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DIVISION 6
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Minutes of the CIE Division 6 Meeting Lisys Lighting Systems plc, Budapest, Hungary 30 May 2009

In Attendance:

Rolf Bergman	USA
Howard Cooper	France
Joel Cuello	USA
Takayoshi Fuchida	Japan (proxy NC rep)
Laszlo Gloetzen	Switzerland
Jan Grzonkowski	Poland (NC rep)
Amr Haffar	Austria (CB)
Werner Horak	Germany
Amanda Hu	China
Charta Kleufier Guude	Slovenia
Tongsheng Mou	China
John O'Hagan	UK (NC rep; DE)
Uli Osterwalder	Switzerland
Jianguan Pan	China
Lucia Ronchi	Italy (NC rep)
Györgyi Rontó	Hungary (NC rep)
David Sliney	USA (proxy NC rep)

Andrew Smedley	UK (DS)
Irina Terenetskaya	Ukraine
Jennifer Veitch	Canada (proxy NC rep)
Ann Webb	UK (DD)
Ming Yang	China (NC rep)
Peter Zwick	Austria (CB)

Apologies were received by a number of others and these were noted by the Division Secretary.

Welcome by Director. Ann Webb welcomed the attendees at 9.30 am and thanked Lisys Lighting Systems as hosts and Gabriella Borsodi for her hard work in arranging the meeting.

Approval of Agenda. The group approved the agenda.

Approval of Minutes of Division Meeting, Burlingame, 2008. Webb noted that the minutes had been distributed by email and were also available on the website, and asked for comments from the group. No comments were received and the minutes were approved.

Progress Report from Director. Webb discussed a number of items arising from the BA meeting held on 24 to 26 May 2009 in Budapest.

1. The efforts to modernise and speed up the processes within CIE are continuing, especially regarding TC output. TCs are to adopt new guidelines which apply to all new TCs and are to be implemented as far as possible for existing TCs. These are as follows:

- TC membership should be reviewed annually and the updated list submitted together with the TC's annual update to the Division. The TCC should keep an up-to-date list of past and current members and their contributions. True contributors to the report will be authors, others may be acknowledged. The TCC should submit the annual report and list of active members to DD and DS including an updated timetable of TC work, with target dates for first and final drafts, comments, balloting and final editing.
- Should a TC member be inactive, the TCC shall write to the person (with a copy to the DD and the Division member and NC of the country from which the TC member comes). If necessary a TCC, on the authority of the DD, may revoke the appointment of an inactive member. If the

member was appointed by the NC, the NC must be informed.

- Anyone wishing to join a TC must write to the TCC, copied to Division Director (DD) and Division Secretary (DS) giving a clear commitment to actively participate in the work of the TC (if accepted as a TC Member) and stating:
(a) what expertise they have in the technical area covered by the Terms of Reference of the TC, including a list of any relevant publications, and
(b) which specific aspects of the work of the TC they feel best able to contribute to.
- If the TCC feels that the new applicant will be a valuable addition to the TC membership, they should write a formal letter of appointment, copied to the DD and DS, setting out a specific work plan and timetable for the work of the TC and highlighting where the new TC Member is expected to contribute.
- TCs that are still inactive by 2011 will be closed. If a subject is really important to a Division then a new TC with active membership can be opened on the same subject at a future date.

2. Flow charts of a new process for approval of TC reports and standards have been agreed on and will be placed on the Division website.

–Action: DS/DD

3. It was noted that current standards should be reviewed every 5 years. TC reports should also be regularly reviewed. If anyone knows of any that require updating or that are obsolete and hence should be removed from the current publications list, they should let either the Division Director or Secretary know. Sliney commented that he had heard from Seidl that in the first instance standards should be reviewed after a period of 3 years, and then subsequently every 5 years. Veitch enquired what the process was to remove obsolete reports; it is understood to be up to the Division. Bergman noted that there is no real mechanism to review standards and reports as TCs would have to be reopened to review the subject, having been dissolved when the publication was completed. Webb will discuss this point with Teresa Goodman.

–Action:DD

4. The CIE Lighting Quality & Energy Efficiency conference will be held in Vienna from 14 to 17 March 2010. It will be a showcase for CIE and is aimed at stakeholders, industry, policy makers, and

scientists. As such, Webb pointed out that vision (D1) and photobiology (D6) should lead the way, as they are our primary reasons for using lighting and controlling its quality. Therefore papers and attendance from Division 6 members are actively encouraged.

5. A book on LED lighting is to be produced by CIE. This will be similar to the Colorimetry book, and will lay out the state of the art in each Division's subject area. It is to be produced quickly (printed and available in 2011, if not by 2010), with Schanda editing the whole publication. Suggestions and volunteers for a dedicated author to write the D6 chapter are to be sent to the Division Director.

6. Finally Webb asked for any ideas on cross divisional matters, upcoming important issues in light or anything else that people feel CIE should do. These should be sent to the Board, via Webb or any Board member.

Secretary's Report. Smedley noted that there were a number of administrative items to be dealt with.

The Division contacts list is now fairly up to date, although a few people remain outstanding. An email will be circulated to the Division shortly to try and address this. This should assist with tracing copies of TC documents in the future and speeding up and concluding the work of currently inactive TCs.

The Division's TC membership lists, on the other hand, are often many years out of date. Despite a recent request both from Central Bureau and DS, information has only been received from a small number of TCs. All TC chairs who have not yet done so were urged to review their membership lists and send them to the Division Secretary and Central Bureau. Smedley reiterated that these lists should be reviewed annually in any event and submitted along with the TC's annual update and work plan.

–Action:TCCs

The Division has also had some updates of National Committee members during the past year and the only country without a D6 representative is New Zealand. All National Committees were requested to check the D6 website and inform the Secretary if their details require updating.

–Action:NCs

Central Bureau have also been developing some online tools to assist with Division and TC work. These are Webex (a meeting tool) and the

Collaboration tool enabling TC members to edit an online document simultaneously. TC6-59 has been testing the latter for D6 and it understood to be successful as the tool will shortly be rolled out to all TCs. Webex will be used by Division 8 to host their annual meeting. Sliney expressed concern that the online tools struggled with large files, especially on slow connections and Webb noted that both tools require a commitment from all participants to work to a sufficient standard. Sliney suggested that before attempting a full meeting via Webex people should test the system. DD concurred.

Haffar and Zwick were available to give brief introductions to both these tools during a break in proceedings and would also be in Budapest the following week (1 to 3 June 2009) for further training sessions. Those not able to attend these sessions who wished to learn more should contact Central Bureau or the Division Secretary for more information.

Smedley noted that he still has control over the D6 website and aims to update this on a timescale of a few days, as he is informed of progress and news from the Division. Central Bureau have been developing a new website which aims to homogenise CB and the Divisions in terms of style. Divisions will still retain control over content when the switch-over occurs.

Editor's Report. O'Hagan reported that the 6-24 report on UV-A Protection and Sunscreens had passed the BA and Division ballot. The TC6-59 report on UVC Photocarcinogenesis Risks from Germicidal Lamps has also been edited and O'Hagan has sent comments back to Vincent for consideration. It is expected this will soon go out to ballot.

Progress Reports from Technical Committee Chairs. These updates were compiled by the Division officers if the chairs were not present. TCs that have not submitted a report, will be considered inactive and will be closed in 2011 unless definite progress is made.

6-08 Guidelines for Obtaining Action Spectra. Sliney commented that this report was very close to being completed. DS/DD to chase at monthly intervals until a report is produced.

–Action: DS/Sliney

6-15 Computerized Approach to Reflectoin, Transmisson and Absorption Characteristics of

the Human Eye. Sliney stated that he had reviewed this document and it was substantial at 20 to 30 pages in length. It is in template form and again close to completion. TCC Lund is not sure of TC members. DS to contact previous Secretary Wengraitis to try and track down a members list.

–Action: DS

6-20 Phototoxicity in Domestic and Industrial Environments. TCC Gibbs will be chairing a session on Drug Phototoxicity at the Int Congress of Photobiology in Dusseldorf next month and hopes to recruit for TC prior to a meeting to be held in conjunction with the Brit Photoderm Group. DD will speak to Gibbs regarding any further progress.

–Action: DD

6-21 Low Level UV-A Cataract. Sliney stated that he understood the effort to be complete and had been waiting for DE to edit. O'Hagan commented that he had not received confirmation that TC members were happy with latest version. Sliney will send report to O'Hagan.

–Action: DE/Sliney

6-25 Spectral Weighting of Solar Ultraviolet Radiation. Wengraitis had provided an update including the CIE previtamin D3 action spectrum. Webb to check contents.

–Action: DD

6-28 Standardization of Sunscreen Testing. Now 6-24 report is complete Osterwalder to work on this effort. However the final document will be a report and not a standard. Osterwalder to be official chair as Cesarini has now retired – agreed by Division. Osterwalder will provide an updated title to Webb so that both chair and title can be passed for Board for approval simultaneously.

–Action: Osterwalder/DD

Osterwalder then gave a short presentation on the subject. This was followed by a presentation by Terenetskaya to call attention to the necessity to remeasure the in vivo action spectrum of vitamin D synthesis: "Mismatch between the in vivo and in vitro vitamin D synthesis action spectra: cause-and-effect relation".

6-33 Photoimmunological Effects Mediated Through the Skin. De Fabo wanted to update this document. DD to contact de Fabo for copy of document and move forward.

–Action DD

6-36 UV Protective Materials Used in Shading.

DS reported he had not heard any progress from this TC. To be finished or to be closed under 2011 clause.

6-37 Light and Retinal Disease. Sliney stated that this report was another that was almost completed. DS to chase monthly until concluded.

–Action: DS/Sliney

6-39 UV Radiation in Lighted Environments. DD to contact TCC Kohmoto re: closure / 2011 clause.

–Action: DD

6-42 Lighting Aspects for Plant Growth in Controlled Environments. Chaired by Navvab, has been starting from scratch. Has been collecting TC members and undertaking literature search. Some measurements being undertaken. Plans to circulate this information to the interested groups in this subject area by the end of this summer and hope for some feedback by early fall. TCC requests copies of any earlier versions of documents and notes for TC.

–Action: DS

6-44 Illuminators for Treatment of Infant Hyperbilirubinemia. Currently vacant. Webb has not received any documents on this TC. Suggested as closure candidate. If important then could open new TC when necessary. Ronchi has contact details for Pratesi, will get in touch with him and pass details to Webb. DD commented that this was the last attempt for this TCC. If no success by March 2010, will be closed. Sliney has copy of Pratesi report, will pass to DE/DS. If simply a matter of language then can be dealt with in editing.

–Action: DD/Sliney

6-45 Optical Radiation Hazard Measurements in the Workplace. CEN produced a report on this subject. CIE agreed that the science was solid, but that the report needed language editing. Only Parts 1 and 2 would be required. DD will speak to Sliney on this matter and will contact Seikmann, Angelo and Schulmeister to reach agreement.

–Action: DD/Sliney

6-48 Typical Minimal Erythema Doses. Sharon Miller has been accepted as co-chair and Tania Cestani as additional member. Webb reports that effort is progressing and that most of a draft exists.

6-50 Photodegradation of Pharmaceuticals. Tønnesen is new chair. Has collected new members and prepared a draft manuscript on the subject.

Preliminary experimental studies begun to assist the development of guidelines. DS expresses concern that some US/industry bias, but that it might be inevitable given subject matter. Webb comments that as a report rather a standard the guidelines are less strict, therefore an additional member is probably not necessary.

6-53 Personal Dosimetry for UV Radiation.

Vacant. Elizabeth Thieden was contacted as a possible new chair by Webb. DS reports that Thieden is unable to take up the position as not supported by her department. If no chair is found, to be closed.

6-55 Photobiological Safety for LEDs. Progressing well. Will meet after D6 meeting has finished at same venue.

6-57 Standardization of Terms and Action Spectra for Blue Light and Retinal Thermal. DD to contact TCC Kohmoto regarding progress or closure.

–Action: DD

6-58 A Recommendation on Lower Limits for UV Exposure. Webb reports that this TC should soon be completed.

6-60 Spectral Weighting of Ultraviolet Radiation from Solar Surrogate Sources. Difficulty is from manufacturers who were unwilling to supply “typical” lamp spectra, and hence whether this TC can proceed. DD to chase TCC Forbes regarding progress.

–Action: DD

6-61 Measurement of Radiation Using the Phytometric System for Plant Applications. TC member Cuello is in attendance. He reports that Part 1 (theoretical work) is complete and the TC has moved on to Part 2 concerned with developing a prototype and making measurements. Hopes to complete by 2010. DS asks whether Levin is unsure about the new concept and is still part of TC. Cuello reports that he is still involved. Both sides therefore represented.

6-62 Action Spectra and Dosimetric Quantities for Circadian and Related Neurobiological Effects. Sliney comments that Lund’s report will assist with the completion of 6-62. There is a symposium in Philadelphia during July 2009 on this subject. TCC Cooper hopes to have a preliminary report complete by 2010.

The Division also has two joint TC's (1-67 and one with D8), but no progress has been heard from either.

One of the TC's proposed last year has now been approved by the Board (6-64 Optical Safety of Infrared Eye Trackers Applied for Extended-Durations) and is making good progress. The other two proposed last year require further clarifying of their titles and terms of reference. DD to chase Sliney on this point.

–Action: DD/Sliney

Progress Reports from Reporters

A survey of action spectra in the scientific literature: 19XX – 200X. Webb stated that reporter Schmalweisser was working on a COST action final report, but once it was finished would put it into CIE format. DD to contact Schmalweisser.

–Action: DD

UV absorbing clothing additives and changes with laundering. Reporter Osterwalder commented that this reportership should be closed. DS to inform CB.

–Action: DS

Definition of UV wavebands. Sliney noted that industry had hoped to change the definition of UV wavebands. It was hoped that the outcome of this report would agree with the status quo. DD to contact reporter Sasaki to get draft.

–Action: DD

Proposals for new TCs and Reporterships

In addition to finalising the details of those TCs proposed in 2008, Webb commented that Schanda had approached her about unjustified claims of medical benefit of light sources. It was noted that while some claims have justification, others do not. A reportership was considered with a public facing aim to state which medical claims have a scientific rationale and which have not yet been scientifically proven. Sliney was concerned that this could be controversial as many light sources could provide stimulation on a cellular level, but this does not necessarily lead to an overall benefit. It would thus be a complex problem. Veitch noted that it might be too much for a single committee, but that a reporter could collate the information. Suggestions and input to be sent to DD and DS. No reportership to be formed at present.

Sliney noted that Terenetskaya's presentation would make a good subject for a reportership. Terenetskaya will develop this further with a title of "The issues of vitamin D kinetics" and to publish a review in PCPB; she would welcome supportive letters from CIE / FP7 to assist with this work.

Division Officers

Webb stated that she would have to stand down as DD6 in 2011 (now being President-Elect to CIE). The Division would therefore need to decide on a new director by the next D6 meeting so that Board Approval can be sought in advance of the Quadrennial meeting. O'Hagan is prepared to take up the position of DD6. Webb asked for any other nominations to be sent to her.

Liaisons with ICNIRP, CEN, WHO, IEC and ISO

Sliney is D6 liaison for IEC TC76, but no longer holds the position for ICNIRP. Osterwalder is involved with ISO TC217 and WG7 and could act as liaison, but at this stage would only be unofficially. DD to enquire how to get this made an official position.

–Action: DD

Horak comments there is already a standard on the optical output of machinery (EN12198), and CEN TC169 is working on classifying non-electrical sources. He receives correspondence from the latter. These are not in competition with CIE, but there should be harmonisation with regard to CIE S009. DD to contact Seikmann concerning this matter.

–Action: DD

Future Meetings.

D8 is testing out Webex for their meeting this year, and depending on the outcome D6 may also attempt an online meeting in 2010. Sliney notes that the ASP meeting is to be held in Rhode Island, USA next year and suggests it may provide a good opportunity for a D6 meeting. Webex could then be used to enable more people to participate, but would require a good audio-visual set-up to be tested beforehand.

The next quadrennial meeting will be held at Sun City in South Africa during 2011.

AOB

The ILV is in final vote, with Webb and Sliney having voting rights from D6. A meeting of TC6-55 was to follow the D6 meeting at the same venue.

Webb thanked Lysis Lighting as hosts, and the attendees, and the meeting was concluded.