



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

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

May 08 – 11, 2017, METAS Bern–Wabern, Switzerland,
<http://www.metas.ch>

Address: Lindenweg 50, 3084 Wabern. (+41 58 387 01 11)

Public Transport (<http://www.bernmobil.ch>, www.sbb.ch):

- Tram 9 direction Wabern, Stop Gurtenbahn then Bus 29 direction Lindenweg.

- or: Tram 9 direction Wabern, Terminal stop Wabern, then 15 min walking.

Conference webpage: http://div2.cie.co.at/?i_ca_id=1013

Registration webpage: <https://goo.gl/forms/Eoy8ZPCsrK6q7kSm2>

Detailed program (V2):

Monday, 8.5.2017		
12:30 – 13:30	<i>Registration</i>	
13:30 – 13:45	Welcome by the host	
13:45 – 14:00	Welcome by CIE President & Importance of CIE S 025	Yoshi Ohno
14:00 – 15:15	Introduction to CIE S 025	Tony Bergen
15:15 – 15:45	<i>Tea break</i>	
15:45 – 16:45	Measurement uncertainty in the context of CIE S 025	Peter Blattner
16:45 – 17:30	Breakout session	
18:00	<i>Welcome reception at METAS</i>	

Lab A: Goniophotometry (PB30 Gurten)

Lab B: Integrating sphere (PB30 Aare)

Lab C: Spectroradiometry (KC19)

Lab D: Electrical parameters (tbc)



Tuesday, 9.5.2017				
8:30 – 9:00	<i>Coffee & Registration</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 A	Lab 2: Group B	Lab 3: Group C	Lab 4: Group D
12:30 – 13:30	<i>Lunch break</i>			
13:30 – 15:00	Lab 1: Group B	Lab 2: Group C	Lab 3: Group D	Lab 4: Group A
15:00 – 15:30	<i>Tea break</i>			
15:30 – 17:00	Lab 1: Group B	Lab 2: Group C	Lab 3: Group D	Lab 4: Group A

Wednesday, 10.5.2017				
8:30 – 9:00	<i>Coffee & Registration</i>			
9:00 – 10:30	Lab 1: Group C	Lab 2: Group D	Lab 3: Group A	Lab 4: Group B
10:30 – 11:00	<i>Coffee break</i>			
11:00 – 12:30	Lab 1: Group C	Lab 2: Group D	Lab 3: Group A	Lab 4: Group B
12:30 – 13:30	<i>Lunch break</i>			
13:30 – 15:00	Lab 1: Group D	Lab 2: Group A	Lab 3: Group B	Lab 4: Group C
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
19:00	Conference Dinner at Restaurant Gurten (use funicular at 18:00/18:15/18:30/18:45)			



Thursday, 11.5.2017		
09:00 – 10:00	GUM based approach to measurement uncertainty of spectral data	Benjamin Ruggaber
10:00 – 10:30	Simplified approach to measurement uncertainty	Tony Bergen
10:30 – 11:00	<i>Coffee break</i>	
11:00 – 11:30	New CIE color fidelity index	Yoshi Ohno
11:30 – 11:50	LED Standardization, present & future	Guy Vandermeersch
11:50 – 12:20	critical review & feedback to CIE S025	Tony Bergen
12:20 – 12:30	<i>Closure & Group picture</i>	Peter Blattner
12:30 – 13:30	Lunch Break	

METAS Lab-visits (for non tutorial participants)

Starting at 9:30 until 10:45, followed by coffee break and participation at invited talks (Ohno and Vandermeersch) and final discussion

EMPIR– MESAIL Stakeholder Meeting, METAS (<http://www.eng62-mesail.eu>)

participation free of charge

Thursday, 11.5.2017		
13:30 – 13:45	Introduction and overview	Elena Revtova
13:45 – 14:05	Multiple Transfer Standard for Sphere– and Goniophotometry	Armin Sperling
14:05 – 14:25	Development of electrical test standards and methods	Dongsheng Zhao Tuomas Poikonen
14:25 – 14:40	Safety and comfort aspects	Dominique Renoux
14:40 – 15:00	Reliability, lifetime and ageing	tbc
15:00– 15:10	Conclusion	Elena Revtova
15:10 – 15:30	<i>Coffee break</i>	



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

EMPIR– PhotoLED Stakeholder Meeting, METAS (<http://photoled.aalto.fi>)

participation free of charge, please register

Thursday, 11.5.2017		
15:30 – 15:45	General overview of the project	Tuomas Poikonen
15:45 – 16:00	White luminous intensity LED sources, future intercomparisons	Armin Sperling
16:00–16:15	White luminous flux transfer standard lamps (LED, DC + AC)	Dongsheng Zhao Paul Dekker
16:15– 16:30	New measurement methods for test laboratories and NMIs (PQED + spectral meas., fisheye camera)	Tuomas Poikonen
16:30– 17:00	Discussion	Tuomas Poikonen Peter Blattner

CIE TC2–77 “Fundamental Concepts” Meeting, METAS

Participant open to non–members, Place register in advance, small participation fee

Starting from 17:30, includes BBQ & drinks

Topic: Measurement uncertainty based on Bayesian statistics

Special Guest: Frédéric Pythoud (METAS)



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

Schedule CIE TC Meetings

Participant open to non-members, Place register in advance, small participation fee

Friday, 12.5.2017		
9:00 – 10:30	TC2-78 The Goniophotometry of Lamps and Luminaires	Tony Bergen
10:30–11:00	<i>Coffee break</i>	
11:00–12:30	TC2-83 CIE Standard on test methods for OLED light sources	Guy Vandermeersch
12:30–13:30	<i>Lunch break</i>	
13:30–15:00	TC2-80 Spectroradiometric Measurement of Light Sources	Richard Young
15:00–15:30	<i>Tea break</i>	
15:30–16:30	TC2-50 Measurement of the Optical Properties of LED Assemblies	Richard Distl