

Call for participation

2nd CIE EXPERT SYMPOSIUM on LED MEASUREMENT

Standard methods for specifying and measuring LED and LED Cluster characteristics

10 - 12 May 2001

Holiday Inn, Gaithersburg, Maryland
USA

CIE Central Bureau
Kegelgasse 27
A-1030 Vienna
AUSTRIA
Fax: +43 1 713 08 38 18
E-mail: ciecb@ping.at

Background

The first CIE Expert Symposium on LED measurement was held at the CIE Central Bureau in Vienna in 1997. During the past four years LEDs observed a considerable progress. Both as individual lamps and as clusters for signalling and recently even for lighting purposes LEDs have become competitive with more traditional light sources. Currently there are considerable efforts within the LED industry and the community who use LEDs to standardise on LED characterisation and measurement. Several CIE Technical Committees are active in the field.

Goals

The goals of the meeting are:

- *Characterisation of LEDs and the measurement of individual LEDs,*
- *Measurement of LED clusters and arrays,*
- *Other aspects of LED measurements, including safety issues.*

Who should attend

This meeting is open to all participants. To insure adequate space and support, and to allow distribution and adequate review of relevant documents, prior registration is required. The following individuals are specifically encouraged to attend:

- *Quality control laboratory personnel at LED manufacturers and users.*
- *Those responsible in specifying and testing LED properties.*
- *Those working in research laboratories dealing with new LEDs and LED-clusters.*

Venue

Gaithersburg, Maryland, is in the suburbs of Washington DC, where National Institute of Standards and Technology (NIST) is located. For hotel and transportation information, see the Symposium website:

<http://physics.nist.gov/LED2001>

or contact the Co-chair, Yoshi Ohno,
E-mail: ohno@nist.gov Tel: +1 301 975 2321

TUTORIAL SESSION

10 May 2001

Yoshi Ohno: Introduction to photometry and radiometry of LEDs

Teresa Goodman: Introduction to spectroradiometry and colorimetry of LEDs

Georg Sauter: Uncertainty principles and their application to LED measurement

Kathleen Muray: CIE work on LED measurement

János Schanda: Visual aspects connected with LED measurement

SYMPOSIUM

11 & 12 May 2001

Invited Papers

CK Andersen: Considerations in the use of LED clusters for transportation signalling

G Heidel: Measurement problems in LED production

S Jenkins: Use of LED clusters for signals and their measurement

S Johnson: State of the art of OLED technologies

K Kohmoto: Development of white LEDs in Japan

G Mueller: State of the art of LED technologies (Keynote paper)

DH Sliney and BE Stuck: The potential ocular hazards of LED emitters

R Young: LED measurement instrumentation

Contributed Papers

W Horak et al: Comparative optical radiation safety analysis of new LED-devices and -lamps

B Kránicz and Y Ohno: Deconvolution for spectral data of LEDs

C Lányi et al: Introducing a CD-ROM on LEDs

WJ Marshall: Laser source size as a function of distance

CC Miller and Y Ohno: Luminous intensity measurements of light emitting diodes at NIST

CC Miller and Y Ohno: Luminous flux calibration of LEDs at NIST

K Muray et al: Comparison measurements of LEDs: Spectral power distribution

T Nägele: Problems and requirements of the optical characterization of LEDs

Y Ohno and B Kránicz: Spectroradiometer characterization for colorimetry of LEDs

J Schanda et al: Light emitting diode standards

K Suzuki et al: Round robin LED photometry test in Japan

T Tarczali et al: Colour rendering properties of LED sources

R Young et al: Quantifying photometric spectral mismatch uncertainties in LED measurements

Registration

- ♦ LED measurement tutorials, 10 May 2001. Several CIE publications and lecture notes will serve as background material for the tutorials.
Registration fee: US\$ 400,-
- ♦ LED Symposium, 11-12 May 2001.
Registration fee: US\$ 250,-

For participants of both parts a reduced registration fee of US\$ 500,- holds.

Deadline for registration is 15 April 2001, to be sent to the CIE Central Bureau Bank Account: 04610-665-450 at BAWAG Landstraßer Hauptstraße 60, A-1030 Wien, Austria. VISA, Master Card, American Express credit card also honoured.

The Symposium will be followed by meetings of CORM 2001 and CIE Div. 2:

May 13 pm: *CORM/CIE social event* at Smithsonian National Gallery of Art (Symposium participants invited)

May 14: *CORM subcommittee and CIE TC meetings* at NIST (open to nonmembers as guests)

May 15 to 16: *CORM2001*, with NIST laboratory tour on May 16 pm (open to CORM and CIE participants)

May 17 to 19 *CIE Div. 2 and TC meetings* at NIST and Holiday Inn Gaithersburg

Final registration

Please return this registration card for final registration to CIE Central Bureau (mail address, fax, e-mail on the cover). Copies of this 2nd Circular can be obtained also from

<http://physics.nist.gov/LED2001>

<http://www.cie.co.at/cie/symp/symposia.html>

I wish to attend the

CIE LED Tutorial Workshop 2001

2nd CIE LED Symposium 2001

Name:

(please print)

Occupation / Title:

Mailing address:

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City: Code:

Country:

Telephone: (.....)

Fax: (.....)

E-Mail:

Payment

Credit card

VISA Master American Express

Card Number

Exp. Date

Amount in \$US

Signature

Direct deposit to CIE CB Bank Account

To be paid on-site. Only \$US accepted. There will be no printed receipts for credit card payment.