

Jul. 15, 2003

## **Summary of 2003 CIE Division 2 Meeting**

9:00 – 18:00, 2 July 2003, San Diego

The 2003 CIE Division 2 meeting was held at Town and Country hotel, San Diego, July 2, 2003, as part of the 25<sup>th</sup> Session of the CIE. We had 70 participants, a record in recent years.

### **Report by the new CIE President**

The new CIE President, Wout van Bommel, gave a report on the vision of CIE and the Board plans. His PPT presentation is available on the website. See the note at the end.

### **D2 management team**

Following a vote within the Division, DD Teresa Goodman will continue to serve as DD for another term. Our current ADs (Norb Johnson, Georg Sauter and Guy Vandermeersch) and Secretary (Yoshi Ohno) will also continue. The Editor, John Moore, has resigned. D2 thanks John for his dedicated work and extremely thorough job as D2 Editor for many years. Our new D2 Editor is Jim Gardner (Australia).

### **Two issues in debate**

During Editor's report, D2 made decisions on the following two issues that were in debate.

#### 1) Radiance / luminance definition in DS010.2e and ILV

There were active debates on this subject last year via the e-mail reflector. Strong opinions were expressed, but these were evenly divided between keeping the definition unchanged and the various proposed options for change. It was also confirmed that, the current form of equation was deliberately chosen when the ILV was last revised, and was changed from the double to single derivative form. Based on the general policy for the ILV, that existing definitions should stand unless there is a strong consensus for change, D2 voted that the definition of radiance (and related quantities) in the ILV and DS010.2e should be left unchanged. A suggestion was made by J. Schanda to add a note on the other form of equation (using  $d^2\Omega$ ), which will be considered.

#### 2) Wavelength definition of Illuminant A in DS014-2.

DS014-2 is a revision of ISO 10526/CIE S005 Joint ISO/CIE standard: CIE standard illuminants for colorimetry (1999). The version distributed for Divisional ballot in March 2003 stated that the wavelengths given in the tables for Illuminant A apply in vacuum, due to an interpretation that the original equation in 1931 was for vacuum wavelengths. There was one negative vote (USA) and one vote with comment (Canada), both requesting an explicit change to standard air, to ensure consistency with other CIE colorimetric tables. After some discussion, D2 voted, with no objection, to ask the CIE Board to adopt a resolution stating that the wavelengths used in the tables defining Standard Illuminant A apply for standard air (this resolution was subsequently passed by the Board). It was also agreed that DS014-2 would be amended as necessary, to make clear that the wavelengths are for standard air and to update the notes explaining the history.

## **Dissolution of TCs and reporterships**

TC2-04 Secondary standard sources: TC report has been published as CIE 149:2002.

TC2-24 Users guide for the selection of illuminance and luminance meters: To be closed if contact with the chairman cannot be re-established (note that following discussion with colleagues of the chairman, it is apparent that he is no longer involved in this work and the Board therefore agreed that the TC should be dissolved).

TC2-55 Round Robin Investigation of Implementation of CIE Photobiological Safety Standard: Chairman resigned and no new volunteer. Also, S009 is being reconsidered in Division 6 and an intercomparison is therefore premature.

R2-05 Visual Gloss: A report has been produced. Further work on this topic will be pursued in D1 via a new TC on Visual appearance measurement.

## **New TCs and Reporterships**

D2 agreed to establish the following new TCs.

1) TC 2-56 (S) CIE/ISO standard on retroreflection measurements

Chair: Cameron Miller (USA)

TR: To prepare a CIE/ISO standard on the measurement of retroreflective materials based on CIE Publication 54.2

It was already agreed in 2002 to establish this new TC, but the chairperson was not determined. A new candidate, C. Miller, was recommended and accepted.

2) TC2-57 (S) Revision of CIE S014-2

Chair: Alan Robertson (Canada)

TR: To revise CIE Standard S014-2 (CIE Standard Illuminants) to include Illuminant D50

Proposed in the liaison report of ISO TC6/WG3 by Joanne Zwinkels. The paper and graphics arts industries (ISO TC130) have requested that Illuminant D50 should be included in this CIE standard.

3) TC2-58 Measurement of LED radiance and luminance

Chair: Kohtaro Kohmoto (Japan)

TR: To prepare a Technical Report setting out recommendations for measurement of the radiance and luminance of LEDs, taking particular account of the specific requirements for evaluation of photobiological safety

The issue was raised by D6 and brought to TC2-45. The TC2-45 meeting on Jul. 1, 2003 agreed that this is a substantial issue crossing D2 and D6 and should be handled in a separate TC.

D2 agreed to establish the following new reporterships.

1) Visual appearance measurement, Mike Pointer (UK)

2) Measurement of laser-based projection displays, Keith Niall (Canada)

3) Methods for characterising and calibrating detectors in photon counting regime, Maria Luisa Rastello (Italy)

Note: The titles and TRs shown above may not be in the exact wording as finally approved. See the forthcoming minutes for the official titles and TRs.

### **Changes in TCs and reporterships**

- The chair of TC2-17 changed to Gene Zerlaut (USA) ... before San Diego meeting.
- The TR of TC2-23 will be revised to include an addendum on measurement of TL5 lamps, once R2-30 is completed.
- The chair of TC2-44 has changed to the new Editor, Jim Gardner.
- The TR of TC2-51 have been revised.
- The liaison person for CCPR changed to Yoshi Ohno ... before San Diego meeting.
- The liaison person for IEC TC100 has changed to Danny Rich (USA).

### **Future D2 meetings and symposia**

#### **2004**

There were two options:

- 1) D1 has decided to have its next meeting in Tokyo, Japan, in early June 2004, and proposed to have joint D1/D2 meetings and a D1/D2 joint symposium on LEDs
- 2) IEN, Italy extended an invitation to hold the next D2 meeting and LED symposium in Turin, Italy.

D2 voted unanimously to meet in Tokyo, Japan and also to hold a D1/D2 joint symposium on measurement and visual aspects of LEDs. The dates are TBD soon.

#### **2005**

There are two options:

- 1) Leon, Spain, in conjunction with CIE Midterm meeting and AIC meeting (May 2005)
- 2) Davos, Switzerland, in conjunction with NEWRAD, Sep. 19-23, 2005.

The preliminary choice of D2 was Leon, Spain, by dominant vote. A formal decision will be made next year. It was also decided that D2 will organize another symposium on uncertainty evaluation in 2005.

#### **2006**

We have an invitation from G. Sauter for a D2 meeting at PTB, Braunschweig, Germany. Still open to other invitations. Formal decision will be made in 2005.

For further details, refer to the minutes of the 2003 D2 meeting that are forthcoming. The materials presented at the meeting and some reports received after the meeting are posted at: <http://cie2.nist.gov/documents/2003-D2.htm>

Compiled by D2 Director and Secretary