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## ACCESSIBLE DESIGN IN LIGHT AND LIGHTING GUIDELINES FOR LIGHTING FOR THE ELDERLY AND PEOPLE WITH DISABILITIES

With the globally increasing share of population of older people and also the increase of awareness for the rights of persons with disabilities, care for older people and people with disabilities is becoming a worldwide concern in governmental, social and economic affairs. This global movement has therefore reflected on international standards organizations such as ISO, IEC and the CIE in their development of standards. The design that takes care for those with special needs is called Accessible Design or Accessibility.

The basic concept of accessible design is to extend ordinary design methods to meet the needs of people with special requirements to reach as many users (or customers) as possible. For example, if the letters in visual signs or product labels are too small for people with low vision to read them, accessible design means to enlarge the font size to enable them to read without using any assistive tool, such as a magnifier. Furthermore, if the letters are provided in Braille letters even blind could be a user group. This increase of users by some additional design considerations is the basic concept of accessible design, and various types of this design can be considered.

To spread this excellent concept among standards developers, ISO and IEC jointly published a general guide on Accessible Design in 2001, which is called ISO/IEC Guide 71 and has become now a well-known document in international, regional as well as domestic standard bodies<sup>1)</sup>. The CIE, as one of the international standards organizations, also committed itself to promote accessible design in all areas concerning light and lighting.

In the lighting field, there are many factors to consider along with the fundamentals of accessible design. For example, glare is one of the popular problems of which older people suffer in their everyday life. People with low vision always need a much larger font size in public signs and appropriate lighting levels as well. The visual field of people sitting in a wheelchair largely differs from that of people standing and this may cause some problems in finding visual signs, like emergency signs. The ISO/IEC Guide 71 addresses some of those critical factors but CIE has to consider what it can do for Accessible Design in designing the visual environment and apply its expertise. In fact, CIE has already touched this issue from the 1980s on, and provided some excellent publications (see CIE 123-1997 "Low Vision" or CIE 146:2002 "CIE Equations for Disability Glare"), but there are still many more items to take into account to improve lighting technologies for older people and people with visual disabilities.

### IN THIS ISSUE

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The CIE Board of Administration, TC 1-54 "Age-Related Change in Visual Response". TC 3-44 "Lighting for Older People and People with Visual Impairment in Buildings" are the groups currently working on this issue. One of the outcomes of those activities is the publication and approval of the "CIE Guidelines for Accessibility", which is about to be published. These guidelines include necessary technical information for implementing accessible design in the field of lighting, such as vision data of older people or people with low vision as well as design considerations for lighting and visibility for these groups. The guidelines also include excerpts from the ISO/IEC Guide 71 that are relevant to lighting designers.

To offer technical information on ageing or limits of visual abilities of people with disabilities is one of the key issues in promoting accessible design<sup>2)</sup>. We have to know how our eye changes with age, or how people with low vision perceive the lighted environment. Such information is apparently critical for designing better lighting, but not sufficiently covered in literature. The CIE guidelines include some useful information on this point, for example, luminous efficiency for photometry and colorimetry, visual acuity and font size for visual signs, colour combinations, glare avoidance, the visual field and detectability, the required lighting level, as well as various design considerations in light of accessible design.

The guidelines are an informative document and will be useful for lighting designers who try to implement accessible design. We do hope that accessible design is given more concern among the lighting designers and that the Guide is widely used.

References:

<sup>1)</sup> ISO/IEC Guide 71:2001 Guidelines for standards developers to address the needs of older persons and persons with disabilities.

<sup>2)</sup> ISO/TR22411:2008 Ergonomics data and guidelines for the application of ISO/IEC Guide 71 to products and services to address the needs of older persons and persons with disabilities.

Dr. Ken Sagawa  
CIE Secretary



## 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 1 – Vision and Colour

<http://www.cie.co.at/div1/>

### Division 2 – Physical Measurement of Light and Radiation

<http://www.cie.co.at/div2/>

### Division 3 – Interior Environment and Lighting Design

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

### Division 4 - Lighting and Signalling for Transport

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

Change in Terms of Reference:

*TC 4-32: Surface Colors for Traffic Signs* (Chair: Jürgen Ewald, DE)

*New Terms of Reference:* To revise CIE 39.2-1983, in order to bring it up to date and extending it by dealing with: combination of retro-reflective and fluorescent materials; metallized retroreflective materials; requirements for night time colours, specification of colours for a higher class of recognition; description of smaller boxes in the chromaticity diagram for new materials; safety colours; maintenance.

### Division 5 – Exterior Lighting and other Applications

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

### Division 6 – Photobiology and Photochemistry

<http://www.cie.co.at/div6/>

### Division 8 – Image Technology

<http://www.cie.co.at/div8/>

## New CIE Supportive Members

We are pleased to announce that

### Schröder Group, Belgium

re-joined CIE as Silver 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)

## 👉 Future Meetings



**VIA-Verlag  
in Collaboration with PLDA**

**The 2<sup>nd</sup> Global Professional Lighting Design Convention**

**PLDC 2009**

**28-31 October 2009, Berlin, Germany**

The 2<sup>nd</sup> Professional Lighting Design Convention will be held in Berlin, Germany from 28<sup>th</sup> to 31<sup>st</sup> October, 2009. This convention follows in the footsteps of the immensely successful PLDC 2007, held in London, UK in October 2007. The PLDC 2009 convention will synthesize the follow-up on the corner stones laid in London regarding the official establishment of the profession of Architectural Lighting Design. It will also focus on all issues that make Lighting Design a contemporary discipline that shares the global responsibilities of creating a better world and contributes to preserving and safeguarding its existing achievements. The Convention will include a three-day conference with invited papers, presented papers, an electronic self-running poster session, a small exhibit of the manufacturers sponsoring the event, and a Gala Dinner during which outstanding achievements in Lighting Design will be recognized as well as efforts by the young generation of lighting designers.

The interest in the PLD Convention continues to grow. For the convention this year the organisation team holds a limited number of entrance tickets! The organisers are reckoning on more than 1300 attendees of which 350 tickets are already allocated. The interest in the PLD Convention continues to grow. For the convention this year the organisation team holds a limited number of entrance tickets! The organisers are reckoning on more than 1300 attendees of which 350 tickets are already allocated. A registration form, offering a special early registration price for all reservations arriving at the PLDC Organisation Office before 31st May, 2009, is available online.

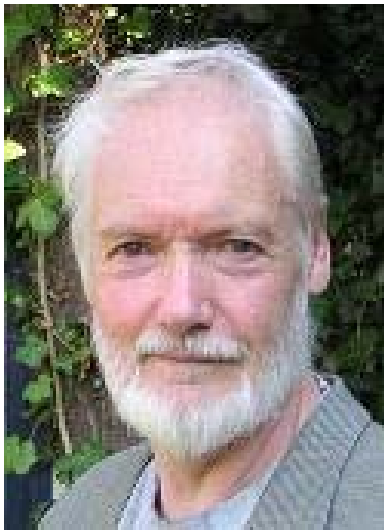
PLDC 2009 Ticket Price Table						
	Early registration			Regular rates		
	Standard ticket	Member of Partner Association	Student	Standard ticket	Member of Partner Association	Student
Session (half day)	160 EUR	135 EUR	70 EUR	200 EUR	170 EUR	85 EUR
One day	280 EUR	240 EUR	120 EUR	350 EUR	300 EUR	150 EUR
Two days	425 EUR	360 EUR	180 EUR	530 EUR	450 EUR	225 EUR
Full conference	480 EUR	410 EUR	205 EUR	600 EUR	510 EUR	255 EUR
Gala Dinner	250 EUR	250 EUR	250 EUR	250 EUR	250 EUR	250 EUR
<b>All prices exclude VAT (except student rates)</b>						
<b>* Early registration before 31. May, 2009 (full programme available on 28 February, 2009)</b>						

For further information please contact:

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 fax.: +49 5241 30726-40  
 www.pld-clus.com

## † In Memoriam

### Rikard Küller † 1938-2009



We are among many friends and colleagues who will miss Rikard Küller, who was Professor Emeritus in environmental psychology at Lund University, Sweden. He left us January 21, 2009 after a long period of illness.

Rikard Küller was one of the most prominent figures in environmental psychology in Sweden and internationally. In 1965 Rikard was employed by professor Carl Axel Acking at the Department of Architecture, Lund Institute of Technology, where he worked as a lecturer in the education of architects and as a researcher. In his dissertation, which was one of the first in Sweden with an environmental psychological approach, Rikard developed a new psychometric method to assess the built environment, the semantic environmental description (SED). Rikard had a bachelor and licenciate degree in psychology. In 1973 he received his doctorate, a DSc, in theoretical and applied aesthetics. The strong link he made between architecture and psychology was characteristic for his entire research career. His research covered over 40 projects and has been presented in 190 publications in a wide range of areas such as perception of light and colour, work environments, health and recreation environments for elderly people, and during the last years also global sustainability issues. Rikard found no research question too small and he was always prepared to give all the efforts needed to solve a research problem. His efforts strongly contributed to the theoretical and methodological development of environmental psychology. In the 1970s Rikard was for example one of the first people in the world to register brain activity in response to the built environment.

Internationally Rikard became most well-known for his advances in studies on the non-visual effects of lighting and colour. He was in many ways a man ahead of his time when formulating his research questions. At the CIE 20th Session (Amsterdam 1983), Rikard presented his research on "Non-visual effects of office lighting", which was a field investigation of fluorescent lamp type and seasonal effects on neuroendocrine hormones. His presentation was met with scepticism, but in 1993 he was awarded CIBSE Walsh-Western Award for the best fundamentals paper in Lighting Research and Technology during 1993, for the paper: with L. Wetterberg titled "Melatonin, cortisol, EEG, ECG and subjective comfort in healthy humans: Impact of two fluorescent lamp types at two light intensities" (Lighting Research and Technology, 25(2): 71-81). He went on to chair CIE TC 6-16, which produced the publication CIE 139:2001, "The Influence of Daylight and Artificial Light on Diurnal and Seasonal Variations in Humans - a Bibliography".

Rikard had a large international network. As early as 1973 he arranged an international conference in architecture psychology in Lund. He had several international assignments as guest researcher, guest lecturer, plenary speaker at international conferences in Europe as well as in Japan, USA and the former Soviet Union. He served as a scientific consultant to UNESCO in 1979. He was engaged in international organisations, being one of the founders of and the first President of the International Association for People-Environment Studies (IAPS).

Before entering his research career, Rikard in the 1960s travelled alone through Africa. Everybody who has worked with him has heard hilarious stories about this trip. Another source of anecdotes was his weekly visit to the tennis court — or as he would have said, his most important meeting during the week. Probably it was; many are the times when he called his colleagues and students after a game and suggested new solutions to our research problems.

In the 1980s he founded the environmental psychology unit at Lund Institute of Technology, where he worked together with his wife Marianne Küller for many years. Until his last days he was writing scientific papers and served as a mentor for the research group at the environmental psychology unit. Rikard was a brilliant, creative and thorough scientist and a great source of inspiration for his colleagues and students. He was also a supportive, caring and loving friend who was always willing to share his extensive knowledge and experiences in environmental psychology.

*Maria Johansson and Thorbjörn Laike  
Lund University*



## **From the Lighting Journals**

### **Color Research & Application**

www.interscience.wiley.com

*Volume 34, Issue 1, February 2009*

Talking about Color... which George Palmer?

R. Kuehni

Testing LED Lighting for Colour Discrimination and Colour Rendering

E. Mahler, J-J. Ezrati, F. Viénot

Proposal for an Indoor Daylight Illuminant

K. Gombos, M. Pointer, C. Sik-Lányi, J. Schanda, T. Tarczali

Reconstruction of Reflectance Data by Modification of Berns' Gaussian Method

N. Attarchi, S.H. Amirshani

Experimental Determination of Laws of Color Harmony. Part 3: Harmony Content of Different Hue Pairs

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Chroma, Chromatic Luminance and Luminous Reflectance. Part I: Basic Research and Illustration of Relations Part II. Related Models of Chroma, Colourfulness and Brightness

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Using Appearance Maps Drawn from Goniocolorimetric Profiles to predict Sensory Appreciation of Red and Blue Paints

O. Etteradossi, S. Perquis, V. Mikec

Assessing the Affective Feelings of Two- and Three-Dimensional Objects

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Manifestation of Depressive Tendency in Color Perception and Colors utilized in creating a Self-Portrait

F-G. Wu, E. Chang, Y-J. Lee

Cinematic-Film Protection using Metameric Blancs

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*Volume 34, Issue 2, April 2009*

Estimation of CIE Tristimulus Values under Various Illuminants

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A Spectrometric Color Matching Algorithm for Precolored Fiber Blends

R. Li, Y. Song, F. Gu, W. Pan

The New Derivate Visual Function improving the Instrumental Estimation on the Visual Color Difference for the Metamers with about 1° Field Size

W-G. Kuo, Y-C Wei, A. Liu, S-M Lin, Y-T. Shu

Proposal for Selecting Two-Color Combinations with Various Affections. Part I: Introduction of the Method. Part II: Demonstration of the System

Y. Nayatani, H. Sakai

Color, Arousal and Performance – A Comparison of Three Experiments

R. Küller, B. Mikellides, J. Janssens

Assessing the Color of Red Wine like a Taster's Eye

B. Hernández, C. Sáenz, J. Fernández de la Hoz, C. Alberdi, S. Alfonso, J.M. Diñeiro

Notes toward a Verifiable Vector Algebraic Basis for Colorimetric Modeling

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Optical Tools to Assess Naturalness of Cosmetic Films

P. Maitra, A. Balina, S. Carlo, J.R. Glynn Jr.

2008 Inter-Society Color Council Annual Meeting "The RGBs of Color"

C.C. Miller, M.E. Nadal

Color – Effects and Affects

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### **Journal of Light & Visual Environment**

www.ieij.or.jp/english

*Volume 33, Number 1, April 2009*

Security Lighting around Rikkyo University Morris Hall

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Emission Characteristics of High Color Rendering Index Low-Pressure Xe and CO ICP's Light Source

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A New Usage of Laser Interferometer for Accurate Determination of some Physical Parameters of Carbon Dioxide as One of Most Popular Environmental Pollutant Gas (2)

R. Ghazy, N. Hendawy, S. Said, H. Nafie, F. El-Mekawey

On Physics of Optical Laser Light Scattering (OLLS) of an Industrial Polymer which may assist in Physics of Random Laser (RL) Investigation

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Restorative Lighting Environments – Does the Focus of Light have an Effect on Restorative Experiences?

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Rigorous Evaluation of the Series Solution of Integral Equation for Effective Emissivity of a Semi-Infinitely Long Circular Blackbody Cavity in Order of Reflectivity

Y. Ishido, H. Minato

Approach to the Lighting Energy Savings in Japan for Global Climate Change Prevention

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### **Lighting Design + Application**

www.iesna.com

January 2009 Progress Report 2008

February 2009 Museums on Display

March 2009 2009 Lighting Equipment + Accessories Directory

## Light & Engineering (Svetotekhnika)

www.svetotekhnika.com

Volume 17, Number 1, 2009

Needs and Challenges for Energy Efficient Lighting in Developed and Developing Countries

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The Importance of Lighting among Energy Efficiency Studies in Turkey

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Architectural Building Illumination of the N.E. Bauman MG TU

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Sustainable Quality Lighting with PEC

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Domestic Lighting for People with Sight Loss – the Real Provision of General and Task Light in 57 Homes

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Mathematical Modeling and Research of Pulse Discharge Sources of Infrared Radiation and their Thermal, Spectral and Energy Characteristics

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Daylighting Aspects for Plant Growth in Interior Environments

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Luminance Distribution over the Firmament: Taking it into Account when designing Natural Illumination for Building

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Light Devices with Blue Light Emitting Diodes and Phosphor on the Protection Glass

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A Proposal for a Behavioral Approach to Daylighting Design

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Energy-Saving Experiment in Moscow Accommodations

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Integrated Lighting and Shading Control Using Daylight Modelling of an Office Room

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Inductively-Coupled Linear Light Source Operated at Frequencies of 2-14 MHz

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Simulation and Performance Analysis of Daylight Linked Artificial Lighting System

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Simulation and Research of ESE with Frequency Controlled Fluorescent Lamp Power

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Electronic Classrooms: a New Challenge for School Lighting Guidance

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Degradation of LED based on Semiconductor Hetero-Structures of Gallium Nitride and its Solid Solutions

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Main Factors of Life Time of Bactericidal Mercury Low Pressure Lamps

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Dynamical Illumination of Public Building Interiors

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About Quasi-Stationary Stage of High Pressure Cs-Hg-Xe Pulse Discharge

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## Lighting Research and Technology

http://lrt.sagepub.com

Volume 40, Number 4, 2008

Estimating Spectral Information of Complex Fenestration Systems in a Video-Goniophotometer

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Computer Simulation Study of a Horizontal Light Pipe integrated with Laser Cut Panels in a Dense Urban Environment

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Effects of Dimming 150 W Ceramic Metal Halide Lamps on Efficacy, Reliability and Lifetime

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A Physical Model of the Atmospheric Aerosol Turbidity for estimating the Illuminance of Direct Sunlight

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Simple Reaction Times to Chromatic Stimuli: Luminance and Chromatic Contrast

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A New Retinal Photoreceptor should affect Lighting Practice

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Using Digital Cameras as Quasi-Spectral Radiometers to study Complex Fenestration Systems

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Transmission Illuminance Proxy HDR Imaging: a New Technique to Quantify Luminous Flux

J. Mardaljevic, B. Painter, M. Andersen

The Unified System of Photometry applied to Remote Airfield Lighting

M.S. Rea, Z. Yuan, A. Bierman

User Attitudes toward Tubular Daylight Guidance Systems

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Evaluation of LED Illumination for Dental Instruments

C. Li, M. Straßl, S. Rauchenzauner, E. Wintner

### **The Lighting Journal**

www.ile.co.uk

*Volume 74, Number 1, February 2009*

Heritage Lighting

Light's Impact on Health is playing a Central Role in Design

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Remote Monitoring Systems: the View from the Roadface

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Design for Energy Saving: the Passivhaus

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Shooting with Flare

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One Step Forward. One Step Back?

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The Trouble with Burials

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Lower Energy Bills from Remote Management Systems

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How Green is your Lighting?

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Highway Electrical Inspection and Testing

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Heroes of Light No.1: Alhazen (AD 965-1041)

C. Gardner

Kicking off

S. Stammers

## **For your Diary**

Date	Title of Meeting	Organizer	Place of Meeting
<b>2009</b>			
May 11-14	SPIE Optifab	SPIE customerservice@spie.org spie.org/ofbcall	Rochester, NY USA
May 25-29	CIE Midterm Meeting 2009	CIE Hungary <a href="http://www.diamond-congress.hu/cie2009/">http://www.diamond-congress.hu/cie2009/</a> CIE Central Bureau ciecb@cie.co.at	Budapest, Hungary
May 30	CIE Division 4 Workshop	CIE Hungary <a href="http://www.diamond-congress.hu/cie2009/">http://www.diamond-congress.hu/cie2009/</a> CIE Central Bureau ciecb@cie.co.at	Budapest, Hungary

June 1-3	CIE Division Meetings	CIE Hungary <a href="http://www.diamond-congress.hu/cie2009/">http://www.diamond-congress.hu/cie2009/</a> CIE Central Bureau <a href="mailto:ciecb@cie.co.at">ciecb@cie.co.at</a>	Budapest, Hungary
June 9-12	MCSL Essentials of Color Science	Munsell Color Science Lab <a href="mailto:vat@cis.rit.edu">vat@cis.rit.edu</a> <a href="http://mcsl.rit.edu">mcsl.rit.edu</a>	Rochester, NY, USA
June 14-18	SPIE Europe Optical Metrology	SPIE <a href="mailto:spieeurope@spieeurope.org">spieeurope@spieeurope.org</a> <a href="http://spie.org/eomcall">spie.org/eomcall</a>	Munich, Germany
July 9	Lighting, Architecture and Human Health Workshop	American Society for Photobiology <a href="http://www.photobiology.org">www.photobiology.org</a>	Philladelphia, PA, USA
August 2-6	SPIE Optical Engineering + Applications	SPIE <a href="mailto:customerservice@spie.org">customerservice@spie.org</a> <a href="http://spie.org/opticscall">spie.org/opticscall</a>	San Diego, CA USA
Sept 9-11	Lux Europa 2009 Lighting and the Environment	Leyla Dokuzer Öztürk <a href="mailto:luxeuropa2009@itu.edu.tr">luxeuropa2009@itu.edu.tr</a> <a href="http://www.luxeuropa2009.org.tr">www.luxeuropa2009.org.tr</a>	Istanbul, Turkey
Sept 27 - Oct 2	AIC 2009 11 <sup>th</sup> Congress of the International Colour Association	AIC 2009 Congress Managers <a href="mailto:aic2009@tourhosts.com.au">aic2009@tourhosts.com.au</a> <a href="http://www.aic2009.org">www.aic2009.org</a>	Sydney, Australia
Sept 28-30	ISAL 2009 International Symposium on Automotive Lighting	Prof.Dr.-Ing. habil. Tran Quoc Khanh <a href="mailto:info@isal-symposium.de">info@isal-symposium.de</a> <a href="http://www.isal-symposium.de">www.isal-symposium.de</a>	Darmstadt, Germany
Oct 26-27	Experiencing Light 2009 International Conference on the Effects of Light on Wellbeing	<a href="http://www.experiencinglight.nl">www.experiencinglight.nl</a>	Eindhoven, The Netherlands
Oct. 28-31	PLDC 2009 The 2 <sup>nd</sup> Global Professional Lighting Design Convention	Louise Ritter <a href="mailto:lritter@via-internet.com">lritter@via-internet.com</a> <a href="http://www.pld-c.com">www.pld-c.com</a>	Berlin, Germany
<b>2010</b>			
March 14-17	Lighting Quality and Energy Efficiency	CIE Central Bureau Congress Secretariat Mag. Leena Louise Martinez <a href="mailto:vienna2010@cie.co.at">vienna2010@cie.co.at</a>	Vienna, Austria

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