



## **The minutes of the Division 4 meeting in León, Spain, on the 16<sup>th</sup> in May 2005, 9.00 - 11.00, and on the 17<sup>nd</sup> in May 2005, 13.00 - 16.20**

16 NC's were represented: Finland, Netherlands, Hungary, Italy, France, Germany, Turkey, USA, Israel, Australia, Japan, Belgium, Slovenia, Czech Republic, Norway and Brazil; altogether over 50 persons attended the meetings (appendix 1).

### **Monday 16.5.2005**

#### **1. Opening of the meeting**

Division director, Pentti Hautala, opened the Division meeting and welcomed everyone present. Division director also pointed out some housekeeping items.

#### **2. Approval of Draft agenda**

Draft agenda, which had been published in DIV 4 web-pages was accepted as the agenda of the meeting.

#### **3. Apologies for the absence**

Division secretary had received eight messages of the absence: Peter Blaser, Paul Carlson, Patrick Baldrey, Kate Painter, Kohei Narisada, Stuart Yerrel, Pieter Walrawen and Paolo Soardo.

#### **4. Approval of the executive summary of the minutes of the last division meeting in Bern**

The last meeting was held on the 8<sup>th</sup> in September and 10<sup>th</sup> in September 2004 in Bern, Switzerland. Some DIV members pointed out that the minutes of that meeting was published very late after the meeting. DS told there was two reasons: His own problems with timing between “CIE job” and “own job” and the fact that Tampere University of Technology changed last winter the computer where the Division webpages are located, so DS thought “the whole world” can see the minutes, but he had placed them in wrong place. Also the version of minutes that is in the webpage (16.5.) is “invalid”, there are missing pages of those TC:s summaries which had meeting in Bern. DS told he will update the webpage soon after going back to Finland. After some minor changes the summary was approved.

#### **5. Announcements**

DD told about changes in TC5-21 timing.  
DD also reminded about workshop: “Intelligent Road lighting”

## 6. Report by the Division director

DD:s report is based on Division Directors's, CIE Board of Administration and General Assembly meetings earlier last week in León.

- CIE budget is now better
- Due to that:
  - The prices of CIE reports can be cheked
  - Some money returned to NC:s; CIE will later inform how to use this money to “advertice” CIE and its work in every country.
- There has been at GA meeting a short workshop about the question how national comittees finance their work; very different ways.
- In the Board Meeting there has been discussions about the structure of whole CIE: the structure is for some parts of it almost 25 years old and do not necessarily match to the present demands of the “Outside World” and TC:s work. There also has been due to that reason some comments about combining or reorganising of divisions. In October 2006 there will be a whole day Board meeting about this question. DIV 4 will have it's next meeting before that and we can then have a serious discussion if division members want to give some input to that meeting.

## 7. Secretary's announcements

The division secretary had some announcements:

- DS said some DIV members had told that there has been some problems with emails. DS reminded about the sentence in DIV webpages: “Please include letters CIE in the subject of your email, so the secretary can separate your amail from spam.” He told he has to receive hundreds of spam emails every day which are automatically separated from other email, so for example after summer holidays he can find 4000 mails which “email-robot” has chosen directgly to “spam-folder”, and it is quite impossible to find important emails among them, but it is easy to find emails with letters CIE in the subject.

-He said he hopes all TC-chairs give the report of their TC meeting by email next week, so that the minutes can be published latest one month after the meeting. After a short discussion the meeting decided that it is better that TC-Chairs give their reports in DIV 4 meeting on Tuesday. He also mentioned he wants only a short report of the real situation of TC:s, not the complete minutes.

- There was some discussion about the minimum number of TC:s having meeting in León; DS told Ad de Visser has been working whith database so that it is easier in future to produce reports about TC activities: how many meetings, what is the real situation of TC etc.

- Giuseppe Rossi pointed out that it would be easier if DIV meetins could always be in the autumn, because people usually have more time in the summertime to produce reports etc. DD will report this opinion in the next Board meeting.

## 8 Editors report

Patric Paldrey was not in León but he had sent it earlier to DS:

CIE 88:2004 (2nd edition) 'Guide for the Lighting of Road Tunnels and Underpasses' has been published in October 2004. This publication replaces CIE 88:1990 with the same title.

The press release, issued at publication reads:

'After having reviewed and defined the various factors to be taken into consideration with the lighting of road tunnels and underpasses, the present document sets out recommendations concerning the daytime and night-time lighting. It also describes the measures to be taken into consideration in order to adapt this lighting to the fluctuations in the external lighting or in the case of failure of the normal electrical power supply of the lighting installations. Attention is also given to maintenance which has to be carried out in order to ensure the lasting quality of the installations.

It is also important to note that while this publication is part of a general activity aimed at improving road safety, safety depends on a large number of factors among which lighting is only one particular constituent. The contribution of lighting in this context is to enable the road user to perform his visual tasks by ensuring a sufficient visibility of objects.'

Two draft documents have also been prepared for editing:

- TC 4-10 'Automobile Lighting Systems' has prepared, in September 2004, for editing: 'Requirements for Light Beam Pattern of Front Fog Lights.'
- TC 4-19 'Road Visibility in Fog' has prepared, in February 2005, for editing, draft 11 with the same title.

## 9. Progress Reports by TC-chairmen

Because there was some time left for the meeting time DD suggested to look about the situation of some TC:s that are not going to have meeting in León.

**TC 4-10:** Ad de Visser told: This TC was sleeping for a long time, but it took a new start few years ago. Karl Manz (and Ad de Visser) have been editing two reports of this TC, the other one is now ready and the second one will be ready to sent to editors desk during next summer.

**TC 4-16:** Ron Simons took up the work again and will finalise the standard by the end of may. After that the standard will be available soon for divisional ballot.

**TC 4-19:** In the editors report: "TC 4-19 'Road Visibility in Fog' has prepared, in February 2005, for editing, draft 11 with the same title." The document has been sended back to Michele Colomb for checking.

**TC 4-24:** Peter Blaser has sent email to DS in April: "About time-table of our work: I have some delay in finishing the final draft. I hope I can send around TC-members till end of June. Then we can have our final TC-meting at the Division meeting in 2006."

**TC 4-27:** Pieter Walraven has sent email to DS in May: " This message concerns TC 4-27 "In service visibility requirements for road markings"). When I became chairman this was meant to be an interim solution. This was not successful. No progress was made. The idea was that the COST-report 311 could be a starting point. In the mean time new developments took place, for instance in the field of self-luminous markings. After consulting several people involved in this area, I suggest:

- to close down the TC;
- to consider whether there is a task for CIE Division 4 in view of these new developments."

The meeting decided to abolish this TC.

**TC 4-32:** DD told Pieter Walraven sent some weeks ago draft report (59 pages). And Pieter told in his email: “ Within a year the draft can be finalized, and then sent to the Division. This means that at the meeting in China the TC can be closed down.” DD suggested to allow one more year to this TC. The meeting agreed.

DD closed this part of the meeting (11.00)

## **Tuesday 17.5.2005**

DD Pentti Hautala reopened the meeting Tuesday 13.05.

During the meeting DD told that an old member of DIV4 ( ike Marsden had died some days ago. After DD’s suggestion the meeting honoured his memory for one minute silence.

## **9. Progress Reports by TC-chairmen**

### **TC 4-11: High Level Matters:**

This TC had meeting in León, TC:s secretary (DS) had made a PowerPoint presentation about TC meeting on Sunday 15.5. This PP-presentation will be added to divisions www-pages. The secretary told that this meeting was especially High Level for the lunch and wnes.

### **TC 4-15: Road Lighting Calculations, Test Data and Measurements:**

This TC had meeting in León, TC-Chair Sermin Onaygil gave her report:

The second meeting of TC 4-15 “Road Lighting Calculations, Test Data and Measurements” has been done in Leon with 24 participants (12 members and 12 visitors) on 16th of May 2005.

At the beginning of the meeting we summarized minutes of last meeting in Bern. Mr. Engin Cebeci has been offered as a secretary of TC and all members accepted.

According to ‘Test Data’, Mr. Van den Brick has already sent to participants, we have started to investigate to add a section to the CIE 140. Because it is in Dutch most of people could have problem to understand, therefore a presentation summarized the following methodology in this document. In this presentation also, we tried to show the differences between CIE 30.2, which is base for ‘Test Data’ document, and CIE 140. There is an example to calculate with this data by using Philips Calculux Program in this presentation. This presentation will be sent TC members.

Discussion has been opened between members and visitors. As a starting point, CIE 30.2 document has been accepted for calibration, because of available test data document. After the collection of calculation results according to this data document, new methodology will be described related with CIE 140. As a result of this, some participants (9 participants from 8 different countries) have been confirmed to send their calculation results by using Test Data till end of June.

Calculation procedure of Threshold Increment (TI) will be discussed later. Visibility concept and measurement part will be considered after complete work of related TC’s. We decided to concentrate on Test Data till next TC meeting.

New participants will be added to e-mail group of TC. The TC works will continue using this e-mail group. Next TC meeting will be done together with Division meeting next year.

**TC 4-16 File format for electronic transfer of luminaire data:**

No meeting in León.

DD told there was some misunderstanding about the type of the TC output. Janos Makai was present and told the result of this TC can be published as a CIE standard.

**TC 4-21 Interference by light of astronomical observation:**

This TC had meeting in León, TC-Chair Marc Gillet gave his report:

The TC met once since last TC meeting in Bern (September 04). The meeting took place in London on December 10th, 2004, with 5 members present. The committee made very little progress during last year due to the existence of very different options that presently co-exist among which : a. lowering of the present figures of the main criteria ULOR b. modify the existing metric or replace it by a more global one taking into account the reflections of the illuminated surfaces as well as angular considerations about the emissions. The terms of reference should be modified in order to include the analysis of new contributions that are on the way in this field and sharing it among the TC members. A drafting committee consisting in D. Crawford, H. Demirdes and M. Gillet shall meet before the end of the year to produce a seventh draft to be submitted to the committee.

**TC 4-26 Systems for measurement of photometric quantities of road lighting installations:**

This TC had meeting in León, TC-Chair Giuseppe Rossi gave his report:

The TC met in Leon on Monday 17th May 2005. Only one member was present but two guests (Chain from France and Buruni from Brazil) asked to become new members.

A check of the members was done especially for those that did not give contributions from several years.

Then the all guide has been reviewed, with more attention at:

1. The new parts considering the importance and peculiarities of measurements carried out with automatic systems and the parameters introduced by TC4-35;
2. The definition and review of parameters used to characterize lighting installations;
3. The evaluation of measurement uncertainty.

Some minor parts of the guide are not complete. The chairman apologise for that, the guide will be complete during summer and immediately distribute to members.

If comments will be positive the TC members' ballot is expected in next spring.

**TC 4-33 Discomfort glare:**

No meeting in León.

Carl Anderson will continue to find a new chairperson. He will present proposal about new TC-chair during next meeting.

**TC 4-36 Visibility design for Roadway lighting:**

No meeting in León, but TC-Chair Richard Stark gave his report:

TC 4-36 did not meet during the Division 4 sessions in May at Leon.

Chairman Richard Stark, however, has contacted the members of the committee who still have not submitted their revisions to the Committee document which is very close to completion.

Six of the eight chapters have been finished with some editing needed. It is anticipated that as the report is finished it will be sent out for committee vote.

The report will cover the background of the visibility concept for roadway lighting design. It will give the reason for a visibility concept followed by a short history and the scientific basis for seeing objects on the roadway. A list of research projects concerning visibility is also included.

Design advantages of the visibility approach and an inexpensive measurement method complete the document.

#### **TC 4-37 Road/transport lighting for developing countries:**

No meeting in León.

DS read the email he got last week from Stuart Yerrell: "I am afraid that, with one or two noble exceptions, events after the Berne meeting followed the usual pattern. Lots of enthusiasm and promises for the material still missing, followed by a very long period of silence. Progress has not been sufficient to justify a formal meeting."

Ad de Visser pointed out that from Stuarts email we can clearly notice that there is no input to the TC-chair. The meeting agreed that TC members should send input to the chairman so the report can be finished.

#### **TC 4-38 Roadsigns**

No meeting in León.

DS told the last information about this TC is the comment he got on TC's report in Bern: "The next meeting will be held in conjunction with the TRB 2004 meeting on January 14, 2005 together with TC4-40."

#### **TC 4-40 Requirements for retroreflective traffic signs:**

Meeting in León, whole day 18.5. Carl Andersen told this TC has had three meetings since Bern meeting. DS suggested he adds the report of León meeting to the minutes;

This is the report of León meeting he got:

The TC4-40 held their second meeting of the year, this time on May 18th, 2005 after the CIE midterm meeting in Leon, Spain. Draft 9 of the final document was the main point of discussion. Specific writing assignments were made as a sense of urgency in terms of completing a final draft is growing. The next TC4-40 meeting will be held in conjunction with the ISAL meeting in Darmstadt, Germany in September, 2005.

Future Meetings

- September 2005 - Darmstadt, Germany (ISAL)
- January 26, 2006 - Washington DC (TRB)
- Next Division meetings in Athens

#### **TC 4-41 Crime and lighting:**

No meeting in León.

Nigel Pollard reported that this TC can be changed into reportership. TC chair would be willing to change to a reporter.

Several persons pointed out that this is important TC and should continue as TC. New candidates for chair appear not to be available. It is clear that reports or methods should be delivered to TC members and DIV4. It was de-

cided that this TC should not yet change into reportership. Also was decided that in every country there should be efforts to seek candidate of new TC-chair. UK people try to transfer input from current chair.

#### **TC 4-43 Emergency lighting in tunnels:**

This TC had meeting in León, TC-Chair Marc Gillet gave his report:

The TC met once in London, December 04. A drafting committee was established as well as a specific website containing all the material of this TC (minutes, papers, videos, drafts, comments on drafts). A drafting committee produced a first draft that was submitted to the full committee in April 04. This first draft was discussed today on May 17th, 2005. This first draft shall be completed and submitted to the TC or the next meeting that is planned in Boston on 17th and 18th of November.

### **10. Progress Reports by Reporters**

#### **R 4-14 Road Lighting and Accidents** (Carl Andersen)

Carl told he sends written report afterwards.

#### **R 4-21 300 mm Traffic Lights** (Carl Andersen)

Carl gave suggested this reportership to be changed to TC, with task to make CIE/ISO standard.

It was agreed that this reportership would be turned into a TC (TC 4-43). Terms of reference will be drafted by the reporter and approved by email correspondence. (Recommendations on 200/300mm signal lights including dimming at night to be prepared).

#### **R 4-22 Use of LEDs in Visual Signalling** (Steve Jenkins)

Steve said he has nothing to report

Meeting decided that in next session a TC should be formed. Reporter to propose terms of reference and members before next meeting so that this new TC can have it's first meeting there.

#### **R 4-23 Management and Maintenance of Road Lighting** (Eirik Bjelland)

DD mentioned that on this item there was a succesfull workshop in León on Monday. A separate document will be added later to the webpages. He also told this item is by his opinion big enough for a new TC. After wery active discussion and a coffee break terms of reffrence was suggested: "To revise CIE Publication 115 in such a way that lighting performance requirements may vary depending on actual status of environmental and traffic conditions." The suggestion for TC-Chair: Pentti Hautala. Also more than 10 names to be a member of this TC. There was a voting wether this reportership should be turned to TC. The majority was in favour, so this will be TC 4-44.

#### **R 4-24 Definition of an Eye Sensitivity Function in the Mesopic Region to be Used for the Calculation of Road Lighting Levels** (Stefan Voelker)

Stefan gave a PowerPoint presentation: "Progress report about the mesopic vision as an example car lighting. This PP-presentation will be added to webpage.

#### **R 4-25 Automotive lighting** (Ad de Visser)

Ad de Visser suggested a TC that should be a joint working group with the existing GTB Working Group EuroNCAP that already has 42 participants from: Audi, BMW, DC, Honda, PSA, Renault, SEAT, Toyota, Volvo, VW, Hella, Ichikoh, Stanley, Koito, NAL, Valeo, Visteon, Zizala, BAST, UK, IDIADA, KEMA, LTIK,

UTAC. The name of this TC is: “Performance assessment method for vehicle headlamps”.

The Chairman of this TC: Geoff Draper (UK)

Suggested terms of reference for new TC: “To develop a technical report that defines an objective procedure for the evaluation of forward-lighting system performance in terms of active safety. Possibly continue to develop the procedure as an industry standard. To start with EuroNCAP.”

Type of publication: Technical report

TC will work along the codes of procedures of both organisations and may turn the report in a later stage into a standard. Consider also other regions of the world.

DD asked if someone is against this TC. No answers, so it was decided to set up this new TC (TC4-45).

**R 4-27 Tunnel lighting** (Paul Lutkewitch)

No report.

**R 4-28 Misaiming of headlights** (Joe Lones)

No report.

Ad de Visser suggested that this reportership should be abolished. Nobody was against, so it was decided to close down this reportership.

## 11. New R&D reports

There was no new R&D reports.

## 12. Discussion of new items

Dick Stark suggested that a new reportership should be established. Because there is not enough information about the research work what’s going on around the world. After a very active discussion it was decided that every country should send information about this item. New reportership: “Collection of research programs” should be established. (R 4-29). Dick Stark as reporter.

## 13. Liaison matters

The next liaison matters were discussed:

**CEN/TC 226: Road Equipment** (Pentti Hautala)

Pentti told that there has been no items related to roadlighting.

**GTB** (Ad de Visser)

Ad told GTB meeting was only one week ago, so no written report yet.

Oral report:

- the acceptance of a worldwide harmonised beam is shifting away;
- regulations for adaptive signal lamps are being developed, taking into account sensors for the weather conditions;
- more and more electronics are introduced in the control of vehicle lighting;
- a lot of effort is paid to LED headlamps regulations.

**Other liaison’s**

There was no other liaisons present.

#### 14. Officers for the next Quadrennium.

DD told that in GA meeting last Saturday it was decided that for the quadrennium 2007-2011:

President of CIE:	Franz Hengstberger, South Africa
Vice-President Publications:	Teresa Goodman, UK
Vice-President Technical:	Janos Schanda, Hungary
Vice President Standard:	Michail Seidl, Germany
Vice President Marketing:	Todd Newman, USA
Secretary:	Ken Sagawa, Japan
Treasurer:	Peter Gradl, Austria
Vice Presidents without portfolio:	
	Lily Chang Wai Ling, China
	Ramani Venkataramani, India
	Gennady Chahparunians, Russian Federation
	Marc Fontoynt, France

#### Division 4 situation:

DD told that although he has still two years left for his DD quadrennium, the selection procedure will be started, so that the next DD can begin the quadrennium as Division Director in Beijing.

DD told that in autumn letter will be sent to all Division members asking to think good candidates for next DD. Every country can suggest three candidates. After all answers has been collected, DD will contact those people whose name is in the list wether they are willing to be a cadidate in election.

Proposal of Division will be forwarded to the Board, GA will nominate the next DD.

#### 14. Planning the future meetings

##### 2006 meeting:

The details of suggested Greece meeting:

Together with conference in Athens  
 Conference "Urban Nightscape" 21.- 24.9. 2006 (Thursday - Sunday)  
 Conference opening seremony 21.9. in the evening  
 DIV 4 meeting and TC-meetings 18.-21.9. 2006  
 Monday 18.9. 2006 TC4-11  
 19.9. DIV 4 preliminary meeting, TC meetings  
 20.9. TC meetings  
 21.9. 2006 am TC meetings, pm DIV4 meeting

Aster discussion it was decided that division secretary will contact people in Greece and discuss all detais.It was also decided that better time for TC4-11 would be in the end of div meeting before the opening ceremony of the Conference.

##### 2007 meeting:

Invitation to Beijing, conference 4.-11.7.2007

##### 2011 meeting:

Invitation to Capetown, South Africa

**16. Other business**

No other business.

**17. Closure**

DD closed the meeting (16.20 ), thanking our hosts about meeting facilities and pleasant atmosphere of our meeting.

A handwritten signature in black ink, appearing to be 'T. Nurmi', with a long horizontal flourish extending to the right.

Tapani Nurmi  
Secretary, CIE DIV 4

## CIE DIV 4 meeting in León, Spain, on the 16<sup>th</sup> in May 2005 and on the 17<sup>nd</sup> in May 2005

### Attendees:

Tapani Nurmi	Finland	Richard E. Stark	USA
Pentti Hautala	Finland	Jon M. Hart	USA
Ad de Visser	Netherlands	Georgee Birnbaum	Israel
Jose Luiz Pimenta	Brazil	Georgee Aaron	Israel
Ton van den Brink	Netherlands	Steve Jenkins	Australia
Carlo Rocca	Italy	Tetsuji Takeuchi	Japan
Giuseppe Rossi	Italy	Takashi Saito	Japan
Eirik M. Bjelland	Norway	Marc Gillet	Belgium
Tor Mjoes	Norway	Nigel Pollard	UK
Tom Kristofersen	Norway	Marko Bizjak	Slovenia
Alain Floris	France	Stephan Voelker	Germany
Liisa Halonen	Finland	Petr Zak	Czech Republi
Axel Stockmar	Germany	Larry Leetzow	USA
Sermin Onaygil	Turkey	Hugh Barton	Great Britain
Carl K. Andersen	USA	Zhang Haikong	China
Hans J. Jacobsen	Denmark	Engin Cebeci	Turkey
Cyril Chain	France	Korobko Alexey	Russia
Ans van den Broek	Netherlands	Mika Saari	Finland
Jaroslav Kotek	Czech Republic	Paul Lutkevich	USA
Janos Makai	CIE CB	Elvo Calixto Burini	Brazil
Sandor Almasi	Hungary	Henri Juslen	Finland
Josef Horvath	Hungary	Paul Lutkevich	USA
Georgios Paissidis	Greece	Arve Augdal	Norway
Harry Kambezidis	Greece		