



COMMISSION INTERNATIONALE DE L'ECLAIRAGE  
INTERNATIONAL COMMISSION ON ILLUMINATION  
INTERNATIONALE BELEUCHTUNGSKOMMISSION

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Eindhoven, 25 February 2010

Dear CIE Division 4 colleagues,

Since the Budapest meeting in 2009, it was a hard time. Many of us encountered difficulties in their organisations and voluntary work like for CIE is then under pressure. I would like to encourage you –despite the circumstances- to continue stressing the importance of our work to come stronger out of these difficult times. One of the major events that will contribute to this is the CIE Conference in March in Vienna next month. This will be an excellent occasion to promote good quality lighting while using less energy. May be you can then also acquire support for your work from your superiors!

To keep you posted, attached is again a kind of NEWS letter about what happened in the second half of last year, after the Division and TC meetings.

There are several sections of which also the separate files will be posted on the website:

- DD4-0041: my interim report as DD; Division News;
- DD4-0040: action status of what we agreed in the Budapest meeting;
- DD4-0039: a roadmap of all TC's; please inform me about your plannings;
- DD4-0038: interim reports of TC's as far as relevant and available.

I hope this will support you in your CIE activities.

More detailed information will be posted as soon as available.

Wishing you much pleasure and success with your CIE activities, and hope to see you **all** in Vienna at the Conference,

*Ad de Visser*

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# Director Reports; Division 4 NEWS

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2010

*Interim report:*

CIE CONFERENCE VIENNA 14-17 MARCH 2010

- Our Division is definitely involved in this by speakers and poster presentations and a workshop as discussed during last Division 4 meeting. Per Ole Wanvik and Eirik Bjelland are the conveners.
- Though this conference is very important to all of us, I also notice that it does hamper normal Division activities; all of us have limited resources.

TC MEETINGS along the Conference:

- TC4-32: 15 March 2010 (14:00-16:30) at the CIE Central Bureau
- TC4-33: 16 March 2010 (14:00-16:30) at the CIE Central Bureau
- TC4-47: 16 March 2010 (9:00-17:00) at the CIE Central Bureau

NEXT DIVISION 4 MEETING

- Tapani Nurmi will be organising the meeting facilities for the Division 4 meeting in Vienna, September 2010, together with the CIE Central Bureau. You may see Tapani as the local host and contact person.
- A meeting of D4 officers is scheduled for 19 March 2010 to start preparing for the Division 4 meeting in September.

WEBSITE

- A new website has been launched. This can be visited from the general CIE website.  
URL: <http://www.cie.co.at/>
- The general CIE website and all Divisions have now the same structure, feel and look. However, a section for documents from Division 4 has not been foreseen in view of the upcoming collaboration tool.
- The old website in Finland is still accessible as well as the Division 4 documents via the old URL:  
<http://www.cie.co.at/div4/> Username: visser password: tapani
- As soon as the collaboration tool is in the air, documents will be transferred from the old website to the collaboration tool.
- A collaboration tool should have been installed already but our provider encountered some difficulties in staffing. The Central Bureau informed last month that that Collaboration Tools Suite for CIE is now completely finished and that the CB will make a planning for further implementation steps after the CIE Conference.

BOARD AND DD MEETINGS

- No news this time because the 2009 meetings took place just before the Division meeting and the 2010 meeting are scheduled just before the CIE Conference in March.

PROGRESS OF TC's

- A summary is attached to this news letter.
- Some TC's make good progress, others are in the pipeline at the Central Bureau, and some do not make progress as far as I can see. Please, remember that people are more interested in questions of the day than in subjects that were interesting years ago when the TC started.
- TC's in the final stages: TC4-19, TC4-24, TC4-26, TC4-43, TC4-44, and TC4-45. Some of these are encountering delay due to the overload that we created at the Central Bureau.
- TC's of which I have the impression of having lower speed: TC4-15, TC4-21, TC4-32, TC4-33, TC4-36, TC4-46, TC4-47 and TC4-48. I may be wrong and then I apologise, but it is my role to make these observations.
- TC4-33 and TC4-46 are looking for qualified members to contribute. Please, address the chairpersons of these TC's if you know proper candidates.

ACTIONS

- Please, have a look at the follow-up notes and actions that we promised during last Division 4 meeting, attached to this NEWS letter and attached to the Budapest meeting minutes. Actions that are late are highlighted in RED.

DD4-0040 - Follow-up notes

#	short term action # in the minutes	reference on agenda of D4	subject	action	by	deadline	result	
1		all	reports	to submit reports to D4 meeting as much as possible well in advance	all	4 weeks prior to next Division meeting		
2		Membership	no answer or failure report e-mail	to contact relations in India as one of the non-responding Division members	Ad de Visser	31-12-2009	Contacted Mr. Venkataramani, chair of NC India and vice president of CIE; 25 June 2009; no clear situation yet in India	
3		Collaboration tool	list of TC members and advisors	to update and submit to secretary, if necessary	all TCC's	31-07-2009	collaboration tool delayed	
4		Collaboration tool	numbering of documents	to provide guidelines on the numbering	VPP (via DD4)	31-07-2009	Request by DD4 to VPT sent 24 July 2009	
5		Collaboration tool	closed section D4	move documents from the closed section of the D4 website to the collaboration tool	D4 Web master	31-10-2009	collaboration tool delayed; old website sill accessible but not up-to-date	
6		Regular update of CIE publications and Standards	result of enquiry	inform VPT and VPP about the results: DD4-0032	DD4	31-07-2009	Done	
7		Regular update of CIE publications and Standards	organisation	to aks advise from VPT and VPP on how this should be organised; for instance by volunteers, maintenance teams (as in IEC), DE?	DD4	31-12-2009	Request by DD4 sent 24 July 2009	
8		Regular update of CIE publications and Standards	CIE S004 and CIE S006	to review or confirm	?			
9		Regular update of CIE publications and Standards	CIE 66	to review or confirm	Chain, Rossi?			
10		Regular update of CIE publications and Standards	CIE 93	to review or confirm	Per Ole Wanvik, Carl Anderson?			
11		Regular update of CIE publications and Standards	CIE 132	to review or confirm	Axel Stockmar	next D4 meeting		
12		Regular update of CIE publications and Standards	CIE 136	to review or confirm	?			
13		Regular update of CIE publications and Standards	publications no longer valid	to consider whether publications should be deleted from the list that are no longer valid; evaluate those indicated on DD4-0032	all	next D4 meeting		
14	2009-10	TC's	membership	to find active members to TC's in particular to TC4-33 and TC4-46; also to revise CIE publications; send letter to DM's	DD4	31-09-2009	done Feb 2010	

DD4-0040 - Follow-up notes

15		TC's	workplan TC	to update workplan incl indication final draft, TCC's if necessary			
16	2009-3	TC's	workshop TC4-47	send all participants the outcome of the workshop and not just membership of the TC	TCC Steve Jenkins	31-07-2009	
17		TC's	TC4-11	send photo's to DS	all attendees to TC4-11		
18		TC's	TC4-15	proposal for revised terms of reference	Sermin Onaygil	31-09-2009	
19		Reporters	to PIARC	DD4 with the help of Hans Huijben and Cyril Chain and CB write a letter to PIARC; concerning reflection properties of road surfaces and tunnel walls in view of energy conservation	DD4	31-10-2009	
20		Liaisons	conversion	redefine and report to CB and BA	DD4		inserted in the database and numbered
21		Liaisons	conversion	remove from D4 agenda	DS4		
22		Liaisons	conversion	remove from website and replace by reporters	webmaster		
23		Liaisons	abbreviations	to ask about abbreviation of the UK which is GB on the CEI website	DD4		CIE is using ISO country codes
24		New items	ToR TC4-45	to send for approval by the BA; inform TCC	DD4	31-07-2009	TCC is informed; submitted to BA for approval 24 June 2009
25		New items	ToR TC2/4 on Automotive photometrics	to send for approval by the BA; inform TCC	DD2 and DD4	31-07-2009	Was approved by BA on 25 May 2009 on initiative of DD2; TCC is informed
26	2009-9	New items	lighting for elderly/accessibility	to propose to the Board of Directors to nominate a reporter from each Division that should together form an interdivisional TC to elaborate the accessibility guidelines adapted to the application areas	DD4; Cyril Chain; Axel Stockmar	31-07-2009	DD4 sent an invitation to DD's, VPT, Sagawa, cc R4-41, CB on 28 June 2009.
27	2009-7	New items	ToR new TC	to draft ToR for road photometry	Cyril Chain and Giuseppe Rossi; support Axel Stockmar	31-12-2009	
28	2008-8	New items	ToR new TC	to define terms of reference for a new TC on "Design and renovation of Road Lighting installations in view of energy consumption and durability"	Hans Huijben and Per Ole Wanvik	31-10-2009	
29		New items	workshop "Energy"	to consider a workshop a la TC4-47 in conjunction with the 2010 CIE Conference in Vienna	Hans Huijben and Per Ole Wanvik	31-10-2009	This is organised by Per Ole Wanvik, Eirik Bjelland

DD4-0040 - Follow-up notes

30	2009-1	Next meeting	hosting 2010	to organise electronic vote under DM: March in Vienna(AT) or September in Vienna(AT) or Melbourne(AU) 2010; cc DD5 (D5 outcome 50%/50%)	DD4 and DS4	31-07-2009	Two polls because the first one was a close finish; the second one was clear; the outcome is Vienna
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DD4-0039 - roadmap

TC 4-	TC title	TC Chair	2008				2009				2010				2011			
			I	II	III	IV	I	II	III	IV	I	II	III	IV	I	II	III	IV
15	Roadlighting calculations	S. Onaygil								draft revision 140 available; test data results to be concluded and inserted; open source program								
19	Road Visibility in Fog	Michele Colomb				CB is finalising for ballot; previous and present TCC and technical manager are finalising final draft												
21	Interference by Light with Astronomical Observations	Marc Gillet							Meeting June 2009 all day									
24	Calculation and Measurement of Tunnel Lighting Quality Criteria	Marcel Justin								D&BA ballot until 23 September 2009; comments have been responded by TCC								
26	Systems for Measurement of Photometric Quantities of Road Lighting Installations	Giuseppe Rossi							sent to CB in May 2009 to start formatting and D&B ballot; waiting in the pipeline at CB									
32	Surface Colours for Traffic Signs	Juergen Ewald							meeting 28 May 2009		meeting 15 March 2010						"final draft should be ready"	
33	Discomfort Glare in Road Lighting	Ron Gibbons				research should be			start of work	meeting 1 June 2009	meeting 16 March 2010							
36	Visibility Design for Roadway Lighting	Richard Stark							pre-edit requires revision of final draft; editor made suggestions for improvement; TC vote rescheduled									
40	Requirements for Retroreflective Traffic Signs	Paul Carlson							Editorial review; meetings 28 May and 1 Oct		meeting Sept 2010							
43	Emergency Lighting in Tunnels	Marc Gillet	TC vote May 2007				draft 8 edited and TCC reviewed				D&B ballot were reviewed by TCC; to be continued by TCC, DD4, VPT, VPP							
44	Management and Maintenance of Road Lighting (Intelligent road lighting)	Pentti Hautala									D&B ballot is reviewed by TCC							
45	Performance assessment method for vehicle headlamps	Geoff Draper									D&B ballot is reviewed by TCC	start phase 2						
46	300 mm Roundel signals	Carl Andersen					draft 1.1		draft 1.2	draft 2.0								
47	Application of LED's in transport lighting and signalling	Steve Jenkins				draft 1			workshop								final draft ?	
48	White light in road lighting	Stephan Voelker (Haldun Demirdes)		report sub TCs			draft report					pre-final draft						

- research/ development phase
- drafting phase
- 1st edit running
- TC vote running
- TC votes being reviewed
- 2nd edit and CIE formatting running
- D4 & BA ballot running
- ballot results being reviewed
- publication being prepared

today

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# Interim reports TCs; Division 4 NEWS

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Currently **TC**      *Title*      *Year of*  
*active*           *establishment/abolishment*

*Chairman*

*Secretary*

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   **4 11**      **High level matters**      /

Hans Huijben (NL)

Tapani Nurmi (FI)

2010

*Target final draft*

*Interim report:*      Not yet certain but possibly on 5 September 2010 in Vienna, Austria.

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   **4 15**      **Roadlighting calculations**      1990 /

S. Onaygil (TR) (2nd part of task 2003-)

Gasparovski (SK) (2008-...)  
Engin Cebeci (TR) (2003-2007)

2010

*Target final draft*

*Interim report:*      An attempt was made to meet during the Lux Europa Conference I Istanbul. Unfortunately, most members had already made their reservations before this announcement. Ork would continue via internet. Next TC meeting is planned for September 2010 along with the Division 4 meeting in Vienna.  
As a result of the discussions in Budapest to deliver an open source calculation program, Ton van den Brink has provided a calculation program in C that he had available since some time. This could be at least a good start.

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   **4 19**      **Road Visibility in Fog**      1989 /

M. Colomb (FR), previously M. Dubuisson

2010

*Target final draft*

*Interim report:*      This project is being finalised by the Technical Manager of CIE, Peter Zwick, and by the current and previous chairman of the TC Michele Colomb and Jean-Sébastien Dubuisson. The last details , drawings and references always cost quite some time. A few items are left to be resolved.

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   **4 21**      **Interference by Light with Astronomical Observations**      1990 /

M. Gillet (BE) (200...

2010

*Target final draft*

*Interim report:*      Except from Andreas Walking becoming a member of this TC I have not received any news about intermediate progress of this TC.

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- 4 24**      **Calculation and Measurement of Tunnel Lighting Quality Criteria**      1990 /

Marcel Justin (BE) (2007-...)  
Axel Stockmar (DE) (a.i. chair( 2007)  
Peter Blaser (CH) (2004- 2007  
Riemenschneider (1990-2001)

2010

*Target final draft*

**Interim report:** The draft TR was send for a Division and Board ballot, closing date 23 September 2009. The outcome was BA has voted: 5 Yes (1 with comments). D4 has voted: 16 Yes (6 with comments). Beginning of February, the TCC Marcel Justin returned to the Central Bureau the response to the comments. After implementation and acceptance by the Vice Presidents Technical and Publications this Technical Report can be published.

- 4 26**      **Systems for Measurement of Photometric Quantities of Road Lighting Installations**      1992 /

Giuseppe Rossi (IT)

2010

*Target final draft*

**Interim report:** The TC voted positive and after implementation of comments, the draft was sent to the CB for CIE formatting and preparation of the Division and Board ballot. Unfortunately, Division 4 created an overload at the Technical Manager so this draft is waiting in the pipeline.

- 4 32**      **Surface Colours for Traffic Signs**      1994 /

J. Ewald (DE) (2008-...      G. Sauter (DE) (2008 - ..  
David Burns (US) (2007-2008);      J. Ewald (DE) (2007-2008)  
Pieter L. Walraven (NL)(.-2007)

2010

*Target final draft*

**Interim report:** After their last meeting on 28 May 2009, a new TC meeting is scheduled along the CIE conference in Vienna on 15 March 2010 (14:00-16:30) at the Central Bureau.

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- 4 33**      **Discomfort Glare in Road Lighting**      1994 /

Ron Gibbons (US), Stephan Voelker (DE)  
(vice) (2006-..)  
H.J. Schmidt-Clausen (DE)(2000-2006)  
Adrian (CA) (1994-2000)

2010

*Target final draft*

**Interim report:** After their last meeting in Budapest on 1 June 2009, next meeting is scheduled for 16 March 2010 (14:00-16:30) at the Central Bureau.

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- 4 36**      **Visibility Design for Roadway Lighting**      1994 /

Richard E. Stark (US)      Otto Letamendi (US)

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2010

*Target final draft*

**Interim report:**

For personal reasons a formal meeting in Budapest 2009 was cancelled. A very informal discussion was held with the Division Editor. The meeting was only attended by Ron Gibbons as the acting chair and 2 other people. The issues with the current document were reviewed with the editor. Ron Gibbons agreed to work with the chair to ensure that the document and the suggested changes from the editor were incorporated.  
The editor is willing to finalise this document and made a number of suggestions. But so far no new draft has been received.



4 40

**Requirements for Retroreflective Traffic Signs**

1998 /

Paul J. Carlson (US) (...  
Jay Rennilson (US) (1998-..)

Gernot Sauter (DE)

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2010

*Target final draft*

**Interim report:**

The TC met after the ISAL conference in Darmstadt, Germany on Oct 1st, 2009. The goal was to have a draft for preliminary editorial review prior to balloting ready immediately after the meeting on 22 January 2010 meeting in Ft. Lauderdale, Florida, US (ASTM) . Next meeting is in conjunction with CIE div 4 meeting in Sept 2010.



4 43

**Emergency Lighting in Tunnels**

2003 /

M. Gillet (BE)

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2010

*Target final draft*

**Interim report:**

Since the TC vote in May 2007 with some comments, it took time to prepare a final draft for Divisional and Board ballot. The latter ballot was closed at 8 Dec 2009. The result of the Divisional and Board ballot is: BA has voted: 1 Yes, 1 No; D4 has voted: 3 Yes, 3 No. The chairman of the TC has evaluated the comments and reasons for the negative vote and concluded that these are not sufficiently precise as they remain totally general. This doesn't give the possibility to modify the existing document in one way or another. To be continued by TCC, DD4, VPT and VPP how to progress.



4 44

**Management and Maintenance of Road Lighting  
(Intelligent road lighting)**

2005 /

P. Hautala (chairman) (FI)

E. Bjelland (secretary) (NO), T. Mjøs (NO)

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2010

*Target final draft*

**Interim report:**

The Division and Board ballot was closed at 24 July 2009 (was extended with one month). The results: BA has voted: 6 Yes (4 of them with comments). Div. 8 has voted: 14 Yes (9 of them with comments), 2 No (with comments), 1 Abstention (with comments). Comments are now under consideration by the TCC.  
The results will be promoted during the CIE Conference in March 2010.



4 45

**Performance assessment method for vehicle  
headlamps**

2005 /

Geoff Draper (UK) 2005-2009; Karsten Koeth  
2010-

Christian Ziehl (2009-...)

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2010

*Target final draft*

**Interim report:**

The Technical report was balloted by the Division and Board, which closed at 23-6-2009. The results: BA has voted: 3 Yes (1 with comments). D4 has voted: 16 Yes (1 with comments).  
The draft Standard has been gone to a D&B ballot too, but a little later; voting closed at 12-8-2009. The results: BA has voted: 3 Yes (2 with comments). D4 has voted: 9 Yes (0 with comments).  
Both documents have been evaluated by the TCC; a few small items left.  
With this result, the chairman Geoff Draper decided to withdraw. We thank him for these achievements !  
As his successor was confirmed by the Board and Division: Karsten Koeth from the University in Berlin. We wish him success and fun.  
The TC decided in their meeting on 28 September 2009 along the ISAL symposium, that next step is to investigate and set-up a scoring system based on the outcome of the first phase of the work. The Terms of reference for this have been approved, but nevertheless, it may be a difficult task as there are controversial and political aspects involved.  
To promote the results of the TC so far, the TC chairman gave introductions to the ISAL symposium, meetings of UNECE WP.29, of GRE and of GTB. Another one is scheduled for the CIE conference in March 2010.



**4 46**

**300 mm Roundel signals**

2005 /

Carl Andersen (US)

2010

*Target final draft*

**Interim report:**

The TC made an attempt to meet along the CIE conference in Vienna but the majority would not attending the conference nor the TC meeting. Next meeting is scheduled for September 2010. In the mean time response from the silent membership is awaited.



**4 47**

**Application of LED's in transport lighting and signalling**

2007 /

Steve Jenkins (AU)

2010

*Target final draft*

**Interim report:**

The TC has scheduled a meeting along the CIE conference in Vienna: 16 March 2010 (9:00-17:00) at the Central Bureau.



**4 48**

**White light in road lighting**

2007 /

Stephan Voelker (DE); Vice: Haldun Demirdes (TR)

2010

*Target final draft*

**Interim report:**

The TC scheduled a meeting along the CIE conference on 18 March 2010 (14:00-16:30) but most of the members would already be back home at that time. So the members try to find some time during the conference. A pre-final draft for comments has been circulated in February 2010.



**4 992**

**TC on Road Photometry (preliminary)**

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Co-chaired by Giuseppe Rossi (IT) and Cyril Chain (FR), with the distinction of  
- Parameters, database and lighting design (Cyril Chain)  
- Measurements in laboratory and on site and errors and tolerances (Giuseppe Rossi)

someone else or one of Rossi or Chain alternatively

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2010

Target final draft

*Interim report:*

- 4 993 **Design and renovation of Road Lighting installations  
in view of energy consumption and durability  
(Preliminary)** /

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2010

Target final draft

*Interim report:*