AUSTRALIAN SMART LIGHTING SUMMIT 2019

Endorsed By
CITY OF MELBOURNE

Knowledge Partner
Ironbark Sustainability

28-29 August 2019
Melbourne Convention & Exhibition Centre
Melbourne, VIC, Australia

lightingconference.com.au

AGENDA

Day 1 - 28 August 2019

🕐 **08:00 - 08:50**
REGISTRATION

🕐 **08:50 - 09:00**
MC OPENS

🕐 **09:00 - 09:30**

This speed networking session will allow delegates to introduce themselves and swap business cards with those they are seated with and other summit attendees.

🕐 **09:30 - 09:50**

Opening Address by City of Melbourne

Ian Dryden, Principal – Industrial Design, City of Melbourne

🕐 **09:50 - 10:20**

Lessons from Los Angeles – Benefits of Connected & Smart Lighting

Kerney Marine, Assistant Director - Bureau of Street Lighting, City of Los Angeles, USA

🕐 **10:20 - 10:50**

Chicago's Smart Lighting Program

- Installing better quality and more reliable LED light fixtures on streets, alleys and viaducts to increase safety, reduce energy costs and improve the environment
- Implementing a connected lighting management system that will send alerts when maintenance is required
- Anticipated to reduce light pollution and lower energy consumption for the City of Chicago

🕐 **11:20 - 11:40**

Smart Lighting as A Foundation for A Smart City

Adam Beck, Executive Director, Smart Cities Council Australia New Zealand

🕐 **11:40 - 12:00**

Delivering Smart Technology to the NT

Through joint funding totalling $10M, the City of Darwin is undergoing a large-scale "smart" upgrade. Contributing to the growth of businesses and increase in partnerships in the area, this project is also anticipating a 50% reduction in energy consumption.

- City Centre street lights will be upgraded to LED smart lighting
- Installation of sensors for vehicle and pedestrian movement analysis
- Smart parking sensors to improve accessibility for real-time parking and future planning

Maz Khosravi, Project Portfolio Manager Innovation, City of Darwin

🕐 **12:00 - 12:20**

Smart Lights, Smarter Parking

- Employing intelligent lighting within parking lots allows for building operators to monitor and provide real-time data.
- Enabling sustainable lighting sensors that detect people and vehicle movement allows for a reduction in energy costs and a flexible, low-maintenance system to be put in place.

🕐 **12:20 - 12:40**

Exploring a Smart Network – Adelaide's Smart Parking Project

- Following an initial trial installation in the City of Adelaide, the council is launching cross-communication technology to monitor street parking in the region
- Through newly installed in-ground and electrical pole sensors, residents can use the Park Adelaide app to locate an available space
- Street lighting poles are used to house SmartSpot communication relays

🕐 **12:40 - 13:40**
LUNCH BREAK

🕐 **13:40 - 14:00**

Redefining the Modern Landscape

As cities delve deeper into the digital age, councils must adapt to best serve the needs of its inhabitants. Intelligent street lighting allows for the integration of advanced technology that can monitor environmental elements and connect to a larger network that can be collected for analysis.

🕐 **14:00 - 14:20**

City of Casey – Smart Parking in Bunjil Place

Following the implementation of just under 1,000 vehicle detection sensors, the Bunjil Place precinct will use wireless communication to collect and distribute traffic data whilst simultaneously making it easier for residents and visitors to locate local parking spots.

🕐 **14:20 - 15:05**

PANEL DISCUSSION: Myth-Busting

What is the Role of the AER, AEMO, AEMC, NER, COAG and Other Key Federal Players in Smart Lighting?

Stakeholders are understandably left confused when it comes to the role of the leading regulators and market operators in Australia's energy market. The broader national debate and confusion around electricity prices, reliability, emissions reduction and market operation are a good analogy to the confusion around relevant roles in relation to smart lighting and LEDs.

From councils starting their smart lighting journey to those who have been around for decades, it is not uncommon for hours wasted seeking "lighting approval information from AER", "an understanding of the latest technology from AEMO" or "an update from AEMC on the latest in Type8 metering and dimming". All of course are questions asked to the wrong organisation

If this sound like you or a previous version of you, come along to this session we get all the key stakeholders together and ask them about their relative roles and responsibilities in relation to smart lighting, smart cities, metering, rules and regulations. Bring your questions… or get your questions into us in advance!

Facilitated by Paul Brown, Australia's most experienced lighting expert who has worked with councils and national regulators and operators for decades.

Plus register your interest for the Smart Lighting Summit now and we'll send you a 2-page "cheat sheet" in advance! Prepared by our knowledge partners, Ironbark Sustainability, it explains the role of each stakeholder in relation to smart lighting.

David Ripper, Senior Metrology Engineer, Australian Energy Market Operator (AEMO)
Paul Brown, Managing Director, Ironbark Sustainability

🕐 **15:05 - 15:35**
TEA BREAK

15:35 - 15:55

Creating the Foundation for A Smart City

- As cities transition from the initial LED rollouts, councils have more leeway to implement effective and sustainable smart lighting applications.
- With over 50% of the world's population, municipalities must work together to establish a smart city framework through the combined application of advancing technology.
- The infrastructure of a street lighting network is an idea foundation for this growth

15:55 - 16:15

Challenges for Integrated Lighting Systems

Working within a budget whilst upgrading your technology can be a draining and time-consuming task, there is no single system that will suit every region.

- When addressing the process of integrating a connected smart lighting system, the initial challenges lies with the budget, how much are we allowed to spend on upgrade and upkeep?
- Do we need all sorts of environmental, sound, traffic and waste monitoring capabilities?
- Why are we implementing these changes? Is this beneficial to the council and its residents?
- Are we planning for long term use and future advancements?

16:15 - 16:55

Panel Discussion – Identifying Connected Lighting Applications Within Council

16:55 - 17:05

Delegate Choice Awards

17:05 - 17:15

Address by Cocktail Sponsor

17:15 - 17:20
MC CLOSES

17:20 - 18:20
COCKTAIL NETWORKING FUNCTION

🕐 **18:20 - 19:50**
[CITY LIGHTS TOUR](#)

Day 2 - 29 August 2019

🕐 **08:25 - 08:55**
REGISTRATION

🕐 **08:55 - 09:00**
MC OPENS

🕐 **09:00 - 09:30**

Speed Networking

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🕐 **09:30 - 10:00**

Future - Improving Our Wellbeing with Artificial Lighting Design

The word future is filled with vast potentialities. When we imagine the future, many of us think about innovation, how our lives will be improved, and where we will be. Following this logic, let's take a look at one of our symbolic ideas involving the future: life on Mars.

Planning life on what once could have been a twin Earth, and what might one day become a twin again, forces us to think about all the facets above – the hope and the fear, the past and the opportunity.

The is no doubt humans will settle on Mars one day, it is only a matter of time and the effort required to test our imaginations.

- What conditions are essential for life to survive on a different planet?
- How would humanity maintain the mental stability and physical activity to be able to thrive off Earth?

Light it Design is currently involved in research on how to improve our wellbeing with artificial lighting design on Mars (and on Earth). *Light it Design* will provide a perspective on type and location of settlements for Mars and how lighting will regulate life from street lighting to residential lighting on the new Planet.

Raffaele De Vita, Chief Architect of Light, Light It Design Pty Ltd

🕐 **10:00 - 10:20**

South Australia and the 180 Degree Change – Working With Distributors

SA has traditionally lagged behind other states in Australia in smart lighting. The relationship between key public lighting stakeholders has often been sour as power imbalances, spilt-incentives and disagreements played out behind closed doors and occasionally in public.

However, the last 3 years has seen a transformation, ever since a few local government officers and managers from Charles Sturt and Marion started working with a group of like-minded councils, secured some funding from the LGA and developed the *Transitioning to Safe and Sustainable Public Lighting* strategy and business case.

Over the next few years representatives from Charles Sturt, Marion and Onkaparinga met with SAPN under the guise of the Safe and Sustainable Street Lighting (SSSL) Bulk Replacement Project to develop LED tariffs and terms and approved technology and improve relationships. Once relationships improve, anything can happen.

🕐 **10:20 - 10:50**

Lighting Up The Apple Isle

Hannah Snape, Project Officer, Ironbark Sustainability

🕐 **10:50 - 11:10**

Alight at Night – Interactive Light Installations

- Creating captivating visual installations by intertwining public involvement and smart lighting fixtures.
- Outdoor lighting-based artwork serves the public by encouraging community involvement and communication whilst reinforcing a sense of safety, comfort and elation

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🕐 **11:10 - 11:40**
TEA BREAK

🕐 **11:40 - 12:00**

Bringing the Latest Smart Lighting Applications to Central and Southern NSW

🕐 **12:00 - 12:20**

Moreton Bay Wildlife Sensitive Lighting Design

Moreton Bay are looking at technical specifications for Wildlife Sensitive Outdoor Lighting. This specification sets out requirements for the technical performance, design, luminaire selection and operating procedures of public lighting in the Moreton Bay Region in order to reduce or eliminate the impact of public lighting on fauna.

*Bernadette May, Senior Environmental Planner, Moreton Bay Regional Council

🕐 **12:20 - 13:00**

Panel Discussion: Blue Light - Green Light or Red Light? One Year On!

Alexi Lynch, Business Manager, Ironbark Sustainability
Dr Christopher Lidman, Head of National Facilities Support, Australian Astronomical Observatory
Dr Therésa Jones, Senior Lecturer - School of BioSciences, University of Melbourne

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🕐 **13:00 - 14:00**
LUNCH BREAK

🕐 **14:00 - 14:30**

Driving, Visibility And LED Streetlighting: Findings From On-Road Studies

Dr Gillian Isoardi, Lighting Scientist, Light Naturally
Prof. Joanne Wood, Faculty of Health, School – Optometry and Vision Science, QUT

🕐 **14:30 - 14:50**

ACT Smart Street Lighting Deployment

🕐 **14:50 - 15:30**

Panel Discussion – Cybersecure Systems

🕐 **15:30 - 16:00**
TEA BREAK

🕐 **16:00 - 16:20**

Bundaberg's Low Glow Initiative: Utilising Urban Heat Maps to Improve the Survival Rates of Marine Turtles

- Urban glow sensors will be deployed to measure levels of light pollution in urban areas along the Bundaberg coast; leveraging open data and smart technology to reduce urban glow
- Creating a real-time platform to raise community awareness of light pollution affecting marine life and to guide the deployment of smart lighting solutions, including motion sensor activated LED lighting

🕐 **16:20 - 16:40**

Benefits of Connected Technology

Connected lighting systems offer councils a greater coverage with data collection and community collaboration whilst improving reliability and efficiency.

🕐 **16:40 - 17:00**

Understanding Sensor Capabilities

Smart cities rely on interconnected devices to improve their available services and to provide real-time data. By using street lighting fixtures as a foundation for an array of sensors, councils are given a more astute look into how to solve interconnected problems. Using sensors to monitor weather, traffic, air quality etc, can assist in informing fundamental city services like traffic regulation, safety and emergency systems.

🕐 **17:00 - 17:05**
MC CLOSES

Agenda is subject to change
*Speakers to be confirmed

An Event by:

empowering knowledge

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