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Milli Komitesi *
CIE - **UK** * CIE - **USA**

CIE MIDTERM MEETING AND THE LIGHT AND LIGHTING CONFERENCE 2009

The CIE 2009 Midterm Meeting, together with a Light and Lighting Conference, will be held in Budapest, Hungary, between 25 and 29 May 2009. The conference will deal with all aspects of light and lighting with a special emphasis on solid state lighting and LEDs. The use of such sources is strengthened by the fact that, in several countries governments have decided to phase out the production of incandescent lamps, and just recently the European Commission has decided to fulfil the requirement to lower the production of CO₂ gases by forbidding the sale of some incandescent lamps starting in 2009.

At the Beijing Session in 2007, the CIE published a statement calling attention to the necessity to preserve light quality and not to reduce lighting power consumption and neglect visual comfort and safety aspects. The 2009 conference should demonstrate progress towards achieving these demands.

The conference will start with a short statement by the CIE Vice-President Technical and some of the CIE Division Directors, to inform the participants about research in progress in the CIE Divisions related to questions of energy efficient and good quality lighting.

The first Invited Paper will be given by Professor Andrew Stockman, who will report on the newest findings on how the $V(\lambda)$ function changes with chromatic adaptation. This could lead to a better description of task performance with modern light sources.

The second Invited Paper, by Dr. Mike Pointer, will describe work on the measurement of the appearance of objects and materials beyond classical colour and gloss measurement.

Two further Invited Papers will focus attention on two important aspects of modern illuminating engineering. Professor András Majoros will discuss how light and lighting can help the elderly and those with visual impairments in their everyday tasks and, as 2009 is the International Year of Astronomy, Dr. Constance Walker from the International Astronomical Union will discuss how light and lighting could preserve our view of the night sky.

The organizers of the Conference have tried to cope with the requests of many prospective authors and have set the deadline for contributed papers and posters at the end of January, less than four months before the conference. At the conference, in addition to oral presentations, poster authors will have the opportunity to introduce their results to the entire audience. After the conference, participants will receive a CD-ROM with all submitted and presented papers. CIE Central Bureau may publish an edited version of the papers as part of the Proceedings series.

The Conference will be held in a traditional university environment, in the newly refurbished Freshmen's Castle of the Loránd Eötvös University, just a few yards from the place where Loránd Eötvös performed his experiments that proved that inertial mass and gravitation mass are equivalent.

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The Conference will also feature a number of interesting social events, beside of a traditional get-together party, an evening organ concert followed by a bus tour through floodlight Budapest and a gala dinner on a boat showing the city from the Danube. Optional sightseeing tours for accompanying persons will be available.

On 30 and 31 May, those who would like to see more of Hungary can join optional sightseeing tours. Others might be interested to participate in a Workshop to be organized by CIE Division 4, dealing with automotive solid state lighting.

Most of the CIE Divisions and Technical Committees will meet during the first three days of the following week, 1-3 June. It is hoped that CIE divisional programmes can be enhanced by what is learned during the conference.

Light and lighting experts from all over the world are kindly invited to attend this conference and be guests at different divisional and technical committee meetings. Registration and submission of papers should be done electronically. The registration form can be reached via the

www.cie-hungary.hu

Looking forward to seeing you in Budapest next May!

Dr. János Schanda
Chair of the Organization Committee

News from the Divisions

CIE Divisions will hold their meetings in June in Budapest in connection with the CIE Midterm Meeting 2009. For exact dates, please, contact the respective website.

Division 3 – Interior Environment and Lighting Design

<http://www.cie.co.at/div3/>

The following new TCs have been established:

TC 3-47: *Climate-Based Daylight Modelling*
(Chair: John Mardaljevic, GB)

Terms of Reference:

- To describe the state-of-the-art in CBDM and determine levels of research activity.
- To identify themes in ongoing areas of CBDM research and forecasting of future developments.
- To identify key areas of core or supporting research which are either lacking or with insufficient activity.
- To determine key application areas for CBDM and the required data pre-requisites.

- To codify an authoritative workflow for CBDM that is compliant with agreed quality assurance criteria.
- To provide guidance on the application of CBDM to predict emerging daylight metrics.

TC 3-48: *CIE Standard Method of UF Table Calculation for Indoor Luminaires* (Chair: Peter Thorns, GB)

Terms of Reference: To produce a CIE standard for the calculation of utilization factor (UF) tables for indoor luminaires.

Division 4 - Lighting and Signalling for Transport

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

TC 4-47 will hold a workshop on Saturday May 30th, 2008 in Budapest in conjunction to the CIE Midterm Meeting 2009.

New CIE Supportive Members

We are pleased to announce that
Zumtobel AG, Austria

joined CIE as Silver Supportive Member and

PERTH y LÓPEZ Ingenieros Asociados, Mexico

joined CIE as Supportive Member

Supportive members benefit from the right to use the CIE Supportive member logo on their letterhead and in their publications so as to show that they are fully up to date with the latest information on world wide lighting trends, research and standards, and, depending upon membership category, the internal or external exploitation right of CIE publications. Supportive Members of the CIE also provide additional support that helps CIE to carry out its work.

Supportive Membership is open to companies and organisations working on an international or regional scale, having an interest in light and lighting and wishing to support the work of the CIE. Such organisations may include equipment manufacturing companies, commercial organisations, consultants and lighting designers, local government and government departments, educational organisations, etc.

The level of support is classified by the amount of annual membership fees and benefits received.

- Supportive Member: € 500
- Silver Supportive Member: € 3000
- Gold Supportive Member: € 8000

More information on this membership scheme can be obtained from the CIE Central Bureau (ciecb@cie.co.at).

Indoor Daylight Illuminants

CIE 184:2009

ISBN 978 3 901906 74 9

The CIE recommended daylight illuminants in 1967. These daylight illuminants contained ultraviolet radiation in proportions as found in natural outdoor daylight. Indoors this daylight is filtered by the transmission of the window glass; therefore it became necessary to define spectral power distributions also for the indoor daylight phases. The TC recommends adoption of two indoor daylight illuminants ID50 and ID65, that correspond to the phases of daylight of about 5000 K and 6500 K correlated colour temperature. Tables of the spectra are provided at 5 nm intervals from 300 nm to 780 nm, along with the rationale for their development and detailed comparison with existing daylight illuminants.

The Technical Report consists of 22 pages with 5 figures and 2 tables. The price of this publication is EUR 44,- (Members of the National Committees of the CIE get 50% discount).

New Publications in the Field of Light and Lighting

Automotive Lighting and Human Vision

Burkard Wördenweber, Jörg Wallaschek, Peter Boyce and Donald D. Hoffman

Springer, 2007, ISBN 978 3 540 36696 6

The book is unique in its content, as the authors tried to amalgamate vision science and automotive technical knowledge, providing information for interested parties of both sides. The book is written in a somewhat unusual fashion, where the text is interrupted by so called "spotlights" explaining some items in more detail, pointing at unsolved questions or guiding to their solution.

The first chapter deals with human visual perception, and shows many exciting examples how our visual system constructs from partial information a picture. Authors guide the reader to interesting and fascinating examples to be found on the Internet.

The second chapter deals with automotive lighting, discussing both lighting of the car interior, and exterior: signal lights and headlights. Your referee found parts of this chapter a little bit biased towards examples of one manufacturer. Also some parts were written almost for the layman, how to evaluate his/her car headlamp performance, others went deeply into the subject. Although the chapter

deals with modern LED headlamps, one can see here how quick the development of this subject is. The book, published a year ago, and probably sent to the printer a good six months earlier, seems to be outdated on the subject. Concepts for the future got realized in the meantime.

Chapter 3 is termed "Fundamental problems with Automotive Lighting" but deals with fundamental problems of visual science issues needed to be able to understand mesopic vision and glare.

The last chapter deals with automotive lighting and its mechatronic realisation. Many questions where the reader might have felt to be left without an answer in chapter 2 get their detailed description in this chapter.

Although authors claim in their foreword that they have dealt with the subject in an intensive joint session, the book shows a non-even style, which is partly due to the fact that beside the four main authors a number of further authors were involved in the spotlight sections.

The book is certainly an interesting reading piece both for the visual scientists and the applied automotive engineers, who will learn many interesting basic visual facts that they can use in their practical designs. In this respect it is a pity that also this book is not free from smaller misprints that might annoy the reader and of somewhat oversimplified statements. Thus your referee missed some more detailed description of the different pathways of the visual system (pp. 53-58). Thus, e.g. in the explanation of the influence of light on the circadian rhythm, the light sensitive ganglion cells are not mentioned, to the best knowledge of your reviewer the modern visual science does not count with the input of the S-cones in the red-green opponent mechanism.

Sometimes one finds strange descriptors, as e.g. under "quality of light" the authors discuss a simulation software, the section entitled "Ever changing technologies for luminaires" discusses a number of items, starting with light sources, building blocks of luminaires, but not the automotive luminaire as such.

Despite of all these smaller shortcomings the book is a real treasure house of automotive lighting know-how and discusses visual fundamentals related to driving in a short but well formulated form. It can be full-heartedly recommended both to automotive lighting engineers and scientists who would like to apply their knowledge to automotive lighting.

J.S.



Future Meetings



Call for Papers

EXPERIENCING LIGHT 2009

International Conference on the Effects of Light on Wellbeing

26–27 October 2009, Eindhoven, The Netherlands

EXPERIENCING LIGHT 2009 is an international two-day scientific conference for those interested in the effects of light and light design on human wellbeing. It approaches wellbeing in its broadest sense, including mood, emotions, subjective and objective health, comfort, atmosphere perception, productivity and performance.

EXPERIENCING LIGHT 2009 is the first international conference that has a major focus on the psychological processes related to the perception of and exposure to both natural and electric lighting. The goal is to bring together a multidisciplinary group of researchers and designers working in this domain so they can meet, share experiences, present research, and exchange ideas.

Key themes of the conference include, but are not limited to:

- Daylight and electric lighting
 - Intensity, colour, and colour temperature of light
 - Direct vs. indirect lighting
 - Dynamic vs. static lighting
 - Lighting and fixture design
- And how these impact on
- Sensation & perception
 - Mood & atmosphere
 - Vitality & need for restoration
 - Productivity & performance
 - Health & well being
 - Experience of space and architecture.

Academics and practitioners with an interest in research, theory, technologies, design, and applications related to the psychological effects of lighting are invited to submit their work for presentation. Original, high quality papers are sought which make substantial contributions to the field. All accepted papers will be collected in the printed volume (with ISBN) of the official conference Proceedings.

EXPERIENCING LIGHT 09 will follow a thorough blind peer reviewing process in order to guarantee the quality and relevance of the work presented.

The submission format is extended abstracts of up to 1200 words (excluding references), in Word or pdf format. Authors of accepted papers will be invited to submit full papers (around 10 pages) for publication in the printed conference proceedings.

Important dates

Extended abstract deadline: 1 March 2009

Notification of acceptance: 15 April 2009

Full paper deadline: 1 June 2009
(only for accepted abstracts)

For further information please contact

The Organising Committee

Yvonne de Kort, Wijnand IJsselsteijn,
Ingrid Vogels, Marielle Aarts, Ariadne Tenner,
and Karin Smolders

<http://www.experiencinglight.nl> and
el2009@tue.nl

† In Memoriam

Margaret B Halstead † 1928-2008



Margaret was a pupil at Ealing Grammar School, where she became Head Girl. She studied for her degree at Acton Technical College, and obtained a BSc degree of the University Of London. Her first appointment was with Atlas Lighting Ltd, which soon became Thorn Lighting Ltd. She was to remain with them throughout her working years. At that time - in the early 1950's - women were not so readily accepted in the field of engineering as they are today. But everyone who had to deal with Margaret very soon developed a great regard for her skill and abilities. Not only did she prove to be an excellent scientist, but she had great wisdom, and a wonderful ability to get on with people. She first worked under Dr S T Henderson, on the development of fluorescent lamps, and became deeply involved with their colour and colour rendering properties. The calculations involved were massive, and at that period were mostly done on hand-cranked calculating machines. It says much for Margaret's hard work and patience that so much was achieved.

Margaret was soon recognised as an authority in this field, and was often called on to contribute to meetings and deliver lectures. She was a staunch supporter of the Colour Group (Great Britain),

becoming Secretary in 1972, and Chairman in 1977 - the first woman ever to hold that position. She excelled in both offices, and was the principal organiser of the York 1973 AIC conference, which was perfectly managed. Margaret had little time for political correctness, and I remember her annoyance when someone addressed her as 'Madam Chairperson'. As far as she was concerned, the office was that of 'Chairman' and nothing else!

She carried out much excellent research in the colour-rendering field, often in collaboration with the late Dorothy Morley - another spirited character. It was they who first applied statistical techniques to the acceptability of the colour rendering of light sources, producing a string of papers which remain as standard works today. This led her into international discussions over the development of a colour-rendering index. There were many widely divergent and strongly held opinions about this, and the discussions dragged on for many years. The fact that an index ever appeared was largely due to Margaret's skill, tact and wisdom. She served as chairman of the CIE technical committee concerned, and of several others. She was awarded the Newton Medal of the Colour Group for her contribution to colour science, and was elected an Honorary Member in 1988.

Margaret retired in 1988 when she was presented with a CIE Certificate in recognition of her service to CIE. Although she often came to Colour Group meetings, she kept her private life and her work firmly apart. She had interests in travelling, in genealogy, in the work of the National Trust, and gave much help to the Methodist Church where she worshipped. She also helped with the work of the Soroptimists.

It is no exaggeration to say that we owe much of our understanding of the colour rendering, the beautiful lighting that we enjoy today, to her. But those who knew her will always remember Margaret for her warm humanity and her strong sense of humour - her company was always enjoyable.

Dr Arthur Tarrant
who had known Margaret since 1951.

Todor Kehlibarov † 1934-2008



Todor Kehlibarov was born on June 22nd, 1934 in Lovech, Bulgaria. He was the founder and former Chairman of the "Color Group" in Bulgaria and one of the founders and most active members of the Bulgarian National Committee on Illumination (BNCI), which he represented in the Division 1, *Vision and Colour*, of the International Commission on Illumination (CIE), where he (co-)authored numerous CIE publications related to colorimetry, colour and applied optics and over 70 research works.

Professor Kehlibarov has organized over 25 national and international conferences related to lighting devices and colour and has presented over 40 plenary papers at numerous international conferences.

He also participated in the building of over 25 laboratories for colorimetric and light measurements in many universities and industrial companies in Bulgaria and abroad.

In 1987 he was awarded the "Medal of Science" by the Bulgarian Academy of Sciences in recognition of his research achievements.

The International Commission on Illumination conferred him a certificate for his active participation in discussing and preparing publications and standards of international significance.

His scientific and professional expertise and activity have played a vital role in the development of the contemporary science of illumination in Bulgaria.

Bulgarian National Committee on Illumination

Gennady Shakhparunyants † 1938-2008



Gennady Shakhparunyants, General Director of the Russian Lighting Research Institute, Vice-President of the CIE, President of the Illuminating Engineering Society of Russia and President of the Lighting Trade Association, has passed away after having suffered from serious illness on the 30th of December 2008.

Just to mention his ranks and positions says everything about his general recognition in Russia and the World.

All his work activity was inseparably linked with the VNISI (Russian Lighting Research Institute). Gennady Shakhparunyants' early works were in the field of television and special exposition lighting. His endowments and great erudition, his diligence, dedication and extraordinary vital energy, organizing talent and modern method of solving various problems made him become one of the central figures of the Russian lighting engineering community.

In the 70's, Gennady Shakhparunyants took part in research works in such fields as outdoor, sport, TV and special indoor lighting. The practical result was the creation of lighting installations of several unique objects including the Kremlin's Congress Palace, the Studio of All-Union TV-center and the sports complex "The Olympic Games-80".

In the 80's, Gennady Shakhparunyants being the director of the Russian Lighting Research Institute was in charge of works in the technical re-equipment of leading electro technical factories in USSR. In this job his eminent human state was proved once again.

In Russia's hard times of the 90's the Russian Lighting Research Institute could be saved and focused on the solution of important problems for that times: energy efficiency, methods of computer lighting projection, ecological problems. It was without any doubt the great achievement of Gennady Shakhparunyants. The very important work on the development of new technical equipment for the Ministry of Defense was led by Gennady Shakhparunyants, too.

Being the head of the post-graduate course at the Russian Lighting Research Institute and Chairman of its dissertation council he did his best to increase the scientific potential of Russian lighting engineering. We were always surprised at his readiness to share his experience and ideas, to help everybody.

The greatest professional passed away. It is a great loss for Russian lighting engineering.

Russian National Committee of the CIE

From the Lighting Journals

Color Research & Application

www.interscience.wiley.com

Volume 33, Issue 6, December 2008

Neural Mechanisms of Chromatic and Achromatic Vision

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Journal of Light & Visual Environment

www.ieij.or.jp/english

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Lighting Design + Application

www.iesna.com

October 2008 Industrial Lighting

November 2008 LEDs: The Promise and the Pitfalls

December 2008 Bridge to Somewhere
(Philadelphia's Falls Bridge)

Lighting Research and Technology

http://lrt.sagepub.com

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The Lighting Journal

www.ile.co.uk

Volume 73, Number 6, December 2008

ILE Conference 2008

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How to improve Street Lighting – and help Save the
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Assessing White Light – the Story continues

E. Henry

For your Diary

Date	Title of Meeting	Organizer	Place of Meeting
2009			
April 23-25	Lux Pacifica 2009 Light without borders	Illuminating Eng. Society of Russia LuxPacifica2009@yandex.ru www.svetotech.com	Khabarovsk, Russia
May 11-14	SPIE Optifab	SPIE customerservice@spie.org spie.org/ofbcall	Rochester, NY USA
May 25-29	CIE Midterm Meeting 2009	CIE Hungary http://www.diamond-congress.hu/cie2009/ CIE Central Bureau ciecb@cie.co.at	Budapest, Hungary

May 30	CIE Division 4 Workshop	CIE Hungary http://www.diamond-congress.hu/cie2009/ CIE Central Bureau ciecb@cie.co.at	Budapest, Hungary
June 1-3	CIE Division Meetings	CIE Hungary http://www.diamond-congress.hu/cie2009/ CIE Central Bureau ciecb@cie.co.at	Budapest, Hungary
June 14-18	SPIE Europe Optical Metrology	SPIE spieeurope@spieeurope.org spie.org/eomcall	Munich, Germany
August 2-6	SPIE Optical Engineering + Applications	SPIE customerservice@spie.org spie.org/opticscall	San Diego, CA USA
Sept 9-11	Lux Europa 2009 Lighting and the Environment	Leyla Dokuzer Öztürk luxeuropa2009@itu.edu.tr www.luxeuropa2009.org.tr	Istanbul, Turkey
Sept 27 - Oct 2	AIC 2009 11 th Congress of the International Colour Association	AIC 2009 Congress Managers aic2009@tourhosts.com.au www.aic2009.org	Sydney, Australia
Sept 28-30	ISAL 2009 International Symposium on Automotive Lighting	Prof.Dr.-Ing. habil. Tran Quoc Khanh info@isal-symposium.de www.isal-symposium.de	Darmstadt, Germany
Oct 26-27	Experiencing Light 2009 International Conference on the Effects of Light on Wellbeing	www.experiencinglight.nl	Eindhoven, The Netherlands
Oct. 28-31	PLDC 2009 The 2 nd Global Professional Lighting Design Convention	Louise Ritter lritter@via-internet.com www.pldplus.com	Berlin, Germany

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