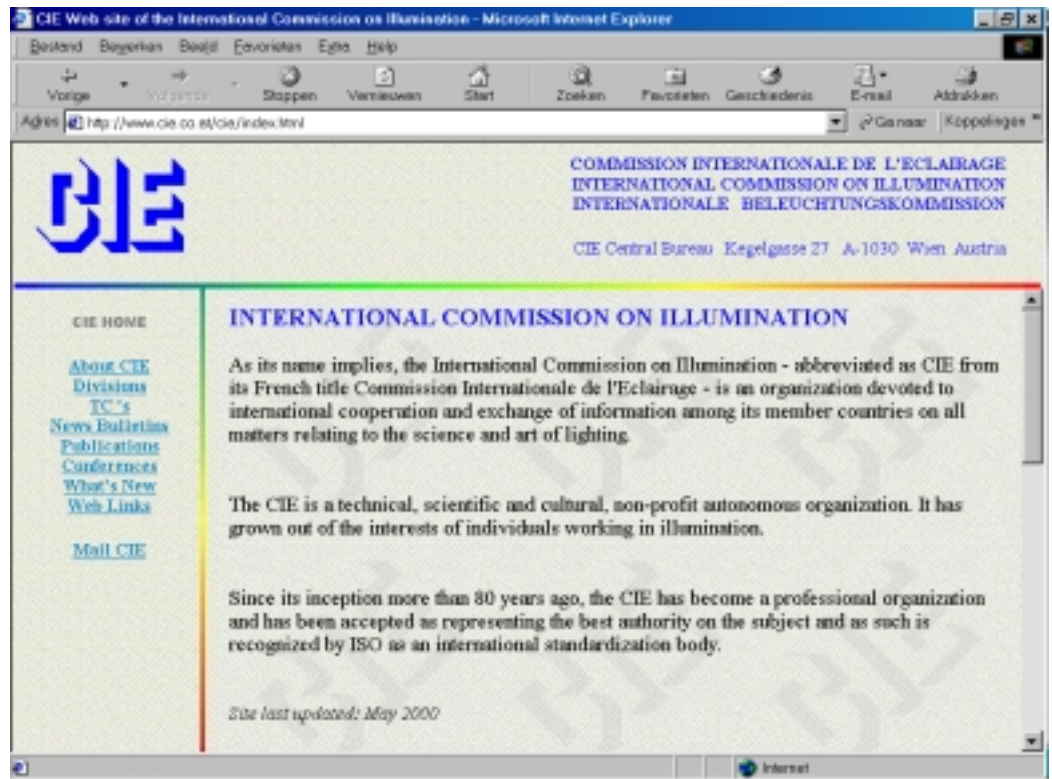


Comité Luminotécnico
Argentino * CIE **Australia** Inc. *
 Comité National **Belge** de
 l'Éclairage CIE - **Brazil**
Bulgarian National Committee
 on Illumination **Canadian**
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 – CIE **Croatian** National
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 National Committee of the CIE *
 National Illuminating Committee of
Denmark **Deutsches**
 Nationales Komitee der CIE
 Comité **Español** de
 Iluminación National
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Finland Comité National
Français de l'Éclairage * CIE –
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 komitee der CIE **Pakistan**
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Polski Komitet Oswietleniowy
 Comitatul National **Roman**
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 National Committee of
 the CIE **Slovak** National
 Committee of the CIE
Slovenski nacionalni komite
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 Nationalkommittén av CIE
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 komitee der CIE **Thai**
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 Komitesi **United States**
 National Committee of
 the CIE * CIE National
 Committee of **Yugoslavia**

Renewed CIE Web Site
<http://www.cie.co.at/cie>



Very early in the “Internet era” CIE, as one of the few international organisations had already its own web site thanks to the design of a CIE web site by Prof. Ikeda of Japan. In the meantime this site has become popular all around the world with a daily number of about 60 to 70 visitors!

With Internet becoming an accepted and “normal” way of communication and with the development of new possibilities of creating web sites, also giving new lay-out and navigating possibilities, we produced a complete new modern CIE web site which has gone “public” at the beginning of May (at the same address as the former CIE site).

IN THIS ISSUE

Renewed CIE Web Site – New National Committee – News from the Divisions - New Publications in the Field of Light and Lighting – Arnold-Rikli-Award 2001 - Future Meetings – Liaison – In Memoriam - From the Lighting Journals – For your Diary

Emphasis is on maximum information with a minimum of navigation effort at high transfer speed. The latter means that we only have incorporated graphics to a very low extent and only where it is functional. Information is given that is of importance for people not yet familiar with CIE as well as for people already active as expert volunteer in the Divisions or Technical Committees. The first group also incorporates potential new members of CIE like Associate National Committees and Supportive members.

A few highlights of new additional information:

- In the abstracts of all CIE Publications the names of the persons who actively participated in the preparation of the publication are mentioned.
- All existing Technical Committees are listed together with their terms of reference and the name of the Chairperson. The new Study Groups (that use Internet via automated E-mail Discussion Groups) are also listed.
- Working procedures important for all volunteers working in CIE, as laid down in the Code of Procedures for Divisions and Technical Committees and for drafting CIE Standards, are downloadable directly from the site. Of course the same holds for the CIE Statutes (version 1999).
- The latest CIE NEWS edition is always directly available for downloading, as well as back issues of the last 2 years.
- All coming CIE Conferences and Symposia are detailed on the Web, as well as abstracts of the Proceedings of the past events. Of course data of past Sessions and of the coming Session are also given.
- Direct links are given to the web sites of all Divisions for further details on the activities and progress of the Divisions and their Technical Committees.

The Home Page (see figure on the title page of this NEWS issue) has on the left-hand side a navigation bar which leads you by a simple click of the mouse towards the following subjects:

- **“About CIE”**: With further information on subjects like: CIE Objectives, How CIE Is Organised, and How CIE Works. The names (and E-mail addresses) of the Board members, representatives of the National Committees (again with E-mail address and where relevant web address) and the staff of the Central Bureau are given. The different member categories are explained. The working procedures are here available for downloading,

and also the agreements for cooperation between CIE, ISO, IEC and CEN are given.

- **“Divisions”**: Gives a short description of the CIE Divisions with direct links to the Division’s own web site.
- **“TC’s”**: All TC’s are listed with their terms of reference and names of chairpersons. The Internet Discussion Groups are explained in some detail.
- **“News Bulletins”**: The most recent CIE NEWS edition and the back issues are here downloadable (in PDF format).
- **“Publications”**: A list of ALL publications is given with direct links to abstracts that also give the names of those who participated in the preparation of it. Publications available on CD-ROM or diskette are also listed. The ways of ordering publications are explained with, where relevant, direct links to the sellers in the countries.
- **“Conferences”**: Here information of (past) and coming CIE events is given. Abstracts of past Sessions, Conferences and Expert Symposia are also available.
- **“What’s New”**: This is a summary of the latest additions and changes (with history) on CIE’s web site.
- **“Web Links”**: Direct links to important organisations and institutions in the context of the working area of CIE. Requests for further links to this type of organisations and institutions are welcome.
- **“Mail CIE”**: By clicking here you can directly send your E-mail questions, remarks and comments to the CIE Central Bureau in Vienna.

To facilitate navigation you will always find on each navigation bar on the left-hand side of the screen a button with **“CIE Home”**. Clicking this button brings you directly back to the first, the home page of the site described above. So you can’t get lost !

We hope that especially the many volunteers in CIE will use this renewed site extensively to their and to CIE’s benefit.

Comments about the site will of course be much appreciated.

Finally: everybody involved in a web site dealing with light, lighting or image technology, please make a link to our CIE web site.

Eindhoven, May 2000
Wout van Bommel
Vice President

New National Committee

We are pleased to inform you that a new National Committee has joined the CIE: Yugoslavia has been unanimously accepted in a postal ballot among CIE National Committees. The address of our new member is as follows:

CIE National Committee of Yugoslavia
c/o Mr. Pavle Bozic, President
Minel-Schröder fabrika svetiljki d.o.o.
Tosin bunar 51
11080 Beograd-Zemun
Yugoslavia
tel.: +381 11 100 933
fax: +381 11 61 2166

We welcome Yugoslavia as full CIE member and are looking forward to their taking an active part in the work of CIE Divisions and Technical Committees.

News from the Divisions

The following items have been summarized from Activity Reports and Meeting Minutes received at the Central Bureau. Readers requiring more information are kindly requested to contact their National Division Representative through their National Committee, or to check the Division's web site.

Division 1 – Vision and Colour

<http://nml.csir.co.za/~cie1>

The following new TCs have been established:

TC 1-57: *Standards in Colorimetry* (Chair: M. Pointer, UK)

Terms of Reference: To prepare an ISO/CIE Standard(s) that describes

- 1) the method of calculating CIE tristimulus values and chromaticity coordinates,
- 2) a uniform colour space and its associated metrics, and
- 3) a formula for industrial colour difference evaluation.

TC 1-58: *Visual Performance in the Mesopic Range* (Chair: J. Taylor, UK)

Terms of Reference: To define visual performance and related terms. To investigate performance based photometry and colorimetry in the low photopic to scotopic region. To investigate and establish a relationship between performance and equivalent luminance.

TC 1-59: *Standard Photometric 10 Degree Observer* (Chair: J. Schanda, Hungary)

Terms of Reference: To adopt the CIE $Y_{10}(\lambda)$ as the spectral luminous efficiency function of the standard photometric 10 degree observer.

The draft reports of

TC 1-19: *The Correlation of Models for Vision and Visual Performance*

and

TC 1-21: *Testing of Supplementary Systems of Photometry*

have been sent out for ballot among Division and Board members. Deadlines are 2000-06-10 and 2000-07-19 respectively.

Division 4 – Lighting and Signalling for Transport

<http://www.cie.co.at/cie/div4/index.html>

The draft report of

TC 4-15: *The Lighting of Roads for Motorized Traffic*

has been sent out for ballot among Division and Board members. Deadline is 2000-08-09.

The next meeting of Division 4 will take place on 3-8 September 2000, in Toronto, Canada (together with the Division 5 meeting). For further information on the meeting, please contact: Dr. Werner Adrian, fax: +1 519 579 6292

Division 5 – Exterior and Other Lighting Applications

<http://www.cie.co.at/cie/div5/index.html>

The next meeting of Division 5 will take place on 3-8 September 2000, in Toronto, Canada (together with the Division 4 meeting). For further information on the meeting, please contact: Dr. Werner Adrian, fax: +1 519 579 6292

Division 6 - Photobiology and Photochemistry

<http://physics.nist.gov/cie6/>

The following new TCs have been established:

TC 6-52: *Proper Measurement of Passive UV Air Disinfection Sources* (Chair: R. Vincent, USA)

Terms of Reference: To specify the biologically meaningful measurement distances and positions in installations of UV germicidal lamps for open, upper-

air disinfection. Physical aspects of the measurement will be coordinated with CIE Division 2.

TC 6-53: *Personal Dosimetry for UV Radiation*
(Chair: G. Horneck, Germany)

Terms of Reference: To update a previous report on UV personal dosimetry.

The draft reports of

TC 6-34: *Standardized Protocols for Photocarcinogenesis Safety Testing*

and

TC 6-16: *The Influence of Daylight and Artificial Light on Diurnal and Seasonal Variations in Humans, a Bibliography*

have been sent out for ballot among Division and Board members. Deadlines are 2000-06-10 and 2000-07-19 respectively.

Division 8 - Image Technology

<http://www.colour.org>

Division 8 has established a new reportership on:

Effects of Fluorescence in the Characterization of Imaging Media (Reporter: D. Rich, USA)



New Publications in the Field of Light and Lighting

Paper Optics

Nils Pauler

AB Lorentzen & Wettre, Kista, Sweden
ISBN 91-971-765-6-7

The book is intended for "paper-makers" to get a first insight into the optical phenomena that occur when they bleach, calender or otherwise influence the appearance of the paper. But it can be of interest to others as well, who would like to get some information on paper optical quality measures.

The book is divided into nine Chapters and an Appendix. After a short Introduction the physical phenomena get a short description followed by the most important standardized optical measurements. Then the author continues with classical brightness descriptors and a short introduction to the Kubelka-Munk theory. Chapters summarize the most important equations of colorimetry, deal with the phenomena of whiteness, how different processes

and surface treatment influence the optical properties. The Appendix reproduces some ASTM E 308-95 tables for colour calculation and provides an alphabetic list of expressions.

Many good and informative figures make the book an interesting and enjoyable reading. It is not intended to provide a thorough tutorial introduction into the optical and colorimetric properties of paper. It is, however, a nicely illustrated booklet (less than 100 A4 pages, with the text only covering approximately one half of each page) that can be of interest also to lighting engineers who use paper only in their everyday life.

Human-Machine Interactive Systems

Ed.: Allen Klinger

Languages and Information Systems Series
Plenum Press, New York and London, 1991
ISBN 0-306 43758 9

This book contains 14 contributions in the field of "Accessing knowledge" and "Display and design". It is interesting to compare the predictions outstanding experts made 10 years ago on the possible progress of information handling and display, and the present day reality.

In the field of "Accessing knowledge" the first paper dealt with the "Freestyle System", an alternative of the present day established windows environment. The editor of the book, Allen Klinger discusses in a paper on "Mnemonic assistance and user productivity" the problems with displaying mnemonic abbreviations in menu systems. His statement: "Many users make little use of the available power and all have difficulty in acquiring skill, something that is true in all computer application areas". A statement that holds with applications developed ten years later too.

RR Krhage and KS Joseph discuss in their paper on "Technology, information and the individual" questions how information gathering and distribution evolved during the millennia. At the time of writing the book the hard- and soft-ware prerequisites for an electronic age were set, but the human aspect, the reliability of the information put onto the net, was lacking (is it the case 10 years later too?). Usability issues were hardware confined, but the authors had a good vision how this could change within the next decade. Instead of the 'linear' book modern systems store chunks of information and provide links between these chunks. Authors stress that "along with the opportunities these systems present come

increased responsibilities and difficulties, as the system becomes more complex and sophisticated."

A comprehensive paper on "Human-computer knowledge transfer" by J Paul discusses the open problems of expert and knowledge based systems.

The second part of the book deals with "Display and design". Major chapters are: "Video, an expert consultant for visual design" by JW Roach that discusses a program that should help to develop a better visual interface. Further chapters deal with the visualisation of multivariate relations, the prototyping of two- and three-dimensional user interfaces, displays for tactile sensors. D Krishnan and TL Kunii discuss an early graphical interface for geometric modelling database that runs on a Silicon Graphics IRIS workstation. The final paper by OJ Tretiak and S Bhasin discusses an attempt to build an imaging and graphics user interface based on the language C.

The book is now almost ten years old, and it is interesting to experience the progress comparing the issues these workers dealt with, with present-day standard practice. Nevertheless it can be recommended for developers of modern display interface systems, as the literature following every monograph is an excellent survey of early research on the subject.

Multimedia Database Management Systems

Guojun Lu

Artech House, Boston, London, 1999
ISBN 0-89006-342-7

The book covers in 12 chapters and well organised sub-chapters the different multimedia data types and formats, database design issues, text, audio, image and video indexing and retrieval questions, techniques of multimedia search items, multimedia computer architecture and system support questions. The final chapters deal with multimedia information retrieval effectiveness and its measurement, product applications and security issues.

It is a well written book that can serve both as a text book for graduate and post-graduate studies, and for the interested professional of related questions.

Two groups of CIE members might be interested in the subject of this book. First of all our Division 8, dealing with image processing, should be much interested in the items covered by this book. Multimedia data compression, indexing and retrieval are covered in a comprehensive form.

Many of the subjects relate directly or indirectly to the work of Division 8. But multimedia databases become more and more important for the applied illuminating engineer as well, who uses such databases in his design work. Most modern computer design tools use such databases, and an insight how the system works, what can be expected from them in the near future can be grasped by reading this book. Thus we highly recommend it to all readers of CIE NEWS, who would like to learn about how their system and application works.

Recent Progress in Color Science

Ed.: R Eschbach and K Braun

IS&T, Springfield, 1997, ISBN 0-89208-202-X

The book summarises in six chapters 55 papers on colour appearance, 17 papers on colour constancy, four on colour equations, one single paper on colour order systems, six on colour vision and two on colour image quality.

The overwhelming dominance of papers on colour appearance makes it partly understandable that the papers selected for this volume originate (only) from IS&T and SPIE publications. The intention of the editors was to collect into a single volume the most interesting papers published during the previous four years by the two societies into a single volume. They can be congratulated, as the original conference proceedings are not always easily attainable. On the other hand it ends up in a volume that is very much one-sided. Thus e.g. the chapter on colour difference equations does not even mention CIE94 colour difference equation, not to speak of more recent investigations.

This is certainly the fault of those CIE experts who did not inform the colour imaging community on recent CIE achievements (also CMC colour difference equation is mentioned only in one of the references.)

Similarly, there has happened much more in the field of colour order systems than is covered in that single paper.

Regarding selection of papers one could also question whether it is necessary to re-publish two papers on the same subject, where one of them was only a pre-publication of the subject and the second a more detailed coverage of the subject (Accurate color reproduction of CRT displayed images ..., p. 80, a reproduction from Proc. IS&T 1994 Color Imaging Conference, and a paper with the same title from JEI - The Journal of Electronic Imaging, Vol. 5/1, p. 87, 1996).

The book contains an author index. Your reviewer would have found it useful if an index of the original publications would have also been included (reference to the original publication is available only at the end of each individual contribution).

Despite above (editorial) shortcomings the book is a valuable compilation from IS&T (and SPIE) proceedings. The title of the book would be much less misleading if this would be stressed also in the title, as the book obviously does not review the "Recent progress in colour science", it reproduces only selected papers read at IS&T (and SPIE) meetings. Even these papers are not of an evenly high quality. Thus the book is recommended mainly for the expert who has an overview of the real recent progress in colour science for other investigations and would like to have at hand under one cover papers published by the above mentioned two societies.

The New Physical Optics Notebook: Tutorials in Fourier Optics, 3rd ed.

**G.O. Reynolds, J.B. DeVelis, G.B. Parrent,
B.J. Thompson**

SPIE International Society for Optical Engineering
and American Institute of Physics
ISBN 0-8194-0130-7

This volume is the third printing of the revised *New physical optics notebook* that grew out of the original *Physical optics notebook*, first published in 1969. The revision has expanded the volume considerably from 16 to 38 chapters to include modern applications of Fourier optics.

The book is intended to be helpful for a self-study. It keeps formalism to a minimum preferring physical implications to mathematical rigor, therefore interpretation and application is emphasised and only references are given for the complete derivation of formulae. The material included is a mixture of the fundamentals and the application of these fundamentals to real problems. The many good illustrations and photographs are essential to this book, they are of great merit.

The material of the book can be divided into seven main parts. The first part, chapters 1-3, details wave propagation, array theorem and gives a short introduction to Fourier transform. The second part, chapters 4-8, deals with image formation based on impulse response and modulation transfer function. The discussion starts with the simple imaging problem of a single point object, then more complex objects like arrays of point objects, bars, etc. are

handled and finally the imaging of sinusoidal objects are shown. The next part, chapters 9-18, introduces and characterises coherence, partial coherence and coherent imaging. Resolution criteria in one and two dimensional systems, diffraction and interference of coherent and partially coherent radiation, further on considerations for the design of phase contrast microscope, Fourier spectrometer, laser contact printing, etc. are given. The fourth part, chapters 19-21, provides practical instructions to image analyses and optical noise characterisation. Based on the defined image quality criteria, phase and speckle noise reduction techniques are detailed. Part five, chapters 22-27, shows examples of coherent applications, basically interferometry and holography. The different techniques: amplitude and wavefront interferometry, two beam holograms, Fourier transform holograms, etc. and their applications are discussed. The sixth part, chapters 28-33, describes the methods of analog optical computing. Amplitude and phase filtering in the Fourier space, optical addition, convolution, differentiation, integration are detailed. The last part, chapters 34-38, is a collection of important, mostly imaging, basics and applications not fitting into the previous chapters. Optically modulated phase contrast, aperture imaging and parametric design of imaging are discussed.

This book is well written, the material is arranged in a logical order, but for the thorough understanding of the applications either prior knowledge of the basics or the use of a handbook on Fourier optics is inevitable.

Addendum to our book review on

Colour in Computer Graphics Lecture Notes and Photo CD 2nd ed. 1998

Lindsay MacDonald, MacColour Ltd.

published in CIE NEWS 53 (March 2000)

We have received the following further information from the author, which we would like to forward also to our readers:

- 1) The set is also available with 108 colour 35 mm slides with or without the PhotoCD.
- 2) Thumbnails of all images and an order form can be viewed at the web site www.maccolour.co.uk/cicg
- 3) There is a discount of 20% for readers of CIE NEWS or anyone else affiliated to the CIE.
- 4) E-mail address for contacting the author: lm@maccolour.co.uk, if you are interested in receiving a copy.

Arnold Rikli-Award 2001

For investigations in the field of photobiology in relation to human beings, we hereby announce the awarding of the

7. Arnold Rikli – Prize

in the amount of US \$ 12.000,-- for the year 2001

This prize was awarded by the Institute F. Wolff of Riehen, Switzerland as a regular event and first established in 1989. This tradition is now continued by Jörg Wolff, the brother of the former sponsor.

The reports should cover investigations on biological effects of optical radiation (ultraviolet, visible and infrared radiation). They should be of direct significance for human medical practice, or provide guidelines for future research.

Unpublished papers, or papers published after January 1, 1998, must be submitted in English language and be delivered to the office address mentioned below not later than December 31, 2000 (three copies required). The submission should focus on one area of speciality. An additional abstract of no more than 300 words should outline the research and the significance of it. In case that the submission is „in cumulo“ (at most five studies) a brief explanation should be provided uniting the presentations together. It would be worthwhile to enclose a letter of support for the award nomination.

An international jury will evaluate the investigations and determine the winner. The presentation of the award will take place at the Light Symposium, June 15th to 18th, 2001 in Boston (USA).

Office address:

Dr. Peter Bocionek
c/o Cosmedico Licht GmbH
Kölner Straße 8
D-70376 Stuttgart



Future Meetings

Street and Area Lighting Conference

10-13 September 2000, Minneapolis, MN, USA

This conference is the only lighting forum that specifically serves the outdoor lighting market. The conference program will showcase the latest in lighting products and services through educational sessions and open forums on outdoor lighting applications. Product design, marketing strategies, customer service, and sales and training are just a few of the hot topics being covered. Two lighting courses (basic and advanced) will be conducted on Sunday, 10 September. Over 40 of the most active trade allies will exhibit the latest in outdoor lighting products and services during the three-day conference program.

For further information please contact:

IESNA
120 Wall Street, 17th Floor
New York, NY 10005-4001, USA
tel.: +1 212 248 5000
fax: +1 212 248 5017
www.iesna.org

3rd International Lighting Congress and Exhibition

23-24 November 2000, Istanbul, Turkey

This lighting congress will be organized by the Turkish National Committee of CIE. An exhibition of lighting products will also take place along with the congress. The congress aims to enable all persons concerned with light and lighting in Turkey to meet, and is open for papers in Turkish or English, dealing with all topics of this subject. This congress will give the participants an opportunity to share knowledge and experience.

Topics will include:

- vision and colour
- measurements of light and radiation
- interior environment and lighting design
- lighting and signalling for transport
- exterior lighting and other applications
- photobiology and photochemistry
- general aspects of lighting (terminology, education, economics of lighting, development of light sources, luminaires, etc.)
- image technology

An exhibition of lighting products will take place from 23 to 26 November.

The registration fee (\$ 175) includes the congress proceedings, refreshments and the opening cocktail.

For further information, please contact:

Congress Secretariat
Doc. Dr. Sermin Onaygil
AYDINLATMA TÜRK MILLI KOMITESI
ITÜ Elektrik-Elektronik Fakültesi
Elektrik Mühendisliği Bölümü
Ayazaga Kampüsü
Maslak, 80626 Istanbul, TURKEY
Tel.: +90 212 285 60 50
Fax: +90 212 285 60 51
e-mail: atmk@elk.itu.edu.tr

□ Liaison Matters

IEC has sent us the following documents:

IEC/34/66/FDIS:

Draft amendment 1 to IEC 61547, Ed.1: Equipment for general lighting purposes - EMC immunity requirements

(parallel IEC-CENELEC vote)

Deadline for vote: 2000-07-17.

IEC/34A/910/CDV:

Draft IEC 60188, Ed.3: High pressure mercury vapour lamps - Performance specification

(parallel IEC CDV/CENELEC enquiry)

Deadline for vote: 2000-07-17.

IEC/34A/911/CDV:

Draft IEC 60192, Ed.3: Low pressure sodium vapour lamps - Performance requirements

(parallel IEC CDV/CENELEC enquiry)

Deadline for vote: 2000-07-17.

IEC/34A/917/CDV:

Draft amendment 2 to IEC 60809: Filament lamps for road vehicles - Dimensional, electrical and luminous requirements

(parallel IEC CDV/CENELEC enquiry)

Deadline for vote: 2000-08-31.

IEC/34A/918/CDV:

Draft amendment 2 to IEC 60810: Lamps for road vehicles - Performance requirements

(parallel IEC CDV/CENELEC enquiry)

Deadline for vote: 2000-08-31.

IEC/34D/555/FDIS:

Draft amendment 2 to IEC 60570, Ed.3: Electrical supply track systems for luminaires

(parallel IEC/CENELEC vote)

Deadline for vote: 2000-07-17.

IEC/76/217/CDV:

Laser safety - Application guidelines and explanatory notes to IEC 60825-1

Deadline for comments and vote: 2000-08-15.

Readers interested in one of the above documents are requested to contact their IEC National Committee for further details.

✚ In Memoriam

Marie de Man ✚

It is with great sadness and regret that we report the death on March 18 of this year of Mrs M J G de Man-Grondman, who passed away following an illness lasting some three years.

Marie de Man was a very special lady and human being, making easy contact with people at all levels. In 1983 she became Chef de Bureau with the Dutch Lighting Society (NSVV) and the Dutch National Committee of CIE. For more than fifteen years she was a driving force within the NSVV, and in fact within the whole of the Dutch lighting world. Indeed, as was written in the Dutch obituary "she was the face and voice of the NSVV".

Marie was involved in many national and international congresses, the 1983 CIE Session in Amsterdam being the first in which her talent for organising came to the fore. After that, her organising qualities rapidly became known and appreciated both at home and abroad.

Marie also had the rare quality of combining strong will-power and strong persuasive powers with a deep human interest in others. Even during her illness, she never lost these qualities. She was in regular contact with many colleagues from other National Committees, and for many of us it has been a rare privilege to have known her, to have worked with her, and now and then to have been persuaded by her.

Wout van Bommel

H. D. Einhorn †

Honorary Professor, Dr. Ing. (Berlin), PhD. (Cape Town) Pr. Eng. FSAIEE, Honorary Vice-President SANCI, Hon. FILESA, C.Eng. MIEE, FCIBSE.

On behalf of SANCI, with great regret, we report the death of Dr. Einhorn Thursday morning 11th May 2000. In 1949, he was the initiator of the formation of SANCI.

After working in industry in Germany as a ship's engineer, as an electrician in Johannesburg, lecturing and researching at the University of Cape Town for over thirty years with part time consulting work, Dr. Einhorn continued practising as an electrical and illuminating engineer.

He published over sixty papers, mainly on illumination based on lighting calculations, especially on linear sources, on disability and discomfort glare, on vehicle lighting and veiling reflections, on colour rendering and on lighting design.

Dr. Einhorn served on SABS committee and CIE Committees for lighting calculations, glare, colorimetry, colour rendering. As South African representative on CIE Division 3, Dr. Einhorn was the first Chairman of a Technical Committee created under the new structuring of CIE into Divisions at the Amsterdam CIE Session of 1983. His TC 3-01 was concerned with the very difficult problems of discomfort glare from very large and very small sources. His work on this TC was held up for several years for want of research data but eventually he was able to arrange for some doctorate work to be undertaken at the University of Cape Town which was completed in the 1990's and he then moved to completion of his report which will soon be published in CIE Collection. He was a meticulous engineer and mathematician in all matters he was associated with. He was also a member of TC's 1-33, 1-14, 5-04 and 5-11.

At the CIE Session in Warsaw 1999, Dr. Einhorn was awarded a CIE Certificate in grateful appreciation of his distinguished and valuable service to CIE.

In 1995 SANCI established the HD Einhorn Trophy for significant scientific, technical or artistic contributions to lighting.

He will be remembered by all who knew him as an experienced lighting engineer from South Africa who endeared himself to everyone in the international lighting community by the firmness with which he held his views on matters close to his heart. He was a personality never to be forgotten. His loss will be felt by all who knew him, especially in South Africa.

He is survived by his wife and two sons and five grandchildren, to all of whom we express our sadness and sympathies. Our memory of him will live forever.

John T. Grundy, J.D. Kendrick

From the Lighting Journals

Color Research and Application

Volume 25, Number 3, June 2000

Colour-vision tests considered as a special case of multidimensional scaling

D. Bimler, J. Kirkland, R. Jacobs

Dependence of the whiteness of paper on surface roughness and illumination conditions

A.V. Makarenko, I.A. Shaykevich

Spectral-reflectance-factor deconvolution and colorimetric calculations by local-power expansion

C. Oleari

A structural comparison of the Munsell renotation and the OSA-UCS uniform color systems

R.G. Kuehni

Visual comfort evaluated by number of categorical colors in a colored image

K. Sagawa

Influence of chromatic changes on the perception of color image quality

A. Trémeau, C. Charrier

Evaluation of a colour reference box as an aid for identification of colour appearance in rooms

M. Billger

Threshold color differences compared to supra-threshold color differences

R.G. Kuehni

International Journal of Lighting Research and Technology

Volume 31, Number 2, 1999

Emergency lighting and wayfinding provision systems for visually impaired people: Phase I of a study

M.S. Wright, G.K. Cook, G.M.B. Webber

Emergency lighting and wayfinding provision systems for visually impaired people: Phase II of a study

G.K. Cook, M.S. Wright, G.M.B. Webber, K.T. Bright

All-sky zenith luminance models for the UK

D. Kinghorn, T. Muneer

Recovery time of visual acuity after exposure to glare source

T. Irikura, Y. Toyofuku, Y. Aoki

Prediction of the artificial illuminance using neural networks

N. Colak, S. Onaygil

Volume 31, Number 3, 1999

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For your Diary

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2000			
July 1-6	International Congress on Photobiology	Secretariat 13 th ICP fax: +1 706 722 7515 maps@csranet.com	San Francisco, USA
July 2	CIE Division 6 Meeting	CIE Division 6	San Francisco, USA
July 8-9	CIE Division 3 Meeting	CIE Division 3	York, Great Britain
July 9-11	Lighting 2000 - The Millenium Lighting Conference	CIBSE, fax: +44 208 675 6554, e-mail: lighting2000@cibse.org	York, Great Britain
Aug. 24-25	2000 Annual Conference of the Illum.Eng.Inst. of Japan	IEIJ, fax: +81 3 5294 0102 ieijsomu@sepia.ocn.ne.jp	Tokyo, Japan
Sep. 3-8.	CIE Division 4 Meeting	CIE Division 4	Toronto, Canada
Sep. 3-8	CIE Division 5 Meeting	CIE Division 5	Toronto, Canada

Date	Title of Meeting	Organizer	Place of Meeting
Sep. 10-13	Street and Area Lighting Conf.	IESNA, fax: +1 212 248 5017	Minneapolis, USA
Sep.13-15	Northern Lighting Congress 2000	IES Finland, fax: +358 9 456 7042	Helsinki, Finland
Sep. 20-22	Licht 2000	LiTG, Germany fax: +4930 2601 1255	Goslar, Germany
Sep. 27-29	Energy Efficiency in Household Appliances and Lighting	AIEE, fax:+396 3234921 aieeconference@mclink.it	Naples, Italy
Nov. 6-7	2000 AIC Meeting: Color & Environment	interad@unitel.co.kr www.eventnet.co.kr/~aic	Seoul, Korea
Nov. 6-8	Light and Lighting 2000 - SANCI Annual General Meeting	SANCI, fax: 012 46 4264 drcronje@mweb.co.za	Port Elizabeth, South Africa
Nov. 7-10	8th Color Imaging Conference Colour Science and Engineering: Systems, Technologies, Applications	IS&T fax: +1 703 642 9094 e-mail: info@imaging.com	Scottsdale, Arizona, USA
Nov. 11	CIE Expert Symposium on the Communication of Colour Information in Digital Systems	CIE TC 8-05 Todd_Newman@cisnc.canon.com	Scottsdale, Arizona, USA
Nov. 23-24	3rd National Lighting Congress and Exhibition	S. Onaygil ITÜ Elektrik-Elektronik Fakültesi atmk@elk.itu.edu.tr	Istanbul, Turkey
Dec. 13-16	InterLight 2000	OWP, fax: 49 961 32035 OWP-Weiden@t-online.de	Moscow, Russia
2001			
May 17-18	CIE Division 2 Meeting	CIE Division 2	USA
June 13-15	Light 2001	BNCI http://acstre-ma.vmei.acad.bg/Light-2001/	Varna, Bulgaria
June 18-20	Lux Europa 2001	Ill.Eng.Soc.Iceland, fax: +354 515 9008, luxeuropa@lv.is	Reykjavik, Iceland
June 24-29	AIC Quadrennial Congress	AIC, paula.alessi@kodak.com	New York, USA
Sept.	CIE Midterm Meeting	CIE	Istanbul, Turkey



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Kegelgasse 27, A-1030 Vienna /Austria
Tel. +43 1 714 31 87 0
Fax +43 1 713 08 38 18
e-mail: ciecb@ping.at
<http://www.cie.co.at/cie/>