



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

## CIE TUTORIAL ON MONTE CARLO METHOD FOR UNCERTAINTY ANALYSIS

17 September 2026

Seogwipo KAL Hotel, Jeju Island, South Korea

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

**CIE TUTORIAL  
MONTE CARLO METHOD  
FOR UNCERTAINTY ANALYSIS**

September 17, 2026 | Seogwipo KAL Hotel, Jeju Island, South Korea

**K-cie** Korean National  
Committee of CIE

Division 2  
Physical Measurement  
of Light and  
Radiation

The CIE Tutorial on Monte Carlo Method for Uncertainty Analysis is organised by CIE NC Korea and **CIE Division 2: Physical Measurement of Light and Radiation**, in conjunction with the 16th International Conference on New Developments and Applications in Optical Radiometry (NEWRAD 2026). It will take place at the **Seogwipo KAL Hotel in Jeju Island, South Korea**, on **17 September 2026**, following the conclusion of NEWRAD 2026. The tutorial will start at 13:00 and conclude at 18:30 Korea Standard Time (UTC+9). The **CIE Division 2 Annual Meeting** will take place on **18 September 2026**, from **08:30 Korea Standard Time (UTC+9)**, at the same venue. Meetings of several CIE Division 2 Technical Committees will follow after the Annual Meeting.

### CONTEXT AND CONTRIBUTION TO CIE WORK

The CIE Tutorial on Monte Carlo Method for Uncertainty Analysis will present the principles and practical applications of the Monte Carlo method for uncertainty analysis in photometry and radiometry, with reference to **CIE 198:2011 Determination of Measurement Uncertainties in Photometry** and its supplements **CIE 198-SP1.1:2011 Modules for the Construction of Measurement Equations** and **CIE 198-SP1.2:2011 Examples for Models with Individual Inputs**. The tutorial provides both theoretical background and practical guidance, supporting professionals in strengthening their understanding of uncertainty evaluation in line with established CIE publications.

The tutorial offers valuable insights and is particularly relevant for professional working in photometry and radiometry, including photometry calibration laboratories (such as National Metrology Institutes), testing laboratories in photometry, radiometry, and colorimetry, as well as manufacturers and users of photometric and radiometric instruments.

For more information, please visit the **CIE website**.



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

## TUTORIAL PROGRAMME AND SPEAKERS

Time (KST)	Topic	Lecturer
13:00 – 13:30	Introduction and survey on measurement uncertainty trainings	Dr Dong-Hoon Lee (Division 2 Director)
13:30 – 14:30	Introduction to MC methods for measurement uncertainty estimation in photometry	Dr Tobias Schneider (Instrument Systems, Germany)
14:30 – 15:30	MC methods for uncertainty evaluation of spectral integrals	Prof Erkki Ikonen (Aalto University, Finland)
15:30 – 16:00	Coffee/Tea Break	
16:00 – 17:00	Implementation of MC-based uncertainty analysis for array spectroradiometer measurements	Dr Saulius Nevas (PTB, Germany) Dr David Hinken (ISFH, Germany)
17:00 – 18:00	Application of MC for inputs to algorithmic "black box" calculations	Dr Anders Thorseth (DTU, Denmark)
18:00 – 18:30	Closing of the tutorial	Dr Dong-Hoon Lee (Division 2 Director)

## CIE DIVISION 2 ANNUAL MEETING AND TECHNICAL COMMITTEE MEETINGS

The CIE Division 2 Annual Meeting will take place on **18 September 2026**. Several CIE Division 2 Technical Committees will also hold their meetings on this day.

Time (KST)	Room (Capacity)	Meeting	Chair
08:30 – 12:00	Diamond (100 pax)	CIE Division 2 Annual Meeting	Dong-Hoon Lee
12:00 – 13:00	Lunch Break		
13:00 – 14:00	Rose (50 pax)	TC 2-89 Measurement of Temporal Light Modulation of Light Sources and Lighting Systems	Qian (Cherry) Li
14:00 – 15:00	Rose (50 pax)	TC 2-98 Revision of CIE 130-1998 Practical Methods for the Measurement of Reflectance and Transmittance	Tatjana Quast
15:00 – 15:30	Coffee/Tea Break		
16:00 – 17:00	Diamond (100 pax)	RF 05 Implementation of CIE 2006 Cone Fundamentals in Photometric and Colorimetric Measurements	Tony Bergen
17:00 – 18:00	Rose (50 pax)	TC 2-102 Roadmap for Measurement Uncertainty Training	Dong-Hoon Lee



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

19:00 – 21:00	External (announced separately)	TC 2-77 Fundamental Concepts	Tony Bergen
---------------	---------------------------------------	------------------------------	-------------

The latest draft programme can be downloaded below. Please note that it remains subject to change.  
**[Download the programme \(PDF\)](#)**

## REGISTRATION

Participation in both the Tutorial and Division & TC Meetings is subject to a registration fee. Detailed price information can be found **[HERE](#)**. **The registration will open on 15 June 2026.**

In the meantime, you can register your interest **[HERE](#)** to receive a notification when official registration opens.

## TUTORIAL PLANNING COMMITTEE

The planning committee consists of members of **[CIE TC 2-102: Roadmap for Measurement Uncertainty Training](#)**, as listed below:

- **Dong-Hoon Lee** – Chair of TC 2-102, Director of Division 2
- **Gaël Obein** – Member of TC 2-102, Secretary of Division 2
- **Qian (Cherry) Li** – Member of TC 2-102, Associate Director of Division 2
- **Tobias Schneider** – Member of TC 2-102, Associate Director of Division 2
- **Hiroshi Shitomi** – Member of TC 2-102, Associate Director of Division 2
- **Tony Bergen** – Member of TC 2-102, CIE Vice-President Technical
- **Erkki Ikonen** – Member of TC 2-102
- **Udo Krüger** – Member of TC 2-102
- **Johannes Ledig** – Member of TC 2-102

## ORGANISERS

Division 2  
Physical  
Measurement  
of Light and  
Radiation



**K-cie** Korean National  
Committee of CIE