

Volume 5, Issue 4, July/August 2012

# Newsletter

The Society of Light and Lighting  
Part of the Chartered Institution of Building Services Engineers



■ **SLL: the shape of things to come**

■ **2012 AGM awards and reception**



**Secretary**

Liz Peck  
Tel: 020 8675 5211  
Fax: 020 8673 3302  
lpeck@cibse.org

**Editor**

Jill Entwistle  
email: jentwistle@cibse.org

**Communications committee:**

Stephen Lisk (chairman)  
Jill Entwistle  
Alan Tulla  
Iain Carlile  
Ruth Kelly  
Liz Peck  
Richard Forster  
Kevin Theobald  
Helen Loomes  
Jonathan Rush  
Kristina Allison  
Rachael Nicholls

All contributions are the responsibility of the author, and do not necessarily reflect the views of the society. All contributions are personal, except where attributed to an organisation represented by the author.

**Copy date for NL5 2012 is 30 July**

**Published by**

The Society of Light and Lighting  
222 Balham High Road  
London SW12 9BS  
www.sll.org.uk  
ISSN 1461-524X

**© The Society of Light and Lighting**

The Society of Light and Lighting is part of the Chartered Institution of Building Services Engineers, 222 Balham High Road, London SW12 9BS. Charity registration no 278104

**Produced by**  **MATRIX**  
PRINT CONSULTANTS

Printed in UK

No matter what our personal opinions of social media and other contemporary ways of communicating, it is clear that in business and organisational terms at least you fail to embrace them at your peril.

My own irritation, and I suspect that of many others, with Twitter and Facebook lies at the social level. The non-entity's compulsion to keep everyone informed of the tedious minutiae of their everyday existence seems egocentric beyond belief. Who cares? And it redefines our sense of privacy in an unsettling way.

There is also a danger of encouraging an already-entrenched soundbite approach to complicated issues. Life is too complex to be summarised in 140 characters (though come to think of it, 'I think therefore I am' would make rather a good tweet). However, I am not a Luddite, I love my iPad as much as the next person, and the speed and global reach with which information can now be communicated is



an invaluable facility for bodies such as the SLL. As Iain Macrae said in his presidential address (The shape of things to come, p5), it will profoundly change this society.

**Jill Entwistle**  
jentwistle@cibse.org

STOP PRESS...**STOP PRESS...**STOP PRESS...STOP PRESS...STOP PRESS...

Hugh Ogus has been awarded an MBE in the Queen's Birthday Honours for his services to education. The SLL was among the proposers for the honour which was for his work with the Mary Hare School for the Deaf, Newbury, and the Lighting Education Trust. Former owner of Poselco, which he sold in 2000, and a president of what was then CIBSE Lighting Division, he was a key force in establishing the Lighting Education Trust (LET) in 1995 and remains its chair.

The trust was born out of a determination to maintain industry support for the Light and Lighting MSc course at the Bartlett School of Graduate Studies at UCL when funding dried up. The LET is a charitable trust, and not only contributes to the Bartlett course, but established its own Lighting Diploma, a two-year distance learning course run in association with London's South Bank University.

Ogus – who is also a member and past master of the Worshipful Company of Lightmongers where he



undertakes a wide range of charitable activities, including lighting awards and bursaries – has also championed the foundation of an undergraduate degree in lighting. His many years of effort have finally paid off with the new BSc degree at Brunel University (News, p4).

His aim, he once said in an interview, is to build on the umbrella activities of the LET: 'To maintain, constantly review and update the courses, developing new ones where a need is identified; to encourage research and development; to disseminate information to users and schools; not least, to secure lighting teaching for the future.'

**Front cover:** US Institute of Peace, Washington DC, by Lam Partners. Photography: Glenn Heinmiller, Lam Partners/Bill Fitzpatrick, US Institute of Peace

Times are changing for the society; that much was made clear by Iain Macrae in his president's address.

We need to evolve in the way we operate and the ways in which we reach our members both in the UK and, increasingly important, overseas. We have already embraced social and professional media, with 650 followers on Twitter and more than 1000 members of the society's LinkedIn group. We need to maximise the opportunity that these new media avenues bring us, and convert the followers to members.

In the past few months, we have developed a video promoting not just the SLL but lighting as a whole. We need to attract not just new members but, more significantly, new, young people into lighting. We will be embracing all methods of new media to publicise this message with the video being hosted on YouTube, so I ask you all to tune in and help us spread the word, not to those already in lighting, but to a much wider audience.

I spent a lot of time at Light and Building in Frankfurt talking to people about the society. Sometimes it takes opportunities like that to take stock a little; it's easy to get caught up in the day-to-day running of the SLL, planning all of our great events, ensuring members are looked after, and forget what we're about, as an organisation. So when I have a chance to talk to people about the reasons they should engage with us, either as individuals or as a company, it gives me pause.

My first response is that we're a little different: we embrace anyone who's interested in lighting, whether they're an architect, an ophthalmologist, lamp salesman or a lighting designer; everyone is welcome. The next thing that I remember is that the SLL does most of its good work not to benefit the society itself, but for the greater good of lighting, now and in the future. Yes, we run some activities on a commercial basis, such as our publications, but with the introduction of the CIBSE Knowledge Portal, all of our publications, together with Lighting Research and Technology, are now free



to access online for all of our members.

It's more important that our members have access to information, to the right guidance, than making money. We run the Young Lighter of the Year competition each year, and students on the MSc in Light and Lighting and the LET Diploma are entitled to free membership. We need to nurture these young people – they are not just the society's future, but the industry's future.

So our responsibility as a society is to welcome this time of change, ensure that we are moving with the times, and demonstrate to our young members that they have a part to play in building the society of the future.

Those of you who attended the AGM will know that I have decided to step down from the secretariat of the SLL. My lighting design practice has become increasingly busy so I'm not able to give the society as much time as it needs to lead it effectively. Furthermore, last year I was elected as vice president, a tremendous honour, and I want to serve this role to the best of my ability. With the challenge of a changing and evolving society, the time is right for someone new to come in, to cast fresh eyes and bring new ideas. I have enjoyed every minute of being secretary and will continue to enjoy my involvement in a different capacity as vice president.

**Liz Peck**  
[lpeck@cibse.org](mailto:lpeck@cibse.org)

<b>Editorial</b>	<b>2</b>
<b>Secretary's column</b>	<b>3</b>
<b>News</b>	<b>4</b>
<b>The shape of things to come</b>	<b>5&amp;6</b>
Adapting to change: Iain Macrae's presidential address	



<b>AGM award winners</b>	<b>7</b>
<b>AGM reception</b>	<b>8</b>
<b>Sun, seeing and sky</b>	<b>9</b>
Iain Carille on daylighting papers in the latest LR&T	
<b>Green shoots</b>	<b>10</b>
Allan Howard: why GPP needs to go further	
<b>Cover project profile</b>	<b>11</b>
IALD Excellence Award winner: the US Institute of Peace in Washington DC	



<b>Events</b>	<b>12</b>
---------------	-----------

# Brunel Univ launches lighting design degree

Brunel University in Middlesex is now offering a BSc course in lighting design based on the platform of existing product design degrees. The course has been established at the university's School of Engineering and Design in collaboration with the Lighting Education Trust (LET). The first graduates will emerge in 2014.

Second-year design students have been offered the option to major in lighting design, which will involve working for a lighting company during their placement year, then a significant lighting module in their final year.

Dominic Meyrick (above left), lighting principal and partner of Hoare Lea Lighting, and Barrie Wilde (above right) of MBW Lighting, made a presentation to students on 27 February on behalf of LET. More than 20 out of 80 students subsequently signed up for an LET-organised Summer School that Brunel proposed to bring them up to speed.

For the first two years, course content will be common to four design degree options. 'The agreement with Brunel is that, with specialist input and teaching support in partnership with LET, students will have a strong architectural lighting design bias by focusing on LD in their third and fourth years,' said Hugh Ogus.

During placement and final years, the students will be signed up to the LET Diploma, giving access to its core syllabus for private study and contact with the course tutor. Through the LET, the students will also have free student membership of the SLL and ILP.

'This is a significant leap forward,' said Ogus. 'In two years from now we will have competent, pre-trained,



employable graduates from the course that are attractive to the lighting community as a whole.

'For the first time, people will come into the profession other than by chance,' he added. 'They will be there by choice and by study, rather than needing potential employers to train them from scratch.'

Brunel, with help from LET, is now seeking work placements with independent lighting design practices, multi-disciplinary practices and manufacturers for the year starting this September for a number of students who are currently doing the product design course. Hoare Lea, Arup and DPA Lighting Consultants have already agreed to offer placements.

'I would encourage others to do as we are doing and take on a placement student for a year, to enthuse and excite them about a career in lighting design,' said Meyrick. 'Our hope is that these highly motivated and creative individuals will prove attractive to the wider lighting community, whether in design houses or manufacturing.'

■ The LET has signed an agreement with the Indian Society of Lighting Engineers (ISLE) to make the LET Diploma course available in India. It will be known as the ISLE/LET Diploma in Lighting and teaching will be provided by Mewar University, a college of architecture in Delhi.

## Members' gathering proposed

Following the positive response to his letter on the absence of London sessional meetings in the last issue (Letters, p2 May/June), Arthur Tarrant is acting on his suggestion to organise a social meeting for members.

The first, experimental, meeting of what he has dubbed 'The Swans' (no prizes for guessing provenance) will be held on Tuesday 18 September from 6.30 pm onwards at the Bree

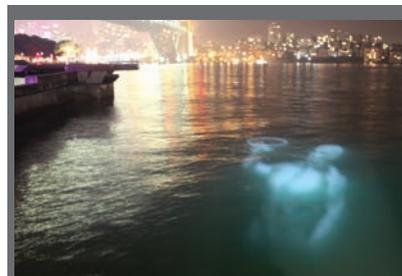
Louise, a Camra pub in the vicinity of Euston Station, London.

**Anyone interested in attending should contact Arthur Tarrant (020 8894 3339 or at [arthur.tarrant297@btinternet.com](mailto:arthur.tarrant297@btinternet.com)). The Bree Louise is at 69 Coburg Street, London NW1 2HH. The nearest tube stations are Euston and Euston Square. ([www.thebree Louise.com](http://www.thebree Louise.com))**

## NEWS IN BRIEF

■ Liz Peck is standing down as secretary of the SLL to concentrate on her lighting design practice and her continuing role as vice-president of the society. She took over as secretary in 2008.

■ Various members are giving up committee roles. Stephen Lisk is stepping down as chairman of the communications committee. Manny Stone is resigning as chair of the London Events Committee, with longstanding member Arthur Tarrant also leaving the same committee. He will still organise informal social events (see news item below).



## On the lighter side...

Visitors to the Vivid Sydney festival of light, music and ideas last month might have been given a bit of a turn if they looked into the harbour. An image of a giant man apparently lurking beneath the water appeared nightly throughout the event near the northern overseas passenger terminal tower at Circular Quay. Called sub/version, the light installation was a sophisticated bit of mapping projection and was created by Brisbane design firm the Buchan Group. They worked in association with Haycom AV which was responsible for projection, media server and installation. The work features elements usually found only on land, including high-contrast people and scenes submerged in symmetry with the spectators. A spotlight reveals forms, figures and patterns hidden in the depths. Sort of down under Down Under.

[www.vivid sydney.com](http://www.vivid sydney.com)

# The shape of things to come

The world is changing at an extraordinary pace, argues Iain Macrae, and it is vital that the SLL adapts



**'Just as technology is changing the world, it will change this society – in the way it engages with the community, the way it communicates, the way it publishes and perhaps the way it makes money'**

The rapid evolution in the ways that society is learning and communicating will have a profound impact on the way the SLL addresses its role in future, said Iain Macrae as he took over from Peter Raynham as president.

'We now need to pass on our knowledge in a world where printed text is less important than blogging, video and sound bites; new media essentially is taking the world forward at a stupendous pace,' he said in his presidential address. 'I'm not sure that the SLL will ever have more followers on Twitter than celebrities of the day, but I would hope we can have more to say, in a professional and interesting way, on the subject of lighting.'

Where information is concerned, he said, the SLL has evolved as a society into those who seek knowledge to the betterment of the quality of life, and those who apply the knowledge and information to get the job done. 'As our thirst for knowledge grows, these two parts of society need to work together, one cannot live without the other – the knowledge seekers are needed to do the research, to write the information down, pass it around, provide the

◀ education, perhaps to make sure that those who are applying the information are doing so in the right way – and this, of course, requires expertise.'

In order to perpetuate knowledge within today's global culture, a community of lighting experts is essential, and that was what the SLL represented, said Macrae. Guides such as the Code for Lighting are the leading publications on lighting, but in a global market, where standards move closer, they needed to attract a wider audience, he argued, and become more international in focus while still distilling the practice of the art and science of lighting.

'This is no easy task, not just generating the information, but protecting its value and exploiting our members' expertise to share the information. We are reminded that the SLL as a learned society exists as an organisation where people who work with light can meet, socialise and exchange information. To reflect this global audience, we need to embrace all media sources to get our message across.

'Just as technology is changing the world, it will change this society – not in its fundamental reason for existence, but in the way it engages with the community, the way it communicates, the way it publishes and perhaps even the way it makes money.'

Traditionally, the society has been dependent on membership and publications to make up its income, he said, to the point where there will be financial implications if future developments are not addressed. 'We need to plan financially for the changes we could face.'

Macrae cited the example of the CIBSE Knowledge Portal as one example of new thinking in media, offering 'huge' member benefits, but an indicator of the change that will ultimately lead to more electronic publication, to a wider and more international audience and to challenges of digital content and its associated demands. 'We have a clear timetable for the coming years of what needs to be written and by when. This year we have to set the strategy over how to publish and when one format takes over from another.'

SLL co-founder Leon Gaster would have undoubtedly encouraged the society to embrace this change, argued Macrae, but while it was important to widen access to information, it was also crucial to protect its value.

'In the same way that music and video are sought as free commodities by vast numbers of the population, so is lighting knowledge. The mindset is growing that it doesn't hurt to steal intellectual rights, designs, words and products.

'But there is an intrinsic value in a brand, and information that comes from that brand still carries weight. The credentials of an organisation such as the SLL mean its members are seen as knowledgeable, expert, a good source of information. Lighting experts will always have a value.'

A good example, said Macrae, was the way that key members of the society, working with other lighting groups, recently took hold of the debate centering on the revision of Part L of the Building Regulations, turning opinion to the point where a future based on energy use is a likely outcome for Part L rather than a simple efficacy measurement. 'It demonstrated clearly to those involved that expertise in lighting, not just energy, is vital to the debate.

'We need to continue emphasising why lighting is important in the eyes of legislators,' he continued. 'As the pressure builds, from government, to become ever more efficient it will fall to our members to make the case for performance and comfort too.'

Clarity of communication was also imperative, said Macrae, echoing the point made by new CIBSE president David Fisk in his own address. 'He suggests we face a



**'I challenge the society to become better still at the imparting of knowledge, the provision of learning, of being heard outside of our own boundaries'**

challenge: while the artists and decorative designers among our society may be able to use concepts, flowery language and play to others' appreciation of the aesthetic, those of us who deal with engineering the built environment need to be clear. To quote David, "If engineering institutions fail to comprehend that good engineering requires tight language not diffuse ideas, we are in trouble." And so, as part of CIBSE, the SLL has to face up to this challenge too.'

Bringing in new and younger members was a crucial aspect of a secure future, said Macrae, and using them to get the society's message out through social and professional media would be a key to success.

'It is also vital to attract new members in a time when money is tight, in a time when information is free, in a time where our industry has shrunk considerably. We have to attract the very people who need to learn from our experience, the very people that will be the practitioners, influencers and experts of the future, but those who also bring with them an understanding of the new media and technology that we may lack.'

Leon Gaster envisioned a society based on informality and free speech, that embraced innovation, that was passionate about new ways of thinking, said Macrae. 'I challenge the society to become better still at the imparting of knowledge, the provision of learning, of being heard outside of our own boundaries.

'If we do this correctly,' he concluded, 'and it will need commitment from existing and new members, young and old, professional and student, then the society formed more than 100 years ago will continue to be a place to meet, a family to be proud of, a place to learn and to help others learn for the betterment of our society through all things in lighting. It will continue to provide leadership in the world of light and to grow the respect it deserves.' ■

[sllpresident@cibse.org](mailto:sllpresident@cibse.org)

# Best of breed

## Plaudits and presentations at this year's AGM at London Zoo

New president Iain Macrae ventured into the lion's den, or at least the Huxley Lecture Theatre, at London Zoo for his inauguration at the annual AGM and awards.

This year's Lighting Award went to John Mardaljevic, Reader in Daylight Modelling at De Montfort University and current chair of the CIE Technical Committee 3-47: Climate Based Daylight Modelling.

Mardaljevic studied physics at the University of Leicester. He was subsequently awarded an MPhil for his work on Modelling Emission Line Profiles in Active Galaxies, a study of illumination physics. Computer modelling became the core of his work, and his next move was into the field of building performance analysis, when he joined the department of Architecture at De Montfort University in 1990. Following a three-year exeat at the Department of Zoology in Aberdeen, he returned to De Montfort, where he was awarded a PhD in 2000 for his work on Daylight Simulation.

This remains his focus, with his best known work in the development and validation of methodologies needed to introduce climate-based modelling into interior daylight simulation. 'He has shown world-class leadership and I suspect he will be credited with facilitating a step change in the practical analysis and prediction of daylight within buildings,' said Stephen Cannon-Brookes in his citation.

'The introduction of daylight simulation founded on climate data will soon be encouraging all of us to think of lighting in buildings in very different terms to the rather constrained aspects of adequate task illumination, and will allow us to integrate design with our intuitive understanding of lighting performance,' he continued. 'John's work has encouraged and supported developments throughout the world and justly deserves our commendation.'

Brendan Keely, who heads up BDP Lighting's northern office in Manchester, was given this year's Regional Award. He became the SLL's regional lighting rep for the north west in 2003. 'Since that time you have invested so much time and effort in events, sessional meetings and people in the north west,' said Barrie Wilde, former head of BDP Lighting, who gave the citation. 'It makes it so much easier in the society to have this "bedrock" in the regions.'

'His passion and commitment to the SLL has been evident throughout his BDP career, not only giving up lots of his own time but actively encouraging other members of the team to participate at events. He has helped build a lighting community in the north and I'm so pleased he's finally receiving this official recognition for all his efforts.'

The Leon Gaster Award went to Alice Agogino and Yao-Jung Wen for their paper on the control of wireless-networked lighting in open-plan offices. Mark Rea, John



New and former presidents Iain Macrae and Peter Raynham



Peter Raynham and Lighting Award winner John Mardaljevic



Barrie Wilde, Brendan Keely, Peter Raynham

Bullough and Leora Radetsky received the Walsh Weston Award for their paper on modelling outdoor lighting scene brightness. Representatives of the SLL's current sponsors – Wila Lighting, Trilux, Tridonic, Philips and Thorn – were also given Sponsors in Partnership certificates. Kevin Kelly, SLL vice president, chaired proceedings, which also included an introduction to the new Code for Lighting by Peter Raynham.

The reception was held in the conducive crepuscular glow of the Reptile House, setting for a scene from the Harry Potter film saga. Students from Rose Bruford College, clearly unable to resist a good pun, heightened the dramatic effects with a gorilla lighting exercise.

**AGM: Reception**



?????? + William Crawforth



Kevin Kelly and Alan Sherratt



Stephen Lisk, ?????? and John Crawford



Paul Ruffles and David Fisk



Shona Campbell and John Mardaljevic



Party animal



Gorilla lighting, courtesy of Rose Bruford students



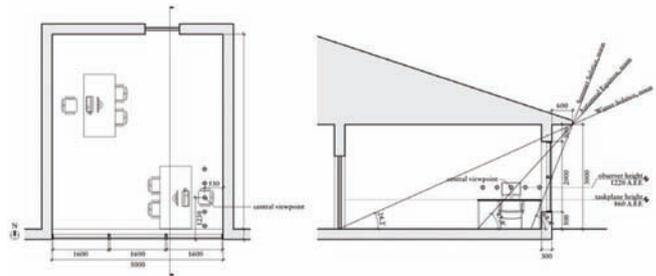
# Sun, seeing and sky

Daylighting is a key topic in the latest issue, discovers Iain Carlile

Daylighting is one of the stronger themes running through the latest issue. JZ He's opening opinion piece discusses the importance of using local sky data for the daylight design of buildings. He and Ng expand on the topic in their paper, presenting methods to predict the sky type and hourly zenith luminance through the use of geostationary satellite data. The proposed method could especially be of use when designing buildings in locations where insufficient local climatic data exists in order to successfully predict the correct CIE standard sky.

Du and Sharples present two papers on the assessment of the vertical daylight factor across the walls of atrium buildings, for both square (part 1) and rectangular-shaped atria (part 2) under a CIE standard overcast sky. A number of guidelines is presented for the design of these atria considering methods to increase the vertical daylight factors achieved.

JA Jakubiec and CF Reinhart continue the theme of natural light with their paper, The 'adaptive zone' – a



Sidelit space geometric properties in plan and section: the sidelit space has one window on the south side, while the occupant views analysed face west (The 'adaptive zone')

concept for assessing discomfort glare throughout daylight spaces. They present a method that uses existing metrics to identify the probability of the occurrence of discomfort glare in order to support the design of comfortable spaces. They also suggest methods that will significantly reduce the number of hours of intolerable discomfort glare while increasing the annual mean daylight availability in a space.

Rautkylä et al describe the brain mechanisms involved in light-induced daytime alertness. They suggest that in addition to the circadian pathway, light can use the amygdala in the limbic system to send signals to the cerebral cortex. Their model is constructed from known relations. The paper then proposes methods to test as the basis for future studies.

Three papers are presented on the subject of road lighting. Two of them (Road lighting in change: user advice for designers by M Viikari et al, and A proposed method for the calculation of light emitting diode road lighting by S Zalewski) have previously been summarised in the January/February 2012 edition of the Newsletter.

MS Rea's paper, presented at the Trotter Patterson Lecture earlier this year, discusses the illuminances required for good visual performance in road lighting, and how roadway lighting affects traffic safety. An article by Rea based on his lecture was published in the March/April 2012 issue of the Newsletter.

Ramasoot and Fotios have investigated the level of disturbance caused by reflections on a variety of display screen types, from which two models were developed. The first model predicts the luminaire luminance at which reflections did not disturb 95 per cent of observers. The second model predicts the rating of disturbance caused by the reflections on the screen.

A paper by Soltic and Chalmers investigates theoretical methods of mixing narrow-band LED spectra to create light sources consisting of four or six clustered LEDs. The aim was to optimise the radiant luminous efficacy and colour-rendering properties of the light source. ■

## Lighting Research & Technology Vol 44, No 2 2012

### Contents

- Editorial: Achieving good lighting *P Boyce*
- Opinion: The CIE Standard General Sky and local climate *JZ He*
- The Trotter Paterson Lecture 2012: Whatever happened to visual performance? *MS Rea*
- The assessment of vertical daylight factors across the walls of atrium buildings, Part 1: Square atria *J Du and S Sharples*
- The assessment of vertical daylight factors across the walls of atrium buildings, Part 2: Rectangular atria *J Du and S Sharples*
- Predicting sky types and zenith luminance from the cloud index derived from geostationary satellite data *JZ He and E Ng*
- The 'adaptive zone' – a concept for assessing discomfort glare throughout daylight spaces *JA Jakubiec and CF Reinhart*
- Road lighting in change: user advice for designers *M Viikari, M Puolakka, L Halonen and A Rantakallio*
- A proposed method for the calculation of light emitting diode road lighting *S Zalewski*
- Lighting and display screens: models for predicting luminance limits and disturbance *T Ramasoot and SA Fotios*
- Differential evolution for the optimisation of multi-band white LED light sources *S Soltic and AN Chalmers*
- Alerting effects of daytime light exposure – a proposed link between light exposure and brain mechanisms *E Rautkylä, M Puolakka and L Halonen*
- Correspondence: some open questions *J Schanda*

# Green shoots

GPP is an important component in promoting quality, energy efficient lighting – but it still needs to go further, argues Allan Howard

We live in interesting times. Never before has there been so much innovation and development in the equipment we use as lighting professionals, nor so much investigation undertaken in understanding the application of light. Yet with all the budget reductions, energy-use directives and concern over carbon emissions, the industry has never been under so much pressure.

It is therefore to the good of the lighting profession that we have seen the development of government Green Public Procurement (GPP) documents for exterior and interior lighting – although perhaps disappointing that these are only voluntary and not mandatory in their application. They are relevant guides requiring the client to look to the employment of a competent designer, a term we are hearing more and more about, and also enable the client to comply with their requirements, at least in part, under the Construction Design and Management (CDM) Regulations.

GPP does not stop there, however. It requires the designer to consider the products they use under the various EU Energy Directives, such as the Energy-related Products (ErP) Directive, to ensure that they are efficient in their operation and meet defined performance requirements in terms of lumen depreciation, lamp life, efficacy and optic control, to name but four defined criteria.

GPP acknowledges that the use of such products alone does not provide an energy efficient solution, and it is only through the use of a competent designer that a fully energy and carbon efficient lighting solution can be achieved. The designer brings the understanding of the task to be lit, the performance requirements, knowledge of optics, design process and control systems, thus providing what is termed an Ultra Efficient Lighting scheme (UEL). This is defined as providing the right light, in the right place, at the right time, controlled by the right system.

GPP also requires a whole-life costing approach and this is an important consideration. No longer can we consider just the upfront costs; we also need to include the energy and carbon use of the installation, the cost of maintenance and then the disposal costs.

The problem is that it then effectively stops. The design is passed over to a contractor and installed, and the lighting designer may hear no more of it and not know if it has been installed as they intended. It is perhaps gratifying that we are now seeing an increasing number of client/authority planning conditions requiring that the final installation be commissioned and signed off by the designer.

In this way we can ensure that the correct equipment has been purchased by the contractor, it has been installed and set up as required and that the control system has been commissioned and is working. This stage is also important for lighting designers as it enables them to review their own work, assessing what worked and perhaps what did not,



**‘The problem is that it then effectively stops. The design is passed over to a contractor and installed, and the lighting designer may hear no more of it and not know if it has been installed as they intended’**

so that this feeds back into their next design; review is an important part of competency.

This final step is still perhaps in its infancy. However, progress is being made and should eventually close the circle from the designer perspective and ensure the quality of our lighting installations. ■

**Allan Howard is president of the Institution of Lighting Professionals and technical director lighting of WSP**

# Peace with honour

A new Washington landmark was one of this year's IALD Excellence Award winners

The United States Institute of Peace, near the Lincoln Memorial in Washington DC, houses offices, an international conference centre, plus public exhibition and event space. A predominance of fluorescent sources, discreetly integrated, and use of natural light helped the project achieve LEED Gold certification.

The most striking elements of the building are the wing-like roofs that connect its three curving sections, enclosing two atria below. The multi-layer translucent structures also presented the biggest lighting challenge – illuminating the roofs with no visible sources, allowing them to glow softly both inside and outside.

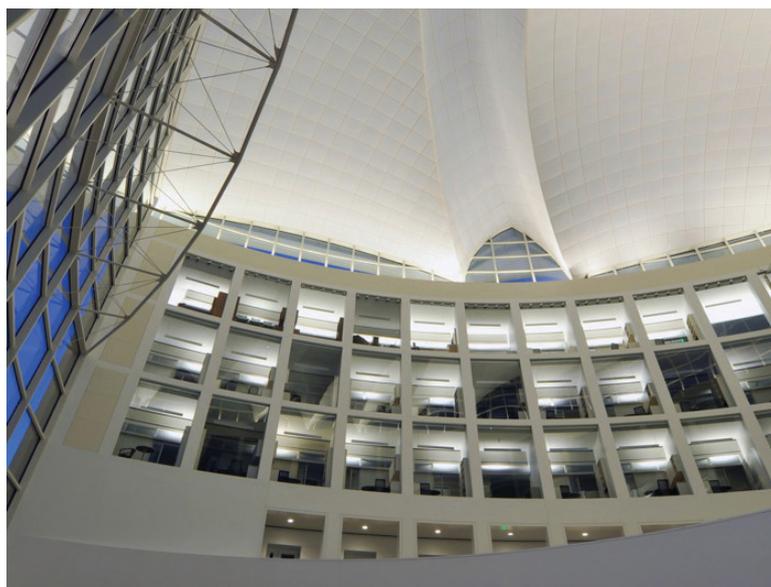
The roofs comprise an outer diffusing glass and an inner white membrane which sandwich the structural support. Extensive computer modelling, material sample testing and a full-scale mockup in Germany were carried out to determine the transmissive and diffusing characteristics of the roofs and to arrive at the lighting solution.

Illumination to the roofs comes from high-output T5 cove fixtures on the tops of the atria walls. Digital addressable ballasts allow light output to be tuned along the roof perimeter and dimmed overall, accentuating the curvature, and providing interior lighting and the exterior glow.

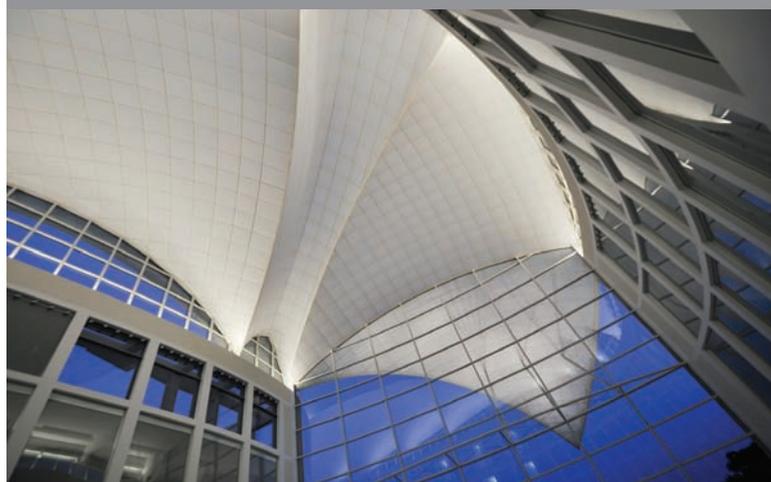
Perimeter offices are daylight, and clerestories bring natural light into the corridors so that additional electric light is often not needed. Continuous T5 strips integrated into the curving base of the clerestories keep ceilings clean while indirectly lighting both offices and corridors.

A central control system uses occupancy sensing, daylight sensing, scheduling and local preset scene control for further energy savings and occupant flexibility. ■

For full details of winners go to [www.iald.org](http://www.iald.org)



**'The technical challenge of lighting the curved roof structure has been mastered seemingly effortlessly' – IALD judges**



Photography: Glenn Heimiller, Lam Partners/Bill Fitzpatrick, US Institute of Peace

**Project:** United States Institute of Peace, Washington DC

**Lighting design:** Lam Partners

**Architect:** Safdie Architects



9-12 September: Plasa 2012, Earls Court, London

## 2012

### 12 July

Inside New Lighting Technologies  
ILP one-day seminar exploring and  
explaining the theory and use of the  
latest technologies (CPD)  
Time: 10am-4.30pm  
Venue: Mercure Piccadilly Hotel,  
Manchester  
Cost: £50 + VAT  
(an additional colleague £25)  
E: [jess@theilp.org.uk](mailto:jess@theilp.org.uk)

### 9-12 September

Plasa 2012  
Venue: Earls Court, London  
[www.plasashow.com](http://www.plasashow.com)

### 26-28 September

OLED World Summit 2012  
Location: Parc 55 Wyndham,  
San Francisco  
[www.smithersapex.com/oleds-world-summit-2012.aspx](http://www.smithersapex.com/oleds-world-summit-2012.aspx)

### 3-4 October

Professional Lighting Summit  
(Organised by the ILP)  
Location: Grand Hotel, Brighton  
[www.theilp.org.uk](http://www.theilp.org.uk)

### 16-18 October

Noche Zero  
Organised by DIAV, Light Collective  
and UCN, an educational summit  
and darkness experience

Speakers include Mark Major,  
Kaoru Mende, Professor George  
Brainiard, Cipriano Marin (Unesco  
Starlight Initiative)  
Location: San Pedro, Atacama  
Desert, Chile  
[www.nochezero.org](http://www.nochezero.org)

### 17 October

Variance in Daylight Standards  
and Statutory Minimum Daylight  
for Buildings  
(CIBSE Daylight Group)  
Speaker: David Mooney  
Venue: UCL  
[www.cibse.org](http://www.cibse.org)

### 6 November

Young Lighter of the Year Final  
Venue: LuxLive  
Earls Court, London  
[www.sll.org.uk](http://www.sll.org.uk)

### 6-7 November

LuxLive  
Venue: Brompton Hall,  
Earls Court, London  
[www.luxlive.co.uk](http://www.luxlive.co.uk)

### 14 November

LET/CIBSE Lighting  
Teachers Meeting  
(CIBSE Daylight Group)  
Chair: Hugh Ogus  
Venue: CIBSE, 22 Balham Rd,  
London SW12 9BS  
[www.cibse.org](http://www.cibse.org)

## 2013

### 27-28 February

The Arc Show  
Venue: London Business  
Design Centre, London N1  
[www.thearcshow.com](http://www.thearcshow.com)

### Lighting Masterclasses:

Masterclasses are kindly  
sponsored by Philips, Thorn,  
Trilux, Tridonic and Wila. For  
venues and booking details,  
see [www.sll.org.uk](http://www.sll.org.uk)

**PHILIPS**



**THORN**

**WILA**

**TRIDONIC**

**Mid Career College:** the college  
runs various courses across the  
whole spectrum of lighting and at  
sites across the UK. Full details at:  
[www.cibsetraining.co.uk/mcc](http://www.cibsetraining.co.uk/mcc)

**LIF courses:** details from John  
Hugill, 0208 529 6909, or email  
[training@lif.co.uk](mailto:training@lif.co.uk)