 5, 2018 , Venue: Holiday Inn Moscow Sushevsky, Sushevsky Val 74 Moscow		
9:15- 9:30	<i>Registration &amp; Coffee</i>	
9:30 – 9:40	Welcome by the host / CIE	Anna Shakhparunyants, Georgy Boos /Yoshi Ohno
9:40 – 10:10	International Standardization of light and lighting - what is a standard? - different organizations, CIE, ISO, IEC, CEN,... - legal requirements (example Europe)	Peter Blattner
10:10 – 11:00	Basic Concepts of Photometry - $v(\lambda)$ , - quality of photometric instruments - distance law - goniophotometry	Armin Sperling
11:00 – 11:20	<i>Coffee break</i>	
11:20 – 11:40	Basic Concepts of Photometry - flux integration	Nathalie Leise
11:40 – 12:30	Introduction of CIE S025 –part 1	Tony Bergen
12:30 – 13:30	<i>Lunch break</i>	
13:30 – 14:30	Introduction of CIE S025 –part 2	Anders Thorseth
14:30 – 15:10	Spectroradiometry	Ralf Zuber / Peter Sperfeld
15:10 – 15:30	<i>Tea break</i>	
15:30 – 17:00	Introduction to measurement uncertainty	Benjamin Ruggaber
17:30 – 21.30	Departure to Boat tour. Gala dinner	

Tuesday, Nov 6, 2018 , Venue: VNISI – Laboratories, 1-st Rizhskiy per, bld.6				
8:45 – 9:00	<i>Welcome at VNISI</i>			
9:00 – 10:30	Lab 1: Group A	Lab 2: Group B	Lab 3: Group C	Lab 4: Group D
10:30 – 11:00	<i>Coffee break</i>			
11:00 – 12:30	Lab 1: Group B	Lab 2: Group C	Lab 3: Group D	Lab 4: Group A
12:30 – 13:30	<i>Lunch break</i>			
13:30 – 15:00	Lab 1: Group C	Lab 2: Group D	Lab 3: Group A	Lab 4: Group B
15:00 – 15:30	<i>Tea break</i>			
15:30 – 17:00	Lab 1: Group D	Lab 2: Group A	Lab 3: Group B	Lab 4: Group C
17:30 – 20:30	Departure from VNISI to Tretyakovskaya Gallery			

Lab 1: Goniophotometry : Anders Thorseth / Tony Bergen / Aleksander Porubov  
 Lab 2: Integrating sphere : Nathalie Leise / Yoshi Ohno / Belyaev Roman  
 Lab 3: Spectroradiometry : Ralf Zuber / Peter Sperfeld / Khlevnoy Boris  
 Lab 4: Computer Simulations (Excel): Benjamin Ruggaber / Armin Sperling/ Peter Blattner / Bartsev Alexey

Wednesday, Nov 7, 2018 , Venue: Interlight Moscow powered by Light+Building, 14, Krasnopresnenskaya nab., Moscow		
9:00 – 10:00	A bus from the Holiday Inn Hotel	Julia Glorio
10:15 – 10:45	Electrical measurements	Tony Bergen / Anders Thorseth
10:45 – 11:15	Measurements of colour quality	Yoshi Ohno
11:15– 11:45	Review, feedback, questions and answers	Tony Bergen
11:45 – 12:15	<i>Coffee break</i>	
12:15 – 13:15	Optical primary realization & Traceability & CCPR	VNIIOFI
13:15 – 13:45	<i>CIE Activities, Closure &amp; Group picture</i>	Peter Blattner



International Commission on Illumination  
Commission Internationale de l'Eclairage  
Internationale Beleuchtungskommission



13:45 – 14:15	Lunch Break	
Afternoon	Group tour on Interlight Moscow powered by Light+Building	



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