



DIVISION 3

NOTES OF THE MEETING HELD ON SEPTEMBER 4, 1997, IN DURBAN, SOUTH AFRICA.

Anthony Slater	BRE, Garston, UK	Director
Sueko Kanaya	Matsushita, Japan	Assistant Director
Dominique Dumortier	ENTPE, Lyon, France	Secretary
Clay Belcher	University of Kansas, USA	Editor
Robin Aldworth		CIE P.P
Odd Arnesen	Norwegian Technical University	Norway Rep.
David Carter	University of Liverpool, UK	Chair. TC 3.31
Geoff Cook	University of Reading, UK	UK Rep.
H.D. Einhorn	University of Cape Town, RSA	Chair. TC 3.01
Jan Ejhed	Göteborg University, Sweden	TC 3.31
Marc Fontoynt	ENTPE, Lyon, France	TCs 3.25 and 3.33
John Grundy	Duncansby Ltd, South Africa	RSA Rep.
Liisa Halonen	Univ. of Technology, Helsinki, Finland	TC 3.01
Robin Johannessen	Secretary Nat. Committee, Norway	Observer
Warren Julian		CIE V.P.P
Yasuko Koga	Kyushu University, Japan	TCs 3.15 and 3.25
Heinrich Kramer	Lichtedesign, Köln, Germany	Chair TC 3.20, 3.22
Hans Allan Löfberg	KTH-BMG, Gävle, Sweden	V.P.T
Masato Oki	Ashikaga University, Tokyo, Japan	TC 3.25
Jacques Roberge	Canada	Replace Nat. Rep.
Elizabeth Rozeva	Technikon, Natal, RSA	Observer
Ton Rutten	Univ. of Technology, the Netherlands	TC 3.25
Boris Sovic	Parliament of Slovenia	NK Rep.
Axel Stockmar	LCI, German	TC 3.31
Sadao Takahashi	Fukui Univ. of Technology, Japan	TC 3.28
Wout Van Bommel	Philips Netherlands	Observer

Next division 3 meeting should happen on May 8, in Ottawa, Canada. It will be followed by the first CIE symposium on lighting quality (May 9 and 10) and an international conference on daylighting: «Daylighting'98» (May 11 to 13, see enclosed information).

JUST TO REMIND YOU

1. If you have not done it yet, send the address update form. Let the secretary know about someone who is not receiving information from division 3.
2. Check the CIE lighting vocabulary and send comments or new terms to C. Belcher who is the division 3 reporter for the revision of the vocabulary.
3. Come up with suggested topics and speakers for the CIE symposium on lighting quality. Send this to W. Julian at warren@arch.usyd.edu.au
4. The call for papers for the CIE Warsaw conference will be out in November, the deadline for abstracts should be around March 1998.
5. Because of changes at the Building Research Establishment, A. Slater will not be able to stay as division director after the CIE Meeting in Warsaw. You are all invited to come up with names: division status requires at least two names. The new director should be chosen during the next meeting.
6. In January, division 3 will have its web pages. You are all invited to contribute to the content of the server by indicating what information you would like to see on it. We plan to put the minutes, the activity report, what about the division 3 roster ? Contact the secretary. As an example, you can have a look at the web server set up by TC 3.25 at <http://idmp.entpe.fr>.

The web server address will be: <http://ciediv3.entpe.fr> (starts January 98).

7. C. Belcher, the division 3 editor, is also the moderator of a discussion list on lighting. You can subscribe to this list by sending an e-mail at Lighting-Request@garnet.nist.gov. The only word contained in your e-mail should be: «subscribe». There is also, a site with various papers on lighting called: The Electronic Journal of Lighting. For more information, contact C. Belcher via e-mail at c-belcher@ukans.edu

NOTES OF THE MEETING

1. **Opening of the meeting.** Director Slater opens the meeting at 9:15 am and asks everyone around the table to present himself.
2. **Approval of the Agenda.** The agenda of the meeting is approved by all the participants.
3. **Apologies of absence.** Received from G. Debreczeni, R. Kittler, H. Nakamura, M. Van Ooyen, O. Shilovtseva, P. Tregenza.
4. **Minutes of the last meeting.** Anthony Slater apologizes for the fact that the minutes of the last meeting have been sent very late. Belinda Collins was not able to stay as division 3 secretary. He takes this opportunity to introduce D. Dumortier who has agreed to act as the new secretary of Division 3. He indicates that it is also a good

time to update the division 3 roster, D. Dumortier has issued an address update form which all division 3 members must fill and return to him. If you know someone who is not on the roster, please send his coordinates to the secretary. D. Dumortier announces that to improve communication between division 3 and the members, a web server will be created.

5. Division membership. There were no comments on the membership.

6. Director's report. A. Slater indicates that the CIE board has decided that aside from TCs which must produce a publication, «study groups» can now be created on a particular topic, without the need to produce a document. TCs can only produce either a «standard» or a «technical report». A. Slater reports on the 2 day workshop on the future of the CIE, which has resulted in an action plan. This plan has been summarized in the CIE news and described in a document which will be sent to National Committees.

7. Technical Committee reports. All TC chairmen and reporters should send their activity reports to the secretary at least two weeks before the meeting. Information on each TC can also be found in the activity report which from now on will be posted on the division 3 web server.

TC 3.01: Glare for small and large sources.

H. Einhorn reports that a meeting was held in Durban on September 3. 7 members participated. A new approximate rule for glare from non-uniform indirect lighting from up-lighters, proposed by the chairman, was accepted. A report on the glare effect of small and large sources should be available for the next division 3 meeting. A. Slater suggests to include this report in the CIE collections.

TC 3.11: Daylighting calculation methods.

There has been no report from the chairman M. Navvab.

TC 3.12: Daylight and solar radiation data for building performance.

The new chairman S. Hayman has apologized for not being able to submit his report on time. He has indicated that he would be able to resume work on the TC within a month. R. Kittler has sent a note stating that TC 3.12 urgently needs a group of competent members and team activities to utilize IDMP results and apply TC 3.15 and 3.25 advances as well as TC 3.32 trials to calculate and standardize outdoor conditions. R. Kittler suggests that his colleague S. Darula become a member of 3.12.

TC 3.15: Sky luminance models.

The chairman K. Matsuura was not at the meeting. He has indicated that an informal TC meeting will be held in Kyoto, on October 9. R. Kittler will present the work done in collaboration with R. Perez on new sky luminance models.

TC 3.16: Psychological aspects of lighting.

Since the meeting in Lyon, little progress has been made. B. Collins had asked D. Tiller to work on the report and try to figure out some way to finalize the report so that division 3 can vote on it. C. Belcher was asked to contact B. Collins and edit the document. A. Slater indicates that the work should now be done quickly, otherwise it may become outdated, in which case, it will not be worth publishing.

TC 3.19: Scale model photometry for interior lighting.

There has been no report from the chairman M. Navvab.

TC 3.20: Lighting and architecture.

The chairman H. Kramer, indicates that he has now received the contribution of all members. He is now in the position of editing the book which may take around 8 months. H. Kramer suggests that CIE focus more on architects, since they take most decisions on light. The book is trying to bridge the existing gap between lighting engineers and architects. A. Slater agrees that this is an important work, he is eagerly waiting for the first draft. A member of division 5 indicates that a similar situation happens in the field of exterior lighting, and thinks that a chapter could focus on exterior lighting. This book with about 180 color pictures is quite different from regular CIE publications, so A. Slater suggests to H. Kramer to contact the vice-president of publication.

TC 3.21: CIE/ISO Interior lighting standards.

A third draft has been produced by the TC and sent to ISO. L. Bedocs, the chairman, is now waiting for comments which are due October 1997. If this draft is approved, it will be finalized, otherwise a new TC meeting will be held.

TC 3.22: Museum lighting and protection against radiation damage.

The chairman E. Ne'eman has indicated that one meeting was held on August 17, in Seattle, following the IESNA conference, and that another will be held in Ottawa, on September 25 and 26. E. Ne'eman intends to finalize the full draft of the guide on «Museum lighting and protection against radiation damage» by the end of 1997. Then it will be formally submitted to the central bureau. M. Fontoynt asks H. Kramer (member of TC 3.22) whether there is a link of the TC with ICOM (International Council of Museum), which holds a meeting every year. He suggests that the TC should take part to ICOM meetings. A. Slater asks H. Kramer to feedback the comments at the next meeting of the TC.

TC 3.24: Energy aspects of lighting.

There has been no report from the chairman: L. Zonneveldt. A. Slater suggests to the secretary to write to the chairman and ask whether the TC is still alive or not.

TC 3.25: Coordination and development of the International Daylight Measurement Programme and its data.

A meeting of TC 3.25 was held in Durban. Four new IDMP stations have been created in India. The relative calibration of the IDMP stations is near completion. A web server dedicated to the IDMP has been developed by D. Dumortier, one of the two secretaries. Its address is <http://idmp.entpe.fr>. D. Dumortier presents its content: a complete description of 46 of the 52 IDMP stations with pictures and maps, a description of the history of the IDMP, explanations on how to set up an IDMP station, a presentation of TC 3.25 activities including the minutes of the last meetings and the complete list of members with coordinates and a «library» where members can present their work: papers, software developed for the IDMP.

A. Slater congratulates the TC for its excellent work. He asks H.A. Löfberg whether he thinks that it might be a problem for CIE, if members of the IDMP would start selling the data. H.A. Löfberg does not see any problem.

TC 3.26: Development of a protocol for post occupancy evaluation of lighting.

There has been no report from the chairman: D. Tiller. The secretary indicates that he will send a note to him.

TC 3.28: Standard on calculation of utilization factors.

There has been no report from the chairman: R.I. Bell. This TC may be closed at the next meeting.

TC 3.30: Hollow light guides.

L. Whitehead is the new TC chairman replacing Prof. Aizenberg. A. Slater indicates that he will check if this change of chairpersonship has received agreement from the board. A TC meeting was held in Trondheim, Norway on September 10 and 11, 1996. A new meeting will be held in Nagoya, on October 16 and 17, 1997, just after the Lux Pacifica conference. The TC plans to finalize the official publication on the hollow light guides and discuss about recommended photometric measurement procedure for these guides.

TC 3.31: Electric lighting for real spaces.

G. Cook, the TC secretary mentions that a meeting was held in Durban on September 3. 9 members participated. The bibliographic database of references in the subject area is complete and contains 65 items. The major area of activity has been the drafting of an interim report setting out the state of knowledge in the subject area. The draft report has been circulated for comment and modification to TC members. There is still some work to be done on the assessment of the depreciation of the reflective materials.

A. Slater congratulates the TC for its work. Someone suggests that the name of the TC might need to be changed because there is no reason to look only at the effect on electric lighting, daylighting is of course affected.

TC 3.32: Validation of algorithms for daylighting outdoors.

There has been no report from the TC chairman M. Navvab.

TC 3.33: Test cases for assessment of accuracy of lighting computer software.

This TC was created at the Lyon meeting in October 1996. The chairman is R. Mitanchey from ENTPE. M. Fontoynt who is also from ENTPE presents the objective of the TC, which is to create test cases which can be used as benchmarks against which software developers could assess their products. The TC will focus on electric lighting first. M. Fontoynt indicates that this TC is related to other ongoing activities within the IEA Task 21: «Daylight in Building», noticeably Task 21C which is the software validation subtask. Software that will be tested will include Lightwave, Lightscape, Artlandis. Test cases and results will be put on a server and made available to anyone. The TC is currently gathering members and its first meeting will be held in Ottawa, in May.

8. Reporters reports.

R 3-02: Stage and studio lighting.

Showlight'97 was held in Ghent, Belgium, from April 28 to 30, 1997. It was a great success. Mr Ackerman will be reappointed as reporter of the UK committee and is beginning to plan Showlight 2001. He is inviting offers of venues, preferably in Western Europe.

R 3-06: Accidents and lighting.

The report entitled «Lighting and accidents cases at the workplace», written by Prof. H. Ruschenschmidt of Germany is completed. The conclusions of the report are that most accidents do happen in areas with low illumination levels. There is a need for a contact with Division 5 where similar work may have been done.

R 3-10: Maintenance of indoor lighting.

The reporter L. Bedocs has not sent any progress report.

R 3-13: Lighting vocabulary.

C. Belcher reports on the activities of the division 7 committee in charge of revising the lighting vocabulary chaired by C. Hermann. The current status is that no work has been done in the past year. At the 1996 division 3 meeting, in Lyon, C. Belcher passed a list of terms that included words he felt were poorly defined and words whose definitions he did not understand or questioned. He asked all division 3 members to provide input to that list, unfortunately he did not receive any answer.

H.A Löfberg is surprised that there was no new term proposed. A. Slater has sent new terms from CEN committee. CEN has tried to make some of the terms more understandable. It is decided during the meeting that C. Belcher should send again his questions and comments, but this time in a more formal version indicating for each word the old definition and his suggested new definition. If there are no comments and objections, that document will then be forwarded to Ms Hermann for action.

R 3-15: Lighting standards.

S. Simos the reporter indicates that he has received about 2/3 of the contributions that he expected.

9. Liaisons. D. Dumortier reports on the Satelight European research programme, the objective of which is to create a database of solar radiation and daylight for Europe, on the basis of the Meteosat satellite images. This server will be available at the end of 1998.

10. Review of division 3 publications. H.A Löfberg tells that CEN is working on standard but has difficulty to agree with CIE standards. Even though, CEN usually uses CIE publications as references. There is a lot of work going on through CEN in Europe. A. Slater indicates that according to him, guides for commercial and industrial buildings are still needed. M. Fontoynt asks how many guides have been sold in the past. W. Julian says that on average, the number of publications sold by CIE per year is 25. He says that marketing is the problem, in most national committees, there

is no activity. M. Fontoynt and J. Roberge suggest that CIE should focus on helping developing countries in finding unexpensive solutions for good lighting. Participants to the meeting indicate which standards are in use in their countries. They do not really feel the need for new guides. However, it seems that a TC could be created to develop guides specifically for developing countries. This could be done in collaboration with the South African National Commission of Illumination for instance.

11. Future Work. A. Slater indicates that B. Weiss has proposed a division 5 committee on emergency lighting, however it seems that this is more a preoccupation of division 3. He suggests to appoint B. Weiss to the next meeting.

At the Lyon meeting, C. Jones had proposed a term of reference for a TC on lighting quality. She has indicated that a «light right consortium» will happen in San Francisco, in November. A. Slater underlines that this seems to be an area of importance to the division.

W. Julian indicates that CIE will organize a symposium on lighting quality around May 9 and 10, 1998, in Ottawa. The idea of the symposium is to review the indices on lighting quality, investigate the need for uniformity...W. Julian asks all members of division 3 to come up with suggested topics and speakers for the symposium. H. Kramer says that 3 chapters of his TC work focus on lighting quality. Mr Kramer agrees to make a presentation and also suggests to contact P. Dehoff.

Going back on Carol Jones, A. Slater suggests to have for now a study group on lighting quality. C. Jones will have to liase with the symposium on lighting quality and a TC could be created after that.

12. Next meeting. Two proposals are made for the location of the next CIE meeting: in August, in Texas, USA, in parallel with the IESNA meeting (proposal by C. Belcher) and in May, in Ottawa, in parallel with a CIE symposium on lighting quality and a daylighting conference «daylighting'98». After discussion the participants chose to meet in Ottawa.

Then A. Slater thanks all the participants, in particular Mr. Grundy, Mr Henderson from ICOM, for having organized this meeting and other division 3 TC meetings. He adjourned the meeting.

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