

Annual Report 2021



The Society of Light and
Lighting Annual report &
financial statements

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Headlines

CIBSE TM66 - Creating a circular economy in the lighting industry launched. Bob Bohannon was the project lead and Kristina Allison managed the project

Lighting Factfile 17 - Temporal Lighting Artifacts (flicker, stroboscopic effects and phantom arrays) launched. Written by Sophie Parry

CIBSE TM66, CEAM-Make and CEAM-Design win Platinum and Green awards at the Build Back Better Awards 2021

Maria Englezou named SLL Young Lighter 2021 with her entry *Do we need to change the design of healthcare facilities rooms?*

SLL Lighting Guide 8: Lighting for museums and art galleries launched. The publication was re-written by Mark Sutton Vane

Jeevun Grewal awarded 2021 Jean Heap Bursary for *Utilising a behavioural intervention to modify the light exposure of office workers working from home: A pilot randomised controlled trial*

LG21: Protecting the Night-time Environment launched. Originally drafted by the late Liz Peck and brought to completion by Benedict Cadbury

Ready Steady Light Returns to Rose Bruford College. After a year and a half of inactivity during the pandemic, Ready Steady light took place in October 2021 with 15 teams taking part



President's message

We started the year with some very sad news. Past President and much-loved lighting industry figure, Liz Peck, tragically passed away at the age of 46. The industry came together to share their memories of Liz and to support each other at this sad time. She is greatly missed.

During 2021, the Society continued to provide an unparalleled programme of online events, allowing more people than ever to engage with us from around the country and around the world. Events included online talks and panel discussions, covering a hugely diverse range of topics. My personal highlights include The Vision, a talk by Kerem Asfuroglu of Dark Source about his work in a dark skies area of Ireland, Light Lessons from the Ends of the Earth, a talk about lighting on the British Antarctic Survey and a conceptual Martian habitat, and Lighting the Acropolis with Eleftheria Deko.

The SLL webinars attracted 5515 attendees over the course of the year.

In January, Sophie Parry FSLL, Chair of the SLL Technical and Publications Committee presented: Emergency Lighting - First Principles of Design, Specification and Ownership.

In February, I was joined by Zoe De Grussa who works in collaboration with the British Blind and Shutter Association and Neil McLean, European Standards Leader for Lutron Electronics to deliver the webinar: Managing Daylight and Sunlight in Buildings to Work for People. Also, the SLL & CIBSE North West with SLL Regional Representative Giorgos Kourtelis MSLL hosted the online event: DIALux Evo Update with speaker, Friedrich Bremecker, President of DIAL America Inc.

In March, the SLL hosted: Good Indoor Lighting Makes People Healthy and Happy event. I was joined by speakers: Jan Denneman, Chair of the Good Light Group and Peter Raynham FSLL, Professor of the Lit Environment, Bartlett School of Environment, Energy and Resources, Faculty of the Built Environment, UCL.

The CIBSE #GrowYourKnowledge series hosted a webinar titled What You Should Know About Lighting and Facilities

Management. The presenter was Sophie Parry FSLL, lead author of LG20: Lighting for Facilities Management.

David Mooney FSLL, SLL Regional Representative for CIBSE HCSW region presented Designing Emergency Lighting Using RIBA Plan of Work. David was also busy drafting the re-write to LG12: Emergency Lighting.

In April, Sophie Parry FSLL delivered Emergency Lighting - First Principles of Design, Specification and End-User Obligations and Lighting Guide 2: Lighting for Healthcare Premises.

We held a four-part Light Bytes series based on the theme Minimum Energy, Minimum Resource, Maximum Comfort. In each of the first three sessions, our speakers Helen Loomes (Trilux), Tim Bowes (Whitecroft) and Steve Shackleton (Zumtobel) presented, followed by a panel discussion with all three speakers. In the fourth session, we had a roundtable panel discussion on the topic of Lighting and the Circular Economy with Emilio Hernandez (Strom) and Mark Ridler (BDP) along with the other speakers from the first three sessions. In total, 892 people tuned in to these sessions and the feedback was very positive.

In May, Helen Loomes FSLL was joined by Dr Manuel Spitschan, Professor Debra Skene, Professor Timothy Brown, and Professor Steven Lockley to discuss the Recommendations for Practical Applications for Melanopic Lighting Design. This was a highly anticipated event, giving us the opportunity to hear the latest findings in the field of light and health.

The SLL collaborated with the Illuminating Engineering Society (North America) and took part in their global event Light for Life. The event topic was Moving to a Circular Economy in Lighting with speakers Bob Bohannon FSLL, SLL Immediate Past-President and Kristina Allison MSLL, Chair of the SLL Education Committee. Bob and Kristina were the authors of CIBSE TM66: Creating a Circular Economy in the Lighting Industry.

The SLL & CIBSE West Midlands webinar: DIALux Evo and DIALux 4 - What to Use and Why was presented by Iain Macrae FSLL and hosted by SLL Regional Representative Sonia Pepperrell.

SLL & CIBSE South West webinar: Luminaire Specification was hosted by Bonnie Brooks MSL, SLL Regional Representative with Sarah Taylor: Senior Project Engineer, Fagerhult Lighting, Pete Mardell: MSL, Senior Designer, Arup and Richard Hall: Co-Founder, Spektd.

In May, I took the reins as SLL President from Bob Bohannon. My Presidential Address was given from my spare room to an online audience, a strange but memorable experience. Whilst it was a great pity not to be able to speak to people and celebrate in person, it was a privilege to be able to speak to our members all over the country and globally. More than 100 people logged in to listen, which was wonderful.

My Address focussed on two key themes. One was about communicating the importance of light in human health to the wider world, and the other was about the make-up of SLL membership. On the first point, I want SLL to take its place as an independent and reliable source of information in what can be a sea of misinformation about how to make healthy choices with light. The second point arises from the fact that SLL membership is overwhelmingly male, but lighting as an industry has an almost 50/50 gender split, so why is that? We want our membership to reflect the sector and be more diverse as a result.

In September I was able to attend my first in-person event, taking part in a panel discussion at the Darc Room pop-up at Design London. I shared the stage with three other independent lighting designers, Krishna Mistry, Marcus Steffen and James Poore, and host Sarah Cullen. We discussed gender equality in the lighting profession and the then recently published results of a survey about attitudes towards gender in lighting in the UK, which was spearheaded by Carmella Dagnello of WSP, supported by myself and others. It was a very positive discussion, with plenty of audience participation and it generated a lot of ideas. As a result of this, I have continued to explore ways that we can support women in the lighting profession using mentoring and peer groups, and I will continue to build on this in the future. Having SLL represented in this forum was an important step, because it has helped to increase awareness of our work with architectural lighting designers and in particular those at the start of their career. This in turn will, I hope, lead to greater engagement with throughout all of the lighting industry, and greater representation will follow.

At the time of her death, Liz had been working on a draft Lighting Guide 21, Protecting the Night Time Environment. Benedict Cadbury very kindly took on the job of finishing off the document, and it was published in September. This document is the first step in what we anticipate to be a growing body of guidance in the near future, and we are

currently planning a larger Guide that will incorporate the latest knowledge about lighting for ecology and the night sky, with input from other bodies including the Institution of Lighting Professionals (ILP) and the International Dark Skies Association (IDA). In 2021 we began discussions to deliver a new international online conference in May 2022, Responsible Outdoor Lighting at Night with conference partner, Asst. Prof. Dr. Karolina M. Zielińska-Dąbkowska.

At the end of September, I was delighted to be invited to the ILP's Build Back Better event at the House of Lords. I enjoyed spending time with ILP's President, Fiona Horgan, and we have continued to discuss future collaboration opportunities between SLL and ILP.

In October we held the In Conversation With... series, which featured unstructured conversations between various industry figures. I had the pleasure of having a conversation with Florence Lam from Arup, in which we discussed lighting for people and planet and how to reconcile the need for research into certain topics with the priorities of research organisations. Other conversations included Andrew Bissell (SLL President Elect) and Christopher Kyba, Dr Eleonora Brembilla and Dr Kynthia Chamilothoni, Roger Sexton and Michael Grubb, and Dr Shelley James and Jelmer Sanders.

In December we held the SLL Young Lighter finals online. 2021 marks the 27th annual SLL Young Lighter competition and the second year that the finals have been held online. As usual the standard of participants and presentations was very high. We continue to be hugely impressed by the talent and innovation of these young people entering the lighting profession. The finalists were Maria Englezou, María Teresa Aguilar Carrasco, Remedios María López Lovillo and Verity Rose. Maria Englezou was awarded first prize for her talk entitled *Do we need to change the design of healthcare facilities rooms?* After the presentations, the SLL was joined by special guest speaker and SLL Young Lighter for 2018, Emma Beadle MSL. As the judges deliberated, Emma reflected on her winning entry from 2018, *Children's Utopian Visions of the City: co-designing lighting masterplans through play and exploration*. Emma called upon the lighting community to share what they love and engage with the next generation of lighting professionals through creative co-design.

I would like to congratulate Andrew Bissell, who will be a great President in 2022/23. Andrew will be supported by the effective team of the President Elect and Vice Presidents to continue our great work to promote the art and science of light and lighting, for the benefit of the industry and the public at large.

Dr Ruth Kelly Waskett FSL, SLL President 2021

Finance report – 2021/2020 comparison

2021 proved to be another challenging and uncertain year for the the Society and the lighting industry at large.

The activities undertaken by the Society of Light and Lighting across all regions was maintained with the majority of events, as in 2020 taking place online. The Society was able to provide new and updated technical publications, research and technology programmes and educational support for all of its members and the public at large.

The most significant changes between the 2020 and 2021 accounts relate to delegate income, sponsorship and venue hire. The 2021 budget included income from sponsorship and delegate payments at in-person events. With so much uncertainty surrounding hosting in-person events the Society was unable to visit the regions as it had intended.

This loss of income was offset by controlling expenditure relating to physical events by reducing venue hire, travel and accommodation and other associated costs

The continued support of the Society's Sustaining Members and Sponsors in Partnership who delivered the spring LightBytes series enabled the final result to be a surplus of £33,322 to the overall balance of the Society.

The figures in this publication are taken from the CIBSE Statutory Accounts.

	2021	2020
Income		
Membership	9,812	9,655
Subscription Company	18,234	16,866
Publication Sales	15,155	16,260
Delegate Fees	3,712	8,102
Sponsorship	7,000	18,000
Sundry Income	3,361	2,657
Total Operating Income	57,275	71,539
SLL Subscription Income	39,596	52,082
Expenditure		
Editorial & Abstract Fees	31,617	29,782
Cost of Sales - SLL Publications	1,875	1,104
Conference Fees	3,000	3,279
Advertising	0	0
Prizes & Awards	9,106	5,700
Consultant Fees	330	605
Postage	2,580	3,041
Printing	9,536	10,034
Subscriptions & Donations	1,450	1,429
Travel & Subsistence	68	281
Members Travel Expenses	0	2,920
Bank & Credit Card Charges	3,966	4,495
General Expenses	21	0
Total Direct Costs	63,549	62,669
SLL Accounts		
Opening Balance: 1st of Jan	339,391	278,439
Surplus / (Loss) in year	33,322	60,952
Closing Balance: 31st of Dec	372,713	339,391

Society Events

As in 2020, the majority of SLL events were held online and provided accessible CIBSE Accredited CPD to members and the public irrespective of their location.

In January, Sophie Parry FSLL, Chair of the SLL Technical and Publications Committee presented the SLL & CIBSE Home Counties North East: Emergency Lighting - First Principles of Design, Specification and Ownership.

In February, Ruth Kelly Waskett FSLL, SLL President Elect was joined by Zoe De Grussa who works in collaboration with the British Blind and Shutter Association and Neil McLean, European Standards Leader for Lutron Electronics to deliver the webinar: Managing Daylight and Sunlight in Buildings to Work for People.

The SLL & CIBSE North West with SLL Regional Representative Giorgos Kourtelis MSLL hosted the online event: DIALux Evo Update with speaker, Friedrich Bremecker, President of DIAL America Inc.

March was a busier month for webinars with the SLL: Good Indoor Lighting Makes People Healthy and Happy event with speakers: Jan Denneman, Chair of the Good Light Group, Ruth Kelly Waskett FSLL and Peter Raynham FSLL, Professor of the Lit Environment, Bartlett School of Environment, Energy and Resources, Faculty of the Built Environment, UCL.

The CIBSE #GrowYourKnowledge series hosted a webinar titled What You Should Know About Lighting and Facilities Management. The presenter was Sophie Parry FSLL, lead author of LG20: Lighting for Facilities Management.

David Mooney FSLL, SLL Regional Representative for CIBSE HCSW region presented Designing Emergency Lighting Using RIBA Plan of Work.

The final online event in March was the SLL & CIBSE West Midlands webinar: Double Dynamic Lighting. This was hosted by SLL Regional Representative, Sonia Pepperrell FSLL with Henrik Clausen FSLL, Director of the Fagerhult Lighting Academy and Head of Research presenting.

In April, Sophie Parry FSLL delivered 2 events for SLL & CIBSE Ireland region: Emergency Lighting - First Principles of Design, Specification and End-User Obligations and Lighting Guide 2: Lighting for Healthcare Premises. The

events were hosted by SLL Regional Representative Menekse Kaya MSLL. Sophie and Menekse delivered events through to December including: Electric Lighting Requirements in WELL v2, Commissioning of Lighting Installations, Lighting for Facilities Managers, Indoor Lighting - Change is Afoot and Lighting for 2050 - Net Zero Carbon.

Also in April, the SLL held a four-part Light Bytes series based on the theme Minimum Energy, Minimum Resource, Maximum Comfort. In each of the first three sessions, the speakers Helen Loomes (Trilux), Tim Bowes (Whitcroft) and Steve Shackleton (Zumtobel) presented, followed by a panel discussion with all three speakers. In the fourth session, there was a roundtable panel discussion on the topic of Lighting and the Circular Economy with Emilio Hernandez and Mark Ridler along with the other speakers from the first three sessions.

In May, Helen Loomes FSLL was joined by Manuel Spitschan Ph.D, Professor Debra J. Skene B Pharm, MSc, PhD, Professor Timothy Brown BSc, MRes, Ph.D. and Professor Steven W. Lockley Ph.D to discuss the Recommendations for Practical Applications for Melanopic Lighting Design.

The SLL collaborated with the IES and took part in their global event Light for Life. The event topic was Moving to a Circular Economy in Lighting with speakers Bob Bohannon FSLL, SLL Immediate Past-President and Kristina Allison MSLL, Chair of the SLL Education Committee. Bob and Kristina were the CIBSE TM66: Creating a Circular Economy in the Lighting Industry publication Project Lead and Project Manager respectively.

The SLL & CIBSE West Midlands webinar: DIALux Evo and DIALux 4 - What to Use and Why was presented by Iain Macrae FSLL and hosted by SLL Regional Representative Sonia Pepperrell.

SLL & CIBSE South West webinar: Luminaire Specification was hosted by Bonnie Brooks MSLL, SLL Regional Representative with Sarah Taylor: Senior Project Engineer, Fagerhult Lighting, Pete Mardell: MSLL, Senior Designer, Arup and Richard Hall: Co-Founder, Spektd

At the last event in May, the Society welcomed new President, Ruth Kelly Waskett FSLL into the role at the online SLL AGM, Awards, and Presidential Address. Following the formal proceedings, the Society celebrated the achievements of

its members and the lighting community, with its annual awards. Immediate Past President, Bob Bohannon reflected on the challenges and achievements of the previous year before handing over the virtual floor to Ruth, for her inaugural address as President of the Society of Light and Lighting.

In June, SLL Regional Lighting Representative Menekse Kaya MSLL hosted the SLL & CIBSE Ireland webinar: The Vision with Kerem Ali Asfuroglu, Founder of Dark Source.

SLL Regional Representative, Giorgos Kourtelis MSLL hosted the SLL & CIBSE North West webinar with Mikki Kunttu, Finnish lighting designer, set designer and screen content designer for theatre, live entertainment, television and visual arts.

To round off June, SLL Regional Representative, David Battersby MSLL hosted the SLL & CIBSE Yorkshire webinar: Luminaire Design for the Circular Economy with speaker Roger Sexton FSLL from Stoane Lighting.

July was a quiet month with many taking annual leave, however SLL Regional Representative Chris Dicks MSLL hosted the SLL & CIBSE Home Counties North West Webinar: Bats - Why Dark Skies are Important with speakers: Keith Cohen, Consultant Ecologist and Andrew Biseell FSLL, Director of Lighting Design for Cundall and SLL President-Elect.

The events returned after the summer break with the SLL & CIBSE Merseyside & North Wales webinar: Lighting the Royal Liver Building. The event was hosted by SLL Regional Lighting Representative, Jiangtao Du MSLL with speakers: Lauren Blow, Senior Lighting Designer and Anna Forrester, Lighting Designer at Arup.

Also in September the SLL hosted the webinar: The interface of ecology and lighting design with speaker Catherine Perez Vega, Interdisciplinary Designer and Researcher.

Friedrich Bremecker, President of DIAL America Inc, returned to present SLL & CIBSE North West webinar: DIALux evo 10 and Emergency Lighting Update hosted by SLL Regional Representative, Giorgos Kourtelis MSLL.

The 'SLL, In conversation' series began in October with Ruth Kelly Waskett FSLL and Florence Lam FSLL, Global Lighting Design Director, Arup discussing the role of daylight and electric lighting in supporting human health, wellbeing, and a sustainable future, along with their personal views and hopes for the future of the lighting industry. The series continued with contributors: Andrew Bissell FSLL and Dr Christopher Kyba, Roger Sexton FSLL, Stoane Lighting and Michael Grubb FSLL, Creative Director of Michael Grubb Studio and to end the 2021 series, Dr Eleonora Brembilla and Dr Kynthia Chamilothoni

and Dr Shelley James and Jelmer Sanders. The series was delivered in association with Signify and continued in 2022.

The presentation: Lighting Lessons from the Ends of the Earth was held online with Haniyeh Mirdamadi and Martin Valentine about lighting on the British Antarctic Survey and a conceptual Martian habitat.

SLL Regional Representative Matt Walsh MSLL hosted the SLL & CIBSE South West in-person event: Lighting for the eye and brain with speakers: Dr Shelley James, Lumenologist and founder of Age of Light Innovations and Dr Denize Atan, Senior Clinical Lecturer at Bristol University & Honorary Consultant in Neuro-ophthalmology at the Bristol Eye Hospital.

SLL Ready Steady Light in association with Rose Bruford College returned in October. 15 teams took part in the event to create exterior lighting installations with 6 luminaires and only 3 hours to complete. Team Michael Grubb Studio won the Technical Award, Team Franklite won the Artistic Award (supported by the IALD) and Team MS Lighting Design won the Peer Prized, a much-coveted award judged by the contestants taking part.

In November, the SLL & CIBSE Home Counties North West delivered the webinar: Exterior lighting for people with Professor Steve Fotios with SLL Regional Lighting Representative, Chris Dicks MSLL and Steve Fotios FSLL, Professor of lighting and visual perception at the University of Sheffield.

The SLL was delighted to welcome the award winning Eleuthera Deko for her webinar Lighting the Acropolis.

The final of SLL Young Lighter 2021 was held online. Maria Englezou was the winner with her paper: Do We Need to Change the Design of Healthcare Facilities Rooms.

In December, the SLL hosted a webinar: Building a Martian House. Designed by specialists in the fields of space exploration, extreme environments and sustainability, the webinar asked what can we learn about lighting from the Martian House project? The speakers were: Dr Robert Myhill, from the University of Bristol, artists Ella Good and Nicki Kent and Tim Bowes MSLL, Head of Lighting Application at Whitecroft Lighting.

CIBSE TM66: Creating a Circular Economy in the Lighting Industry was launched in October and in December, CIBSE hosted a webinar as part of the Grow Your Knowledge series. Bob Bohannon and Kristina Allison gave the presentation.

All 2021 webinars can be watched on demand via the Events button on the homepage of the SLL website.

Awards



Maria Englezou named SLL Young Lighter 2021



The Leon Gaster Award was awarded to Timur Dogan (pictured left) & Daniel (Ye Chan) Park (pictured right) for their Testing the residential daylight score: Comparing climate-based daylighting metrics for 2444 individual dwellings units in temperate climates (LR&T, Volume 52, Edition 8)



The SLL Regional Award was awarded to Katerina Konsta, former SLL Regional Representative for CIBSE North West



Recognising outstanding service to the Society, the Lighting Award went to John Aston FSL



Honorary Fellowship was awarded to Geoff Cook



The President's Medal was awarded to Florence Lam



The Walsh Weston Award went to Adrie De Vries (pictured), Yon Sueman and Yvonne de Kort. Teasing apart office illumination: Isolating the effect of task illumination on office workers (LR&T, Volume 52, Edition 8)

Officers of the Society 2021

Executive

President: Ruth Kelly Waskett

President Elect: Andrew Bissell

Vice President Regions: Helen Loomes

Vice President External Affairs: Dan Lister

Immediate Past President: Bob Bohannon

Hon Treasurer: Chris Tiernan

Technical & Publications Chair: Sophie Parry

Education Chair: Kristina Allison

Membership Chair: John Aston

LR&T Editorial Board Chair: Teresa Goodman

Marketing & Communications Chair: Eliot Horsman

Events Chair: Alexandra Kalimeri

CIBSE Board Representative: Kevin Kelly

Council

Executive Committee:

Elected Members: Sophie Parry, Eliot Horsman, Karoliina Helin, Emma Beadle, Carla Piatti and Katia Kolovea

Regional Lighting Representatives:

Australia and New Zealand: Andrew Foley & Nigel Cross

Hong Kong: K Y Leung

Home Counties North East: Austin Williamson

Home Counties North West: Chris Dicks

Home Counties South East: Giovanbattista Cannella

Home Counties South West: David Mooney

Merseyside and North Wales: Jiangtao Du

North West: Giorgos Kourtelis

Northern Ireland: Jim Patton

Republic of Ireland: Menekşe Kaya

Scotland: Tony Ownsworth

Southern: James Poore

South West: Matthew Walsh

South Wales: Richard Bullock

West Midlands: Sonia Pepperell

Yorkshire: David Battersby

East Anglia, East Midlands, North East: Vacant

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The Society of Light and Lighting is a division of the Chartered Institution of Building Services Engineers.

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