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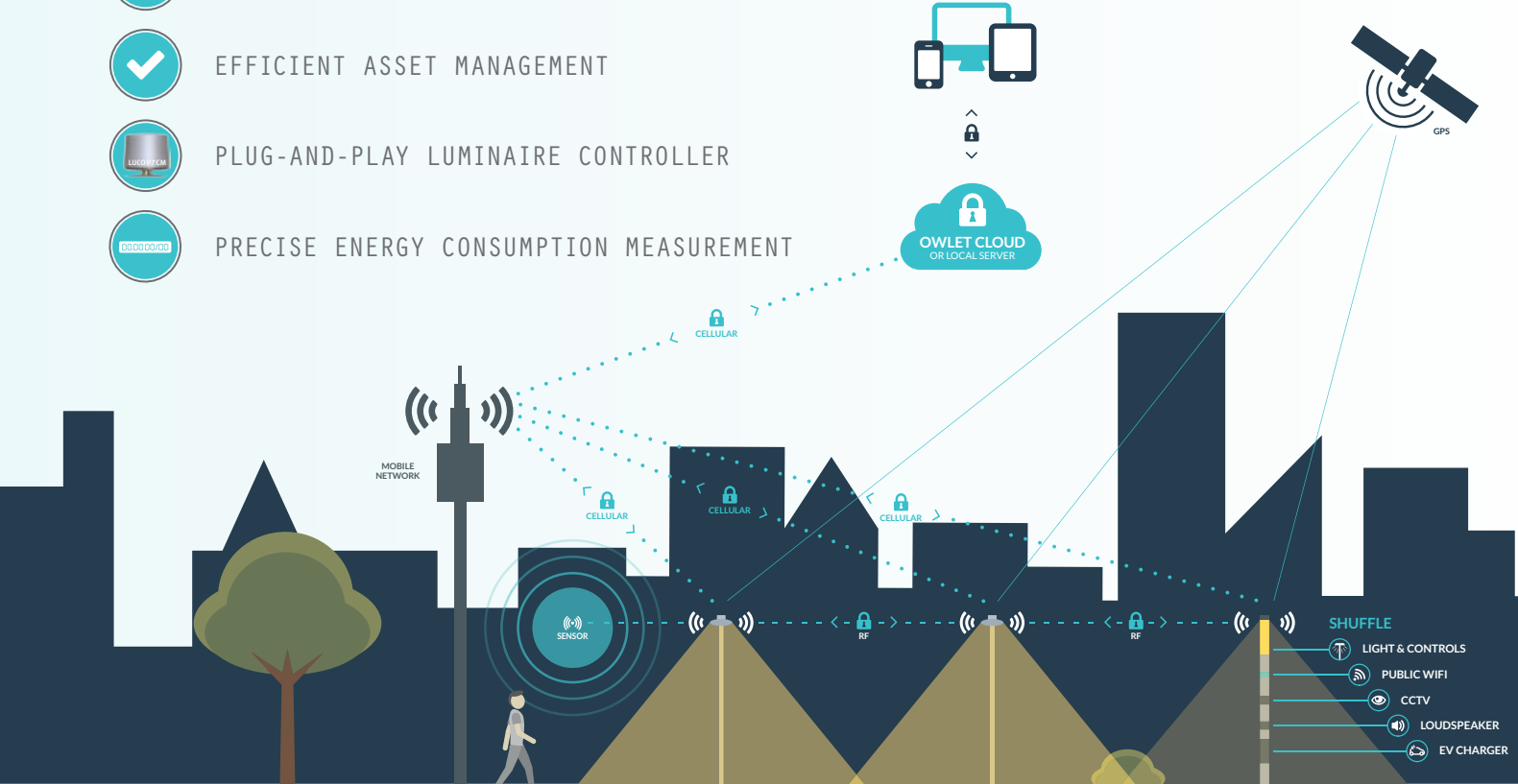
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## Dear Readers,

Happy mid-year! Hope the first half of 2017 have been a stunning ride for you. We at Lighting Today are looking mighty forward to the upcoming light shows that will be gracing our shores for the latter half of the year. Do come say hi at our booth at both BEX Asia 2017 and LED + Light Asia 2017!

Our cover story features the impeccable Steigenberger Hotel at the Business Bay District in Dubai. Situated in Dubai's Business Bay District, this cosmopolitan hotel with a German touch is the first property from the Deutsche Hospitality brand in the GCC region. Featuring elegant and classy designs with aristocratic ambience, the newly opened 5-star Hotel meets the demands of leisure combined with German precision and efficiency. The pride and joy of the hotel rests on its rooftop balcony, aptly named The Backyard. Intrigued? Take a read!

For facades and landscapes, our choice piece features a spectacular lighting installation by L&E for the Kian Un Keng Shrine. The lighting design at this area is done by using red color, which is an auspicious color from Chinese beliefs to cover up the shrine. Red conveys light, warmth, strength and glory, while the dragon sculpture is lit with white light to stand out as the Chinese considers that dragon is a symbol of strength, power and mightiness. Read on to find out more about this ambitious project.

Spatial envelopes shines a spotlight on Vossloh-Schwabe's newest illumination project for the Helly Hensen brand store. Interalighting developed a track light Optima ORIGI LED 38 W, using a Vossloh-Schwabe LED module and control device (LED driver). Stable luminous flux and a five-year warranty, high colour rendering index, a large luminous efficiency and reliable components. All this makes this the track light the optimum choice for shop lighting. Hop over to learn more about this technical piece.

Have something lighting-related you think we would love? Send them in! We welcome submissions and would be happy to feature pieces from loyal readers as long as it fits snugly into our theme. To end off, we wish you a graceful stroke into the finishing pastures of 2017.

*Nicole Lee*

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# HOW SMART IS YOUR LIGHTING DESIGN?

A look at how new smart technology is integrating into our lighting design

First there was just incandescent light, quite an invention at the time but not really something classified as smart, more an evolution of technology that was later followed by “energy saving” lamps, rebranded as “sustainable”, which most of the time is wrongly being interpreted by advocating lighting as producing lesser watts per square meter. But lighting is not designed for lux or energy meters, it is designed for people to see, to enjoy or socialise!

More recently light and lighting design was being (and still is in many cases) promoted as “human centric”, if anything it is a smart sales slogan invented by the manufacturers to provide potential clients a new buying incentive. After all we are all humans, aren't we?

But there are actually some smart functions within the human centric approach one of them being tuneable white light. Light that is being tuned to artificially reproduce the intensity and colours of natural daylight as it progresses during the day, from sunrise to sunset. It is said to have positive impact to our circadian rhythms, health and productivity, though to my understanding the jury is still out on the actual measurable effects. Today long haul intercontinental flights, hospitals, offices and schools are applications where tuneable white light is being introduced.

One of the smartest tuneable day lighting systems available today is an artificial lighting system that is capable of reproducing sun/day light for any longitude or latitude coordinate in the world. I have personally experienced it and the (visual) effects are amazing.

We all know that lighting is built up from red, blue and green light, mixed together it produces white light. Maybe lesser known is the fact that colours are related to different parts of our body and that specific colours have different “healing” effects on our moods and performances. Many have already jumped on this human aspect of lighting by introducing “smart” colour changing features to their lighting systems. Warm amber, blue and purple seems to be popular colours to help passengers on long haul flight cope with jetlag and fatigue, introducing a variety of these colours for different activities (welcome, take-off/landing, meals, relax, sleep, etc.) can now be experienced on all major airlines. One airline (Iceland Air) even goes as far as reproducing the Northern Lights also known as the Aurora Borealis in the cabin!

Today's lighting market is cut throat and crowded with LED cowboys roaming the markets to sell whatever LED's they can sell, unscrupulously. It's all about money and profits and one sales pitch is bettering the other. Smart features are now the latest trend; smart sensors, smart apps, smart watches, even IKEA has joined the fray offering smart lighting controls for the home.

Perhaps it is good to remind ourselves where we came from. Controlling the old incandescent lamp was simple, just switch. But the lighting technology developed and we have now arrived in the world of LED lighting complete with a complex world of hardware, electronics, software and digital controls. A lighting designer no longer has to deal with just lighting design, mastering (or at least understanding) control and content design are fast becoming equally important!

I should also mention the development of LiFi (Light Fidelity), a lighting based WiFi system that uses light rather than radio frequency for the use of data transfer. It is said to be much cheaper than WiFi and many times faster (Terra bytes instead of Giga bytes!). The range of the light spectrum is also many times broader than the radio frequency spectrum. The obvious draw back at this stage is that it needs the lighting to be operational to work, which in daytime situations or in interiors with

lights switched off is a problem.

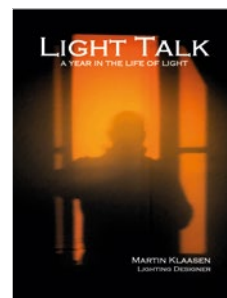
Smart lighting systems in interiors involve can involve simple functions such as auto-adjusting lighting levels to depending available ambient daylight or presence detection. In more sophisticated smart systems we find integration of all kinds of sensors, GPS and LiFi that are linked to apps allowing direct and dynamic interaction with the occupants of the space providing site/ product information, helping with way finding or guide in case of emergencies. But these systems also offer monitoring options about the performance of the lighting system or feedback on system failures with the opportunity to act and adjust quickly. Pilot projects are under way in several retail / department stores around the world as well as some underground metro stations like in Paris.

In extriors we see the introduction of smart wireless systems in many cities around the world who have adopted a “smart city” approach. We find particularly the big manufacturers heavily involved by offering “free” test installations on stretches of roads to wet the appetite. Though many of these installations seem to be “politically motivated” and not necessarily cost efficient at first, they do appeal to the general public. There are definitely lots of merrits to smart city lighting strategies, specifically the development of smart poles that integrate many more functions then lighting alone.

Linked to a smart grid, these poles may have photo-cells, light or proximity sensors to regulate lighting levels (dimming) or provide on-demand lighting. Proximity sensors within a wireless network may regulate lighting when cars or pedestrians are approaching. At the same time the smart features provide real time tracking of energy consumption, lighting failure monitoring and may also be used to monitor traffic flow.

For me lighting design isn't pure lighting design anymore...you need to be realy “smart” these days to be able to coop with lighting design version 2.0.17!

Follow Martin's daily blog about lighting, Light Talk, at: <http://lighttalk.via-verlag.com>



Martin's Book, '**Light Talk, A Year in the Life of Light**'

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## PROLIGHT + SOUND 2017 DEMONSTRATES ITS IMPORTANCE FOR THE SECTOR - HIGH LEVELS OF INTERNATIONALITY AND SATISFACTION

Good visitor response to Prolight + Sound: following the record set last year, the International Fair of Technologies and Services for Entertainment, Integrated Systems and Creation once again registered a slight increase in the number of participants. From 4 to 7 April 2017, the fair welcomed 45,100 visitors from 139 countries. 950 exhibitors from 39 countries presented their latest products for the fields of lighting, sound and stage engineering, broadcasting and production technology, systems integration and AV media technology. “In many important international markets, demand for live entertainment has increased significantly, as has the number of elaborate corporate and customer events being held. Investments in modern event technology are being made all around the world and, as the international platform for the industry’s innovations, Prolight + Sound benefited from this positive business climate. Once again, the fair demonstrated how important it is for the individual segments of the event and media-technology sector to exhibit, network and exchange information together at the same time and place”, explains Michael Biwer, Group Show Director of the ‘Entertainment, Media & Creative Industries’ Business Unit of Messe Frankfurt Exhibition GmbH.

With 54 percent of visitors coming from outside Germany, Prolight + Sound was the global meeting place for the sector. After Germany, the leading visitor nations included the Netherlands, Italy, France, Belgium, China, the United Kingdom, Switzerland, Russia, Austria and Poland. 93 percent of visitors achieved their personal goals at the fair. Leading trade associations were also pleased with their results: “Following the comprehensive restructuring in 2016 and several subsequent improvements, the fair continues on its successful course. Some of our members have reported an increase in the number of international visitors to their exhibition stands this year. The fair has become an established networking venue for many associations from all over the world and is rightly known as the leading event for our sector”, said Randell Greenlee, Head of the Political and International Division of the German Entertainment Technology Association (VPLT). Joachim König, President of the European Association of Event Centres (EVVC) summarised saying, “Once again, Prolight + Sound has shown that it is the foremost



meeting place for the lighting and sound sector. The synergistic effects are extremely valuable for the annual general meeting of the EVVC, which is held every two years during the fair in Frankfurt. In addition to the innovations to be seen at the fair itself, the ‘International Event Safety Conference’, which takes place within the framework of the fair, has developed over recent years into a very important professional-development platform for members of the technical staff of our member companies.”

### Broad product spectrum and high levels of exhibitor satisfaction

The exhibitors of Prolight + Sound 2017 demonstrated the innovativeness of the sector with numerous new product lines – including impressive lighting, water and pyro effects, 4K laser projectors, ultra HD displays, high-performance media servers and programmable show drones. As in the past, LED modules were an important growth segment at Prolight + Sound 2017. Manufacturers are banking not only on smaller pixel pitches and brilliant colour reproduction but also, to an increasing extent, on user friendliness, robustness and energy efficiency. Digital network protocols continue to gain in significance in the audio and broadcasting segments. Numerous Ethernet-compatible product lines that support the Dante industry standard or similar audio-over-IP formats, from mixing desks and stage boxes, via loudspeakers and microphone systems, to conference solutions, were on show. Additionally, Prolight + Sound visitors could see an increasing number of innovations for creating immersive experiences that, in the case of visitors to theme

parks, exhibitions and museums, for example, blur the boundaries between reality and virtual perception, e.g., hardware and software for spatial-audio projects, full-dome attractions and hologram projection.

With an extensive range of products as well as numerous world premières and a high degree of internationality, Prolight + Sound was equally popular among both exhibitors and visitors. Key players from the sector confirm the significance of the fair: “Prolight + Sound is undoubtedly the most important fair for event technology and was a big success for us this year. And there are good reasons: here in Frankfurt, we meet all rental customers, from hobby users to leading production companies. At the same time, the head buyers of the big music dealers are also here. Particularly good this year was the echo from the Benelux countries, as well as the worldwide market as a whole”, said Arne Deters, Managing Director, db Technologies Deutschland. Jochen Frohn, Director of Business Development, L-Acoustics, was also pleased with the internationality of the event: “I would say that around 30 percent of our customers come from the German-speaking countries and 70 percent from countries around the globe. For us, the primary regions are West Europe, East Europe and Asia followed by the USA, Africa, Australia and South America. We regard Prolight + Sound as being indispensable in terms of both existing customers and making new contacts.”

Michael Herweg, CEO of SGM Germany, emphasised the significance of Prolight + Sound as a launching

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pad: "We develop our products with the dates of the fair in mind and begin production shortly thereafter. In our case specifically and for the lighting segment in general, business at Prolight + Sound has developed very well. It is also very good to see how the visitor level has reached an even higher standard of professionalism." This year, too, the fair was distinguished by its extremely balanced visitor structure, as noted by Marko Kraft, Sales Manager of Salzbrenner Media: "At Prolight + Sound, we reach exactly the people we need because, as a rule, our customers are a mixture of technical directors, sound engineers and planners who take the buying decisions for their individual fields."

#### Conference programme and new formats strike the sector's nerve

Against the background of technical progress, increasing expectations on productions and new legal requirements, on-going professional development is of great importance for everyone in the event sector. With the 'Prolight + Sound Conference' and the 'Eventplaza Conference', the fair was characterised by an extensive programme with more than 70 lectures, seminars and panel discussions. Many of them were held in English and over 2,600 visitors took advantage of this opportunity, an increase of around 40 percent compared to last year.

Additionally, Prolight + Sound was supplemented by several new event areas. For example, the 'Silent Stage' gave visitors the chance to learn about this new concept. Thus, event engineers and musicians could see how this innovative stage setup, which is designed to minimise noise levels on the stage, can contribute to improvements not only in the mix but also in the performance of musical acts. Numerous brands, including renowned manufacturers of in-ear monitoring, presented their solutions at this area: "The visitor response was very good and, for us as exhibitors, the plan was a complete success", said Markus Ganzmann, KLANG:technologies GmbH. "We wanted to demonstrate the advantages of the silent-stage concept for visitors and present our products under realistic conditions. For this reason, we initiated the 'Silent Stage' area together with Messe Frankfurt and other companies and played a key role in its conception and implementation", said Johannes Steger, Vision Ears.

Another première at Prolight + Sound was the 'Faces behind the Voices' multi-media exhibition, which introduced Germany's best-known dubbing actors and put the spotlight on professional dubbing production as part of the entertainment business.

Following its successful debut last year, 'DJCon' was held again at Prolight + Sound 2017. There, disk jockeys had the opportunity to find out about new products, attend lectures and workshops on DJing and DJ equipment and see some of their top colleagues in action.

As in the past, this year's Prolight + Sound was the venue for the presentation of several important awards. Thus, the Opus – German Stage Award was given for two projects: the winner in the 'Stage and Lighting Design' category was Rea Garvey's 'Get Loud Open Air Tour 2016'; in the 'Technical Realisation' category, the award was given for Ulrich Rasche's production of Schiller's 'The Robbers' at the 'Residenztheater' in Munich. The media installation at the head offices of Hilti AG in Liechtenstein was honoured with the Sinus – Systems Integration Award.

For the first time, Prolight + Sound was also the setting for the presentation of the 'Mondo\*Dr' Award, which spotlights outstanding permanent-installation products in several categories.

#### Strong trade-fair duo with valuable synergistic effects for the music and event sector

This year, Prolight + Sound was held concurrently with Musikmesse, International Trade Fair for Musical Instruments, Sheet Music, Music Production and Music Business Connections, from Wednesday to Friday, a day longer than in 2016. This turned Frankfurt Fair and Exhibition Centre into a get-together for the entire music and event sector and attracted around 100,000 visitors[1] from 144 countries. Altogether, 1,922 exhibitors[2] from 55 countries made presentations there. The conceptual development of Musikmesse and Prolight + Sound will be continued in the future and, to this end, Messe Frankfurt is in close, continuous contact with the associations and companies from the sectors represented at the fair.

For more information, visit [www.prolight-sound.com](http://www.prolight-sound.com).

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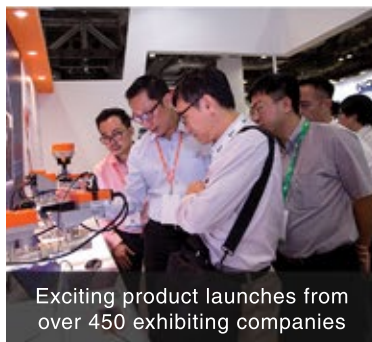
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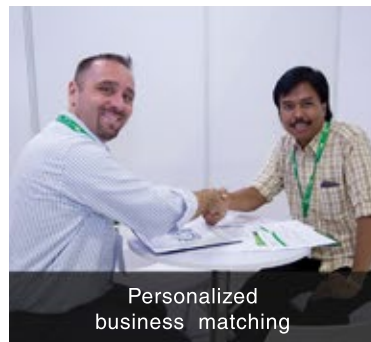
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## MUSIKMESSE 2017: VISITORS FROM 119 COUNTRIES AT THE INTERNATIONAL MEETING PLACE FOR THE SECTOR



Retailers, manufacturers, distributors, representatives of trade and industry and musicians and music fans from all over the world came together at Frankfurt Fair and Exhibition Centre from 5 to 8 April 2017. 56,700 visitors from 119 countries attended the event to discover the latest developments in the market, make contacts and participate in the extensive programme of events. “The musical-instrument market continues to be in a state of transition. We reacted to the changing circumstances with an optimised concept for the fair and are now continuing on this track. The echo from representatives of the various segments at the fair, as well as from our visitor and exhibitor polls, indicate a significant qualitative increase compared to last year. Moreover, we were able to reinforce the synergistic effects with Prolight + Sound by modifying the sequence of days. As expected, the discontinuation of the Musikmesse Sunday led to a decrease in the number of private visitors. Accordingly, one of our goals for the future will be to make visiting the fair more attractive for music aficionados on the Friday afternoon and Saturday. Overall, we draw a positive conclusion and will continue to work on a future-oriented trade and marketing platform in close cooperation with the exhibitors and associations”, says Michael Biber, Group Show Director, ‘Entertainment, Media & Creative Industries’ at Messe Frankfurt Exhibition GmbH.

972 exhibitors presented their products to an international audience of visitors. After Germany, the top visitor nations included the Netherlands, Italy, France, Switzerland, Belgium, the United Kingdom, Austria, Poland, Sweden and China. Additionally, over 20,000 music fans attended the events of the Musikmesse Festival, an integral part of the Musikmesse concept, with concerts by over 50 national and international artists, including Extrabreit, Oleta Adams & hr-Bigband, Till Brönner, Steve Stevens & Band, Branford Marsalis Quartet featuring Kurt Elling and many others, at venues throughout Frankfurt.

### MI associations see Musikmesse on the right track

To increase value added for all groups of visitors, Musikmesse was supplemented by new attractions and an expanded complementary programme of events. Together with the Musikmesse Festival, the fair offered over 1,000 events, from concerts and live performances to workshops and masterclasses. The echo from the sector was positive: “The Society of Music Merchants (SOMM) welcomes the comprehensive and on-going restructuring initiated in 2016. Thanks to the new concept, I am confident that we will be able to achieve a great deal. Change is clearly in the air. For German, European and international companies, Musikmesse in combination with Prolight + Sound ranks among the most important tools for business-to-business communication”, said SOMM Director Daniel Sebastian Knöll.

Other associations are also taking a positive view: “We are very pleased with business at Musikmesse. I met numerous retail colleagues at the fair. The traffic of visitors in the halls was good and the exhibition stands always busy. The Business Academy, which we took part in for the first time this year, is on the right track. In a nutshell: the sector agrees with the changes made to Musikmesse”, said Arthur Knopp, President of the Federation of German Music Dealers (GDM). The significance of the fair was also underscored by Gerhard A. Meinel, Chairman of the Federal Association of German Musical Instrument Manufacturers (BDMH): “Musikmesse in Frankfurt is a must for the German and European music industry, especially those from East Europe. We appreciate the high degree of internationality at the fair. We need this market place and hope that numerous market participants will use it in the future because this is the key to a thriving fair – on both the exhibitor and retailer sides.” This opinion was seconded by CAFIM President Claudio Formisano, “The Confederation of European Music Industries stresses the relevance of Musikmesse as the most important event for the MI in Europe. It is indispensable, today and in future, both from the point of view of business and also of education and culture.”

### Innovations at Musikmesse 2017

As always, the Musikmesse exhibitors demonstrated the innovative dynamism inherent in the sector. Clearly visible was the trend towards using new materials and production methods. Against the background of the exacting requirements of the Convention on International Trade in Endangered Species (CITES), a new thermos-energetic process was shown that makes it possible to use domestic woods for high-grade instruments. Also to be seen was the world’s first violin made with the aid of 3D printing technology. Moreover, more and more manufacturers are using carbon fibres to make musical instruments. Other companies are banking on the interaction of instruments and mobile devices, for example, to help people learn playing techniques. Also popular are hybrid instruments that combine the appearance and touch of analogue instruments with digital sound production.

Leading exhibitors underscored the relevance of Musikmesse for the sector: “Here, we make the most direct connection between us and the people who buy our products and I have even been able to beat my personal visitor targets for the fair. We are planning to take part again next year”, said Chris Martin, CEO, C.F. Martin & Co. Extremely pleased with the course of business at the fair was Alessio Gerundini, CEO of Italy’s long established Zero Sette Accordion Factory. He said, “This year’s event was the most exciting Musikmesse for many years. We had a

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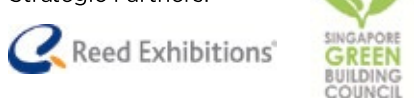
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large number of visitors from the first day. Both the quantity and quality were spot on. We made many new contacts and welcomed visitors not only from all over Europe but also from Asia and South America. This year, everything was perfect."

Dietmar Schuh, proprietor, Franz Sandner & Co, also praised the high degree of internationality at Musikmesse: "For me, the most important aspect is that I get to see my overseas customers. Within four days, I had the chance to speak to partners from Korea, Japan, Australia, Canada and the USA. As the international fair for the sector, Musikmesse is the number one for me." Ruud Corstjens, Marketing and Artist Support, Adams Musical Instruments, summarised saying, "We were very satisfied with Musikmesse 2017 and had a great show! We continuously had a lot of visitors at our booth including a lot of trade visitors in the first three days. We did really good business and it was absolutely amazing to meet so many musicians!"

#### **Praise for the extensive complementary programme of events**

An important aspect of the restructuring of the fair were experiential and educational formats, such as the Drum Camp launched in 2016, which featured performances and workshops by world-famous drummers. The concept resulted in the return of several renowned brands. "The Drum Camp was one of the reasons that we decided to exhibit at the fair again after a break of five years", said Frank Boestfleisch, Product Manager of Sonor. "We were pleasantly surprised by the course of business at the fair and are delighted with the number of visitors."

The Drum Camp format was transferred to the guitar segment for the first time this year – with success. "We were very taken with the concept of exhibiting in the immediate vicinity of the Guitar Camp. With highlights such as this, the fair generates huge value added for visitors", said Bastian Krämer, Marketing Manager of Meinl Distribution, about the Ibanez presentation at the show. No less than four concert stages provided the setting for appearances by national and international artists throughout the fair. And there was a festive mood among visitors to the Musikmesse Street Food Session between the stages on the outdoor area. The commitment shown by Messe Frankfurt struck a chord with many exhibitors: "The programme of events revolving around Musikmesse – in the exhibition halls, on the outdoor area with the food trucks and chill-out areas, as well as in the city – is simply



tremendous. This was my 19th Musikmesse and I can say that we have never had so many visitors to our stand. I appreciate these developments and hope that more major brands will decide to return to the fair in the future – after all, the visitors want to see these brands. I would say that everyone who wasn't here this year has really missed something", said Kai Böckmann, CEO, Trius Music, Orange brand distribution.

Furthermore, the fair expanded its thematic spectrum to include subjects from the world of music therapy and teaching. For example, the German Music Therapy Society took part in Musikmesse for the first time and presented its 'InstruMental Room' where visitors could participate in interactive events, such as sound journeys and 'DrumCircles'. At the new 'Discover Music' area, which was organised in cooperation with the Frankfurt Music Academy, visitors could explore the world of music making under expert supervision. "The children's gleaming eyes spoke for themselves: with 'Discover Music', we have helped generate an enthusiasm for music making at an early age. And this was confirmed by both parents and teachers at the event", said Stefan Zint of Frankfurt Music Academy.

To improve the business quality of the fair, Messe Frankfurt implemented a variety of measures designed to cut noise levels. For example, there were acoustic curtains between the individual product groups and sound-proof cabins for testing instruments. As last year, Hall 11.1 was reserved for trade visitors only and provided the ideal setting for presentations by exhibitors with a business focus.

This exhibition hall was also a magnet for the musical instrument trade thanks to the Business Academy inspired by SOMM with expert lectures especially for professionals from the sector. "This was our first time in the B2B Hall and it was very good for us. Our primary aim was to make contact with retailers. In the event, we spoke with business partners from all over the world and found exactly the right people for our business. Although we are well established in the sector, it is always good to make new contacts – and face-to-face meetings are significantly more effective than emails", said Stephen Wick, CEO, Denis Wick Products.

For the specialist retail trade, Musikmesse was an international get-together: "I found it very good that all important people were there despite several smaller exhibition stands. Hence, the trip to Frankfurt was worthwhile for me and I had one good discussion after the other at the fair. As a networking platform, Musikmesse is unbeatable", said Günter Zierenberg, CEO, Musik Produktiv. Martin Wiesenbauer, proprietor of Music World in Augsburg, confirmed the positive processes generated in the course of the reorientation: "The show continues to be an extremely important meeting point for our industry. This year, I got the impression that efforts are being made to create a magnetic effect with heroes, which still exist in our sector."

For more information, visit [www.musikmesse.com](http://www.musikmesse.com).

## ROFIN FOR INNOVATIVE SOLUTIONS FOR PRODUCT PACKAGING AT INTERPACK 2017



Coherent will showcase several innovative solutions for packaging at Interpack 2017. The new StarPack CW Hybrid addresses needs current needs in roll-to-roll processing with industry-leading features to address a broad range of packaging applications, such as cross web and web direction scribing and perforating.

### StarPack CW Hybrid - flexible cross web and web direction solution for medium size production

The StarPack CW Hybrid system covers the needs of medium size production for cross web and web direction processing. One or two lasers with up to eight 2-axis scanners allow any recipe of scribing in cross web direction and in web direction, as well as perforation of round micro-holes. Optomechanical improvements and StarFlex software makes for simplicity, convenience, speed, quality, and lower cost-of-operation.

### StarFlex - more flexible processing, shorter setup times

StarFlex GUI software provides a unified user interface, no matter which type of system, whether web direction or cross web, perforation or scribing. The software operates systems with up to 9 lasers, and speeds layout changes. Process parameters can be changed and optimized without the need to stop the system. Further, StarFlex software offers four different operating levels for users, administrators etc., to prevent inadvertent errors or reprogramming.

### StarMap, VisionPerfoControl and LaserPulseDetection eliminate trial-and-error, and improve product quality

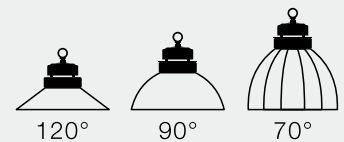
StarMap, optimizes Modified Atmosphere Packaging (MAP) provides the best perforation recipe for various packaging designs and products, and eliminates trial-and-error. VisionPerfoControl is a unique real-time monitoring system for hole diameter and circularity. LaserPulseDetection dynamically monitors laser output, resulting in improved product quality.

For more information, visit [www.rofin.com](http://www.rofin.com).

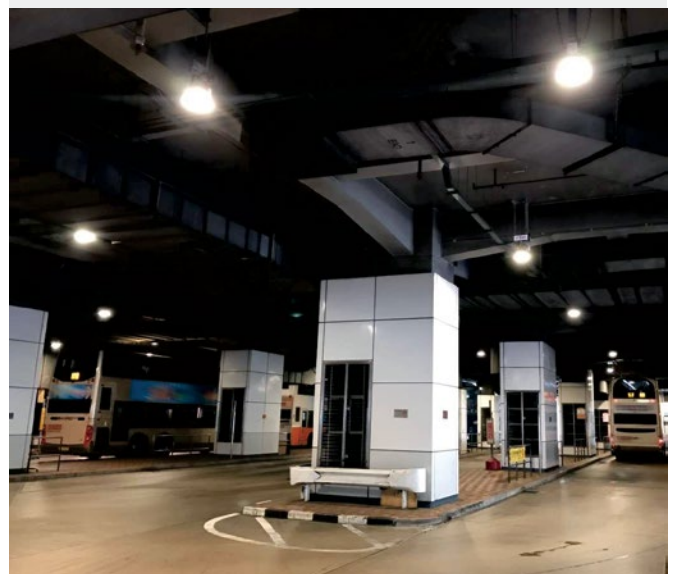
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## 7<sup>TH</sup> HEAVEN PLAYS BENEATH ELATION RIG ON “CHICAGO MUSIC CRUISE” ABOARD HARMONY OF THE SEAS



Chicago-based rock band 7th Heaven has been an entertainment staple in the American Midwest for 30 years. Despite its location in the U.S. heartland, the band does an annual cruise called the “Chicago Music Cruise” and this year played a week of shows on the largest cruise ship in the world, Harmony of the Seas, a Royal Caribbean smartship outfitted with energy-efficient Elation Professional LED lighting.

7th Heaven has been sailing with Royal Caribbean for years but this was the first year they were hired as a feature act. On a Harmony of the Seas cruise that sailed the Caribbean from January 7th to January 13th, the band played shows in the ship’s Royal Theater, the ship’s main entertainment space, as well as a final show in the Aqua Theater.

Band lighting designer Zach Scott, who has been with the band for six years and lights almost every show they play, an average of 250 a year, had large, in-house intelligent lighting rigs at his disposal. The ship’s main entertainment and relaxation areas all house Elation LED lighting. The Royal Theater’s house lighting rig comprises 32 Platinum Wash ZFX Pro™, 40 Satura Spot LED Pro™, 22 Platinum Beam Extreme 5R™, 6 Platinum Spot™, 8 Platinum Wash ZFX Pro XL™ and 19 ELED QA Strip™ fixtures. Although Zach was familiar with many



of the Elation lighting fixtures, there were a few in the rig he hadn’t yet had the opportunity to use. “This was the first time I got to use the Satura’s and ZFX Pros,” he stated. “I was super excited when programming with these fixtures because even though 7th Heaven is a rock band, we had to keep it tasteful to attract a large age group ranging from kids to senior citizens. These fixtures were a great choice for that.”

Most of what Zach used in the Royal Theater was hung on the upstage and midstage truss but he also had beams in the corridors on stage left and right. He programmed and operated the shows using a provided Hog 4 with a wing. Zach said he enjoyed the experience and sends a special thank you to Jonathan Wormgoor, head of lighting for Harmony of the Seas’ Royal Theater, saying “He helped me get the show where it needed to be.”

Harmony of the Seas first sailed in 2016 and is an environmentally friendly ‘smartship’ in which energy savings and energy efficiency take priority. Elation LED lighting systems can be found across the ship including in the Royal Theater, Studio B ice rink, Royal Promenade, AquaTheater, Boardwalk, FlowRider surf area, Solarium and pool area, as well as a host of onboard clubs, bars and lounges.

For more information, visit [www.elationlighting.com](http://www.elationlighting.com).

## RITTAL USE CASES WITH SIEMENS MINDSPHERE AND IBM WATSON IOT

Capturing, transmitting and processing data lies at the heart of the fourth industrial revolution. Consequently, cutting-edge connectivity is a must for equipment in factories and similar environments – for example to enable predictive maintenance. At Hannover Messe 2017, Rittal is highlighting the communication capabilities of its new cooling units and chillers. And by presenting these in conjunction with Siemens MindSphere and IBM Watson IoT, the enterprise offers insight into tomorrow's Industry 4.0 world.

Rittal's new Blue e+ cooling units and chillers consume an average of 70 per cent less power than their conventional counterparts. What's more, they raise the bar in M2M communication. Specifically, they can transmit key data to a smartphone quickly and simply via a NFC (near field communication) connection. And RiDiag III parameterisation and diagnostics software uses a USB interface or a network to support efficient system operation, deliver rapid support for maintenance and repairs, and enable in-depth diagnostics.

The new communications module (Com Modul) also allows the cooling units and chillers to communicate with any higher-level system via OPC UA, PROFINET, SNMP, Modbus RTU and CAN Master – enabling predictive maintenance, data analytics and more.

Rittal is presenting two examples of these products in use at Hannover Messe 2017 (the industrial trade fair in Hanover). These highlight the potential of the Blue e+ range's communication capabilities.

The first use case shows how Rittal's units interact with Siemens MindSphere. This cloud-based, open IoT (Internet of Things) operating system enables customers to develop their own Industry 4.0 applications. The platform is scalable, and can capture and analyse huge volumes of data – paving the way for smart-factory processes in energy data management and resource optimization, for example. Additionally, it harnesses analytics to predict when repairs and maintenance are required. This cuts costs and raises system uptime in comparison to work performed at predefined intervals. The solution also calculates the shortest routes for service engineers to take for these tasks – which can be particularly advantageous at facilities with a large number of machines. Plus, because up-to-the-minute data on each unit is available on the IoT platform, staff know what replacement parts they will require for the job in hand, eliminating the need for multiple trips.



The second use case examines how Rittal products interoperate with cloud-based data analytics system IBM Watson IoT. Watson's architecture is designed to rapidly process information, and employs machine learning algorithms to analyse growing data volumes with increasing precision – with the aim of finding better answers to a variety of challenges. A machine at Rittal's production plant in Rittershausen, Germany, is a prime example, demonstrating how this information is used to improve efficiency. These types of data analytics applications streamline maintenance and cut downtime – in other words, customers benefit from lower costs and higher machine availability. The solution's new technologies also open up new business opportunities, e.g. within the scope of smart maintenance contracts.

By means of these two examples, Rittal provides insight into tomorrow's Industry 4.0 world, and the new business models these will enable. And all this potential stems from the seamless transmission of data from sensors inside the cooling units and chillers to the cloud.

For more information, visit [www.rittal.com](http://www.rittal.com).

## GLP GT-1 PROVIDES PERFECT LIGHT FOR 'OUR SONG 2017'

On 9 February 2017 five candidates presented themselves before a specialist jury and a Europe-wide television audience, and fought for the right to represent Germany at the Eurovision Song Contest 2017 in Kiev.

With the eloquent Barbara Schöneberger presenting the show, former ESC winner Lena Meyer-Landruth sat next to Tim Benzko and Florian Silbereisen in the three-piece

jury. The show was broadcast live under the management of the NDR from the studios of Cape Cross Studio + Filmlichtgesellschaft mbH, one of Germany's leading suppliers of film and TV stage and lighting technology, in Cologne-Mühlheim.

The lighting design for probably the most important pop contest on German TV, came again from the hand of

Jerry Appelt, who is almost a fixture at the Eurovision Song Contest. In 2011 in Düsseldorf and 2012 in Baku he was already lighting designer of the Final shows. In addition, in 2013 he designed the lighting for the Junior ESC in Kiev and in 2014 he took over the lighting design for the preliminary German voting for the ESC – just to name the most recent ESC appearances.

The new GLP GT-1 hybrids, of which Jerry Appelt had specified a total of 52 pieces in his design, were extremely prominent and always in camera shot. “This lamp takes care of everything – design, performance, output and features,” enthused Appelt about the GT-1. “It’s the whole package that’s impressive: beam, spot and wash all combined in such a compact footprint. Thanks to its slim design and the absence of the classic base, the GT-1 can be perfectly integrated into a set without having to conceal the lamp. For this, it just seems too good, and with the new light source I do not have to worry about reliability issues.

“In fact, we did not have a single problem with the GT-1 from the first set-up day to the last minute of the show,” adds the lighting designer, who has been specifying GLP’s spot and wash lights for many years.



Equipped with a 440 watt discharge lamp, the GT-1 offers a unique zoom range of 3.5 to 56.7 degrees – equivalent to an impressive 22: 1 zoom ratio. This hybrid spotlight also features a CMY colour mixing system plus an additional colour wheel, eight rotating and 14 fixed gobos, a high-speed shutter and three rotating prisms.

The GT-1 is fitted with an auto-sensing power supply, and an internal battery makes the programming and addressing of the GT-1 possible remotely from the network. The compact baseless design completes the feature set of a lightweight fixture weighing just 25kg.

In conclusion Jerry Appelt is unconditionally positive: “We produced a great live show with great looks and we were completely satisfied. The GT-1 continues to be a realistic option for me.”

For more information, visit [www.glp.de](http://www.glp.de).

## WHITE LIGHT WAS CALLED UPON TO PROVIDE THE LIGHTS FOR THE PHILANTHROPIST



The *Philanthropist* has been delighting audiences across the globe since it first premiered at the Royal Court in 1970. It is now making a welcome return to the West End in a brand-new production at the Trafalgar Studios. Directed by Simon Callow, this latest version stars some of television’s brightest stars, including Matt Berry, Simon Bird, Lily Cole and Tom Rosenthal. Having already supplied shows at the Trafalgar Studios this year, White Light was called upon once again to provide the lights for *The Philanthropist*.

Written by Christopher Hampton, the play tells the story of Philip, a floundering professor of philology, who hosts a series of visitors with whom he discusses marriage, sex, anagrams and the meaning of life. Little do they realise that in the outside world the Prime Minister and his entire cabinet have been assassinated...The lighting designer is Olivier Award-winner Mike Robertson. He comments: “I remember seeing *The Philanthropist* many moons ago and being struck by the extraordinary coup de théâtre

at the beginning of the play. For this version, Simon has approached it with a really fresh vibrancy; whether it's the younger cast or the set. It feels like a very modern take on what is now a classic piece”.

This reinvention had an impact on Mike's design and he worked closely with set designer Libby Watson. He states: “What's brilliant about this set is that there is not a bad seat in the house and each one sees it from a different perspective. There is also a lot of clever trickery that occurs throughout. Therefore, my approach was to create a style of heightened naturalism. Whereas everything appears to represent reality in the theatrical sense, there is a slight change in the colour and quality of the source which hopefully makes the audience question what is the truth”.

Similarly, as the play is set in one room, Mike had to work alongside the practicalities of this. He states: “As there is a roof over the set, there's actually not that many places to put lights. Also it is white so if you are not careful it can become a giant mirror. Similarly, the stage is pushed out into the auditorium meaning this limited the space for units even further. That



said, my main consideration when choosing the rig was ensuring that it could colour mix, frame and make as little noise as possible”.

Mike drew on a mixture of ETC Revolutions, Martin MAC TW1s, ETC Source Fours and Philips Vari\*Lite VL3500Q Spots for his rig. He also added additional house lighting within the Trafalgar in order to further the fresh feeling of the performance. The show has now opened and will run until July 22nd.

Mike adds: “I've had a great time working on this revival alongside the warm staff at Trafalgar, particularly Michael Corcoran who is the venue's Head of Lighting. I am also grateful, as ever, to WL for providing top quality service once again and supplying brilliant equipment in record time”.

For more information, visit [www.whitelight.ltd.uk](http://www.whitelight.ltd.uk).

## “SANDRINO THE BUTCHER” BY ALESSANDRO LA SPADA ARRIVES IN LONDON

On display in the famous Harrods windows till May 10, 2017 Sandrino the Butcher is the first Art-Design project by Visionnaire, conceived by the designer Alessandro La Spada.

The capsule collection results from the lively imagination of La Spada and underlies a tribute to the work of his grandfather, a butcher and restaurant owner whose daily gestures have been transposed into a series of Art-Design pieces: the kitchen tools - cleavers, knives and hooks for hanging meat - have been released from their original functionality to become eclectic creations of pure aesthetic beauty.

The Steak stool features an original seat in red lacquered steel, anchored to a slaughter hook made in cast brass with galvanic golden finish. Three knives in different shapes support the seat.

The top of Never on Sunday console is made of red jasper with natural veins. A series of decorations and irregular chains in cast brass with golden finishes end with hooks, hatchets and knives. The feet of the console recall the ancient meat tenderizers.



An elegant lamp with red lampshade is hanged on the mirror, broken by a golden cleaver which has been stuck exactly to its middle - hence the name Cleaver Mirror. The symbolic launch of the kitchen tool generates tens of cracks, gently backlit with LED for a more scenic effect.

For more information, visit [www.marblepress.com](http://www.marblepress.com).

## LAMBERT & FILS FOR THE FIRST TIME AT SALONE DEL MOBILE IN APRIL 2017

Lambert & Fils will be flying to Italy in April for its first appearance at Euroluce, the lighting biennial hosted by Salone Internazionale del Mobile in Milan, two exclusive collaborations will be unveiled : one with Quebec designer Guillaume Sasseville, and the other with Parisian gallery Armel Soyer.

Lambert & Fils not only embodies the Made in Montréal spirit perfectly, but has also managed to become, in just a few short years, an important figure in lighting on the international design scene.

The studio is thrilled to also have been selected for The Visit, an in-situ installation curated by renowned duo Studiopepe. The Visit's chosen pieces will be exhibited in an apartment of the Brera Design District, where journalists and tradespeople will discover the best in contemporary design, staged in a unique way.

### Laurent 11: an exclusive edition for Armel Soyer

The Laurent collection has had a very good run since it launched in 2016. After a warm welcome at New York City's ICFF last May and at the Biennale Intérieure in Kortrijk, Belgium, in October, Laurent won an Interior Design Magazine's Best of Year Award for lighting and was mentioned among the 10 Best Product Designs of the Year in Azure Magazine.

This astonishing journey will continue in Milan. Not only will the whole collection be presented at Euroluce, but Lambert & Fils will also reveal the majestic Laurent 11, numbered and exclusively created for the design and decorative arts gallery Armel Soyer.

Located in Paris (with a branch in the Alps), Armel Soyer showcases the work of innovative designers and artists sharing a common quest for quality, inspiration, rarity and exception.

Revisiting the classic Bauhaus shape of the opaline hand-blown glass sphere, Laurent offers a variation on minimalist surfaces and volumes, with delicate spheres shining against the rigid nature of its anchors.

For more information, visit [www.lambertetfils.com](http://www.lambertetfils.com).



## DESIGN DAYS DUBAI COMPLETES ITS SIXTH AND MOST SUCCESSFUL EDITION IN ITS NEW LOCATION, D3

Design Days Dubai, held under the patronage of HH Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum, Crown Prince of Dubai, and in partnership with Dubai Culture & Arts Authority, closed its sixth edition on Friday 17 March reporting its most successful edition to date having attracted both the largest number of exhibiting design galleries and studios and a 10% year-on-year increase in visitor attendance.

Design Days Dubai (est 2012) is the only international collectible design fair in the Middle East and South Asia and one of Dubai's most-loved cultural events. The annual event presents a diverse cross-section of some of the world's most exciting highly-collectible design and installations, alongside a talks and workshop programme bursting with leading design personalities and industry experts.

Positioned as a fair of discovery, it welcomed its largest number of exhibitors, this year with the strongest representation of design from the UAE and region. In total, 50 exhibitors represented 125 designers from 39 countries

with more than 400 purchasable works – from furniture and lighting to decorative objects –displayed.

Design Days Dubai management cited the fair's new location of d3, the heart of Dubai's creative industries, and refreshed layout and most extensive programme of talks and workshops as contributing factors to its high level of visitors.

Among the fair's visitors, Design Days Dubai welcomed HH Sheikh Mohammed bin Rashid Al Maktoum, Vice President and Prime Minister of the UAE and Ruler of Dubai; HE Sheikh Nahyan bin Mubarak Al Nahyan, UAE Minister of Culture and Knowledge Development; along with many local, regional and international dignitaries.

A well-known patron of design, HH Sheikha Latifa bint Mohammed bin Rashid Al Maktoum, Vice Chairman of the Dubai Culture & Arts Authority, toured the fair at length, meeting many of the designers contributing to the shaping of Dubai as a global capital of design and innovation

and concluded her visit with a design discussion on the development of the design scene in Dubai and UAE.

Design Days Dubai's continued development of broad regional and international networks included a dedicated professional buyers preview (targeting architects, interior designers, specifiers), as well as the popular annual VIP collectors and ladies previews, all served to draw in visitors from the fair's loyal following. Collectors, museums and institutions in attendance came from as far afield as Shangri La Center for Islamic Arts and Cultures (Hawaii, USA), Design Shanghai Collectible Design (China) and Ian Art Consulting (Korea). Many brought groups of curators and patrons to the fair, taking advantage of the buzz of Art Week and its other key events Art Dubai and Sikka.

Rawan Kashkoush, Design Days Dubai's Head of Programming said: "We are proud that Design Days Dubai 2017 closes as its most successful edition yet. There was buoyant mood throughout the fair, amongst its many visitors and exhibitors, who reported strong sales interest. Dubai has again reinforced its position as the regional centre of design and we look forward to continuing that fantastic momentum throughout to return in 2018 for our seventh edition."

Design Days Dubai has established a reputation as a far-reaching international platform and this year welcomed debut exhibitors Leclairer (France/USA), Territoire(s) (France/UAE) and Todd Merrill Studio (USA) bringing with them a range of collectible design from best-in-class American and European designers.

International designers on show also included 'Britain Takes Shape', an exhibition of British contemporary design, hosted by Dubai Culture in celebration of the UK-UAE Year of Creative Collaboration, which was a particular hit with the region's collectors.

Positive indicators of the success of the fair were not limited to strong sales interest but also by the number of exhibitors already confirming their return for the 2018 edition, along with interest from prospective exhibitors, many of whom travelled to the fair from the region and beyond.

Todd Merrill, founder of eponymous design gallery, a leading voice in international contemporary design, said: "Design Days Dubai was a perfectly run world class design fair that offered incredible dealer support which opened the Dubai market to us. Todd Merrill Studio received an amazing advance of publicity and overwhelming response to our booth by the attending trade and public. It was a fantastic experience that we hope to repeat."

Design Days Dubai is the region's most established launch pad for the region's emerging design studios and solo designers to debut their furniture, lightings and design objects, featuring them alongside a diverse mix of the world's design galleries.

This year's first-time exhibitors from the UAE were Ayah Al Bitar, AYKA Design, CarpetsCC by Cecilia Setterdahl, Jafar Dajani, MCML Studio, Michael Rice and Nader Gammas; and from the region, Apical Reform (India), Aperçu Designs (Jordan), Marie Munier (Lebanon), Dahr (Saudi Arabia) and Ahmad Angawi, represented by King Abdullaziz Center for World Culture (Saudi Arabia).

First time exhibitor Dubai-based Nader Gammas, who presented a collection of brass and marble lighting, said: "Design Days Dubai's crew did an amazing job organizing and promoting the fair. Because of that, I was able to present my pieces to a very large audience, and contribute to the regional design scene."



Returning to the fair for its fifth consecutive year, Jill Hoyle, manager of Tashkeel said: "As always, Design Days Dubai was a great experience for Tashkeel and provided us with an amazing opportunity to showcase the work of the emerging designers who had been part of the Tanween programme over the last year. The opportunity to show their work alongside that of established regional and international designers and to get feedback directly from visitors to the fair is an invaluable experience for designers at this stage of their career."

Design Days Dubai remains a catalyst to the development of the design community in the UAE and region and supports initiatives that focus on regional talent.

These include partnerships with Van Cleef & Arpels (the fifth edition of Van Cleef & Arpel's Middle East Emergent Designer Prize), Audi (Audi Innovation Award), art and design organisation Tashkeel (the fourth season of Tashkeel's successful design programme, Tanween), and Dubai Culture and d3 (the third Urban Commissions competition).

Mohammad Saeed Al Shehhi, Chief Operating Officer of d3, Design Days Dubai's new location commented: "We are extremely delighted to have hosted Design Days Dubai for the first time at Dubai Design District highlighting Dubai as a central and strategic meeting point for the local and international design community and firmly placing d3 as the centre for design in the Middle East, on a global level. Collaboration with events such as Design Days is key to our vision of ensuring that d3 continues to evolve into a truly integrated and global creative community, which nurtures and showcases the region's local talent to an international audience. We are really excited to see the way the region's design industry is flourishing through platforms like Design Days that supports our vision of nurturing local and regional talent and supporting them to reach their full potential."

For more information, visit [www.designdaysdubai.ae](http://www.designdaysdubai.ae).

# show preview

BEX Asia 2017

12<sup>th</sup> – 14<sup>th</sup> September 2017  
Marina Bay Sands Convention Center  
Marina Bay Sands, Singapore



Returning in its tenth edition, the upcoming Build Eco Xpo (BEX) Asia 2017 will be held at Marina Bay Sands Expo and Convention Centre Singapore from 12 to 14 September. In celebration of BEX Asia's decade-long journey in inspiring greener transformation among the building community across Southeast Asia, BEX Asia 2017 has lined up these exciting changes: the new Smart Solutions feature area; Technology-powered personalized recommendations and business meetings; as well as the launch of our online learning resource center, all of which are underpinned by a refreshed logo and theme.

BEX Asia 2017 and its co-located events are expected to play host to more than 450 exhibiting companies internationally and over 12,000 trade visitors across Southeast Asia. A Green Future Worth Building: Unveiling our new theme and logo for the 10th edition of BEX Asia Against the background of rapid urbanization and buildings' growing importance in driving a sustainable future.

BEX Asia's new theme is "A Green Future Worth Building" which is also accompanied by a refreshed logo. "We are proud to be celebrating BEX Asia's decade-long journey



as Southeast Asia's pinnacle tradeshow where the regional green building community gather to source, learn, network and create real change. In partnership with key industry stakeholders, we will continue to deliver inspiring content and marketing leads to the sustainable building and construction community regionally, as well as build meaningful bridges within," said Ms Louise Chua, Project Director of BEX Asia and Business Development Director, Reed Exhibitions.

Here's to a smarter future BEX Asia 2017 introduces a new Smart Solutions feature area showcasing the latest technologies that accelerate automation and provide actionable insights that drive greater efficiency and lower building management costs. It will cover a spectrum of interconnected segments including 'Internet of Things', building and lighting controls, HVAC optimization, access & security controls, electrical network controls and more.

Exhibiting companies include Belimo Actuators<sup>1</sup>, Delta Energy Systems, DEOS AG<sup>1</sup>, Enovatek Energy, Graesslin, M5 FE Enterprise, Socomec Asia Pacific, Reliable Controls<sup>1</sup>, Tridium Asia Pacific<sup>1</sup> and more. The next stage of business matching: Technology-powered, personalized recommendations and meetings. Instead of pushing the same product news generally to every pre-registered visitor, BEX Asia 2017 will deliver personalized recommendations of exhibitor products, based on data insights gleaned from visitors.

The last edition of BEX Asia and the co-located MCE Asia, together facilitated a total of 373 business meetings onsite, which are expected to generate more than US\$130 million in green building transactions. Knowledge is power. In partnership with leading green building experts who spoke at BEX Asia's complimentary Green View seminars, BEX Asia 2017 has launched the online Learning Resource Center where the building community can easily access complimentary industry content that help keep them abreast of the latest green building know-how and trends.

Converging the biggest brands across the globe. As Southeast Asia's leading green building exhibition, BEX Asia 2017 has already secured the participation of green building giants like Big Ass Fans, Camfil, Kansai Paint, Nippon Paint and PAREX Group. Visitors will also get to see the latest cutting-edge technologies from AGC Asia Pacific, AAF, Ariston Thermo, ebm-papst and Reflex Winkelmann, which will be exhibiting at Mostra



Convegno Expocomfort (MCE) Asia 2017, a co-located exhibition focusing on energy-efficient HVAC, Water and Solar Energy solutions.

Pavilions representing Canada, China, Japan, Korea, Taiwan and more will also bring together an inspiring showcase of the most cutting edge technologies and capabilities from each market. To advance further knowledge exchange, BEX Asia 2017 will once again offer the Green View seminar, a complimentary platform which brings together the brightest minds internationally to share their insights on latest trends and opportunities in Southeast Asia, actionable best practices and innovative solutions for building management in the tropics.

More updates on other activities celebrating BEX Asia's 10th year anniversary will be announced in the lead up to the event. Supported by prominent industry organisations like the Building and Construction Authority of Singapore and the Singapore Green Building Council, BEX Asia 2017 is one of the anchor trade events of the Singapore Green Building Week (SGBW). BEX Asia 2017 will be held alongside the third edition of MCE Asia, and the International Green Building Conference (IGBC).

For more information, visit [www.bex-asia.com](http://www.bex-asia.com).

# show preview

Thailand Lighting Fair 2017

16<sup>th</sup> – 18<sup>th</sup> November 2017

Hall 102 – 104, BITEC  
Bangkok, Thailand



**Thailand Lighting Fair 2017 (THLF 2017) brings world class lighting technologies and links the “entire lighting buying chain” of global and ASEAN lighting industry**

With the continued strength of economy of Thailand together with infrastructure development plan and business-friendly regulations, Messe Frankfurt see great potential in Thailand as a business hub for ASEAN. Good proof would be a success story of Thailand Lighting Fair, a lighting trade exhibition, which has been launched in 2015 and now the show has become a leading lighting technology in ASEAN.

This year Messe Frankfurt together with The Exhibiz launch “building zone” – to follow light + building show theme as well as bring back Secutech Thailand 2017 in which the organiser strongly believes that the timing is right and the market condition is right. Messe Frankfurt in collaboration with The Exhibiz and continuous support from the Provincial Electricity Authority (PEA) officially announced the third consecutive year of its ‘Thailand Lighting Fair 2017’ (THLF 2017). Due to the positive feedbacks of THLF 2016 and in response to industry 4.0, THLF 2017 will be organised in concurrent with Secutech Thailand 2017 under the main theme of “Smart City. Safe City.”.



The shows will cover ranges of technologies and solutions from upstream services to downstream supplies needed for Smart City and Safe City development in the Digital Era from lighting, security to building automation under one roof. The show will offer promising benefits for lighting manufacturers, distributors and visitors. THLF 2017 will be held at the Bangkok International Trade & Exhibition Centre (BITEC), Hall 102-104, from 16-18 November 2017.

As ASEAN's one-stop sourcing marketplace for lighting technology, design, solutions which connects leading lighting manufacturers and distributors from all over the world with potential buyers plus the fair is an excellent educational platform that guide absolute alternative solutions and necessary up-to-date information for the players in the industry. A wide array of innovative lighting technologies will be made available at the trade show, presented by more than 350 leading lighting companies from around the globe, taking over 10,000 square metres of exhibition space enabling it to serve over 10,000 trade visitors across the region.

Additionally, THLF 2017's highlights will lighting up new business opportunities with highlight zone "Smart City & Safe City Landmark" – an intense business platform for exhibitors to convince target customers in virtual environment, Smart City Investment Zone – A zone for developer of smart city project in Thailand and ASEAN to showcase and present their projects to pitch for investors, ASEAN Smart City Conference 2017 and

ASEAN Architecture & Lighting Design Conference 2017, and series of international seminars and certificate courses – Live at THLF 2017.

#### Why THLF2017

- One of the Lighting Series trade shows by Messe Frankfurt, the World's Leading Exhibition Organizer
- One-stop sourcing marketplace for lighting technology, design and solutions
- Meeting point for architects, lighting designers and lighting professionals
- An excellent educational platform on lighting innovation and design trends
- With strong support from major government bodies and related associations, THLF will become the largest B2B lighting trade fair in ASEAN

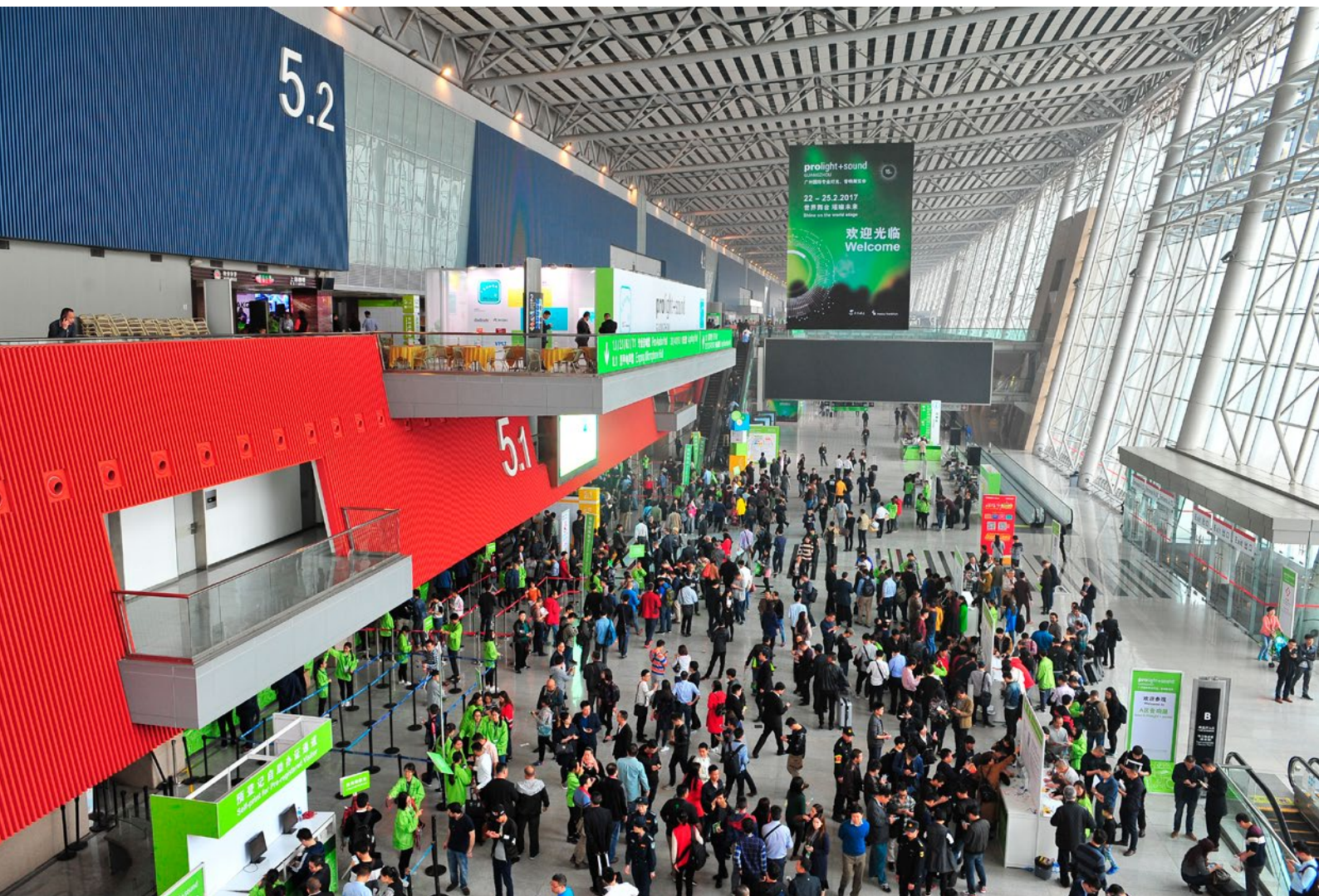
ASEAN's Leading Trade Fair on Lighting Technology, Design and Solutions Thailand Lighting Fair 2017, a trusted platform among industry experts, is heating up the industry with its ambitious to become a perfect networking platform and marketplace for Southeast Asia. With thousands of latest lighting technologies on display from upstream services to downstream supplies, the show attracts thousands of ASEAN buyers and offers unrivalled business opportunities for international sellers to capture ASEAN's growing lighting industry and rising needs for energy efficiency.

For more information, visit <http://thailandlightingfair.com/>.

# show review

Prolight + Sound  
Guangzhou 2017

22<sup>nd</sup> – 25<sup>th</sup> February 2017  
China Import and Export Fair Complex  
Guangzhou, China



Held from 22 – 25 February 2017 at the China Import and Export Fair Complex, the 15th anniversary of Prolight + Sound Guangzhou surpassed industry expectations with a shattering attendance of 73,986 visitors, marking an 8.1% increase from 2016. A total of 1,250 exhibitors also staged a full spectrum of pro audio and lighting advancements across 130,000 sqm of exhibition space in 13 thematic halls and the extended area of Y Channel.

Commenting on the success of this year, Ms Judy Cheung, Deputy General Manager of Messe Frankfurt (Shanghai) Co Ltd shared, "Since the formation of the strategic partnership between Messe Frankfurt and the Guangdong International Science and Technology

Exhibition Company (STE) in 2013, Prolight + Sound Guangzhou has envisioned bridging the local and international markets by introducing conceptual and structural changes. As we celebrate the fair's 15th year, we are humbled by the strong industry support and positive feedback to our show changes."

Ms Cheung added, "The show's success underlines the effective partnership that we've been committed to building, as well as the pioneering position of the show in the industry. In the future, we will continue to act in the interests of the pro audio and lighting community to deliver a more international business platform for our exhibitors and visitors."

### Exhibitors elated by the enhanced numbers, quality and internationality of attendees

This edition was supported by a strong line-up of key players representing 26 countries and regions, many of whom had positive comments about the vibrant atmosphere in the exhibition halls and the high-calibre visitors they met during the four-day event.

Yamaha Music & Electronics (China) Co Ltd is one of the many companies that benefited from the huge visitor flow. Mr Lijun Yao, Manager of the company's PA Marketing Department explained, "To further expand our business for professional speakers in China, we are launching our new CL series digital mixing consoles and TF-Rack digital mixers at this year's show. The event is getting more influential in the industry, which attracts more professional buyers and distributors from China. We are pleased with the visitor flow and have successfully connected with our target customers, including distributors from the live performance, installation and entertainment sectors."

Bose Professional Systems is also seeking to expand sales in China for its home and professional speakers and has returned for the second year to showcase its latest ShowMatch™ DeltaQ™ array loudspeakers. Equally pleased with the strong visitor turnout, Ms Joyce Tang, Marketing Manager of the company remarked, "We regard this show as one of our key marketing channels to meet with quality distributors and partners from the upper and lower supply chains. One of the biggest benefits of joining this fair is the high amount of professional visitors we can reach."

Relacart Electronics Co Ltd was also overwhelmed by the influx of quality agents, distributors and engineers from all over the world who enquired about their newest TDN1 Microphone Desk Stand with Dante Network Output and WMS1 Wireless Frequency Control System. A representative of the company Mr Tingfei Wu remarked, "As this show boasts an esteemed position in the industry, especially in the pro audio sector, we rely on a professional, authoritative and market-oriented platform like Prolight + Sound Guangzhou to highlight our strengths and connect with our global buyers. The show is undoubtedly getting bigger and better, and we are surprised by the remarkable increase in quality buyers this year."

Sharing the same sentiment regarding the visitor professionalism was Ms Alice Lee, Export Manager at Nightsun Pro Lighting Equipment Co Ltd. She commented, "Through the fair, we hope to meet existing and new distributors and agents from all over the world. Apart from attracting a large pool of audience, the show also gathers a fair mix of domestic and foreign visitors who are professional and target-oriented. Prolight + Sound Guangzhou is a fair we can't miss."



### New "Theatre K. Pub" and 13 thematic halls offer unmatched range of products for show-goers

This year, the show organisers further broadened the fair's product profile in response to the burgeoning demands for the karaoke and theatre markets in China. The new "Theatre K. Pub" at Y Channel bolstered the product line-up, offering buyers the latest advancements in the sectors of mini and home theatres, customised installations, smart digital AV and system integration.

Mr Hu Liao, Sales Manager from Mian Yang SCR Technology Co Ltd who came for this specific zone, was content with the diverse technologies on display. "We are here to acquire the latest market trends in the karaoke sector to apply in our engineering projects for mini theatres, private clubhouses and resorts. This zone is an accurate reflection of the current market and provides more defined product categories that facilitate our sourcing experience."

Other visitors were also happy with the number of exquisite brands presented in the 13 thematic halls and zones, including the Audio Brand Name Halls, Pro Audio Halls, Lighting Halls, KTV Hall, Enping Microphone Hall, together with the lighting zone at Y Channel and product zones for conference and PA systems, headphones as well as microphones.

Malaysian visitor Ms Xinmei Tan, Assistant Manager in Product Management from Acoustic & Lighting System Sdn Bhd said, "I am impressed by the quality of some of the PA systems here. The scale of this show is astonishing and the fact that it houses the most prominent brands reflects its importance to the industry. Prolight + Sound Guangzhou is definitely one of the most professional and influential exhibitions of its kind in China."

Mr Francisco O Pinheiro Jr, Managing Director from TEC PORT, a Brazilian distributor for stage lighting equipment, saw the rising potential in Chinese products. "I am here to seek co-operation with local manufacturers and introduce their products to Brazil. Overall, my trip has been fruitful as I was able to meet Chinese companies providing quality LED display screens at a competitive price range."

### Comprehensive programme promotes global dialogue and industry development

With extensive support from industry associations and organisations from Asia, Europe and the US, this year's programme has gathered an international profile of speakers who imparted knowledge on a broader range of topics related to audio engineering, sound

production, KTV, stage design, installation and system integration. Events also placed a stronger focus on market trends, technical knowledge and business strategies to help participants navigate the evolving pro audio and lighting landscape.

The PLSG Annual Training Course, a highlight of this edition, successfully opened up constructive dialogues between international and local specialists. Topics covered in the course include the application of sound systems and acoustic technology, enhancement of event and stage performance, as well as real-time networking and media networking technology.

Mr Bernie Farkus, Senior Technical Sales Engineer of Australian company Audiante, was thrilled to conduct a training course on Dante™ technology to a full house of attendees. "This was a very successful experience for us as we had so many participants requesting us to do further training in China afterwards. Training courses like these are an indispensable part of the show because people not only want to see the products, but also learn about the technologies involved. China is full of tremendous opportunities and the fair has presented us a great opportunity to introduce the usage and configuration of Dante technology to the Chinese audience."



Mr Jaime Welton, Technical Director of Wukesong Arena (Beijing), who shared his insights on the safety of live events, also asserted the importance of the training course. "As China is one of the fastest growing markets in the world, this show presents a perfect platform for us to initiate safety awareness and preach safety practices among manufacturers and professionals. We are very glad to be here."

Mr Hongbing Hua, General Manager of Guangzhou Shituo Liheng Audio Technology who attended the Guangzhou Recording and Multimedia Technology Forum 2017, praised the effectiveness and relevance of the content. "As a company working for cinema engineering and stage sound reinforcement, we are often faced with challenges in presenting the best sounds at live events. I've benefited greatly from the forum through understanding how the location of microphones can affect the optimal sound output. The quality of the programme is improving, and it's good to hear relevant and practical tips from professional speakers."

The highly-rated Vision X Network continued to offer a business platform that facilitated business and technology exchange in a relaxing setting.

Mr Ziqian Chen, Technical Manager from Sennheiser Electronic (Beijing) Co Ltd who spoke at the event for the first time, was delighted by the opportunity to directly engage with the company's clients. "This is an excellent platform for us to give an in-depth introduction of our latest XSW1 and XSW2 series. This event is more than a product presentation as we can also interact and share technical knowledge with participants. I am happy to see that many attendees expressed genuine interest and stayed to enquire about the recording solutions of our products."

Participants who visited the Outdoor Line Array, which featured 30 local and international brands across three demonstration areas, also applauded the high quality of speakers. One of the attendees Mr Xiaoyu Guan, Deputy General Manager of Beijing Goharston Technology Co Ltd exclaimed, "I really enjoyed listening and comparing the sound quality of speakers here. The overall quality is very high this year, and I can visit the desired booths directly after the demonstration to learn more about their technologies, which saves a lot of my time and effort."

A number of technology-oriented forums and seminars were also well-attended by expert speakers and attendees representing various facets of the pro audio and lighting world. These events include the Audio Engineering Design and New Acoustic Technology, Audio Technology Forum 2017, Audio Technology in Digital Age – Development and Opportunities, China Mini Theatre and KTV Industry Forum 2017 (Guangzhou Section) & Outstanding Mini Theatre and KTV Brand Award Presentation Ceremony, Guangdong Association of Performing Arts Meeting (Performance Venues), as well as Practical Measurement for Pro Audio Equipment. Together, they provided industry peers with business ideas, networking opportunities and market insights.

For more information, visit  
[www.prolightsound-guangzhou.com](http://www.prolightsound-guangzhou.com).

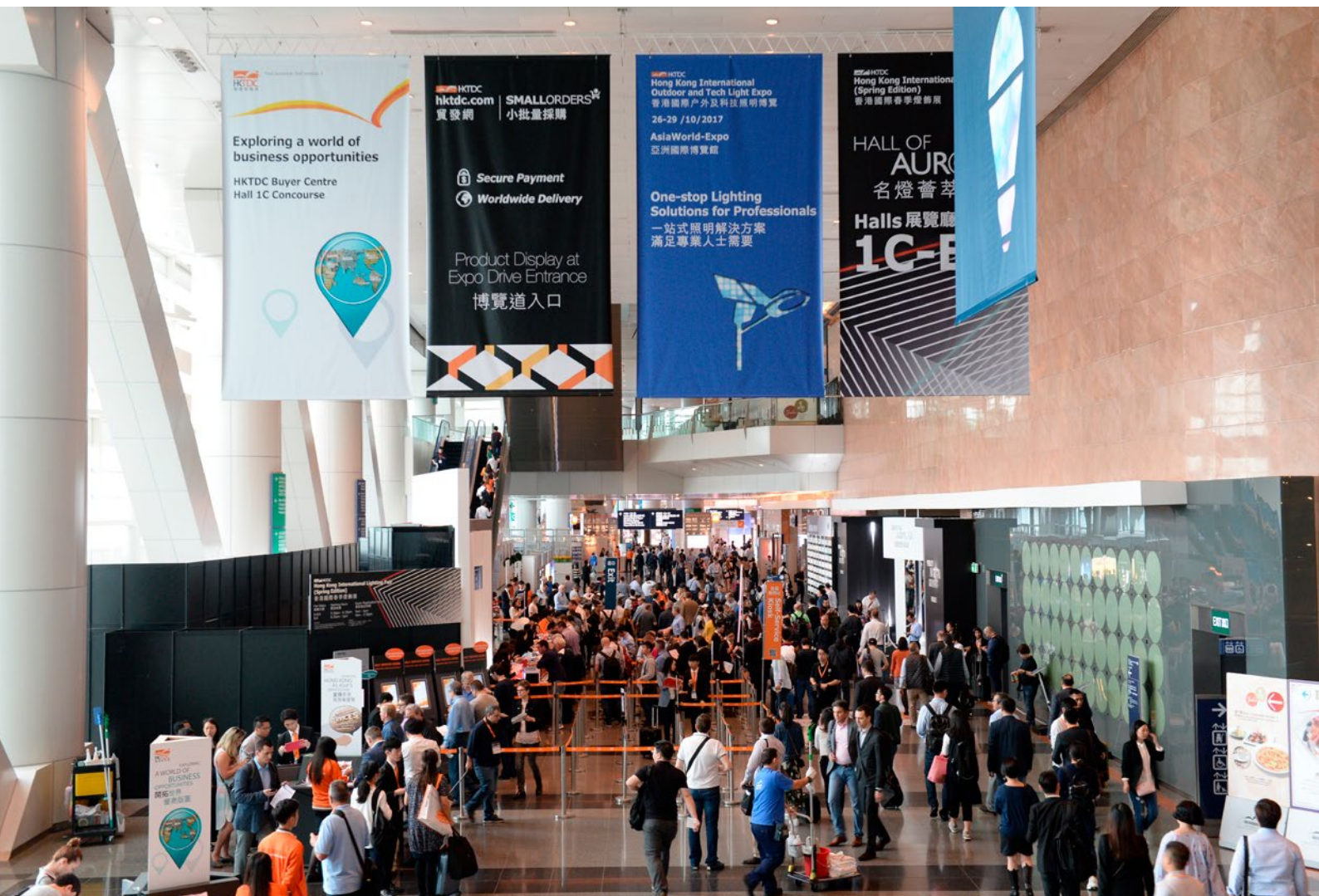


# show review

Hong Kong International  
Lighting Fair

6<sup>th</sup> – 9<sup>th</sup> April 2017

Hong Kong Convention and Exhibition Centre  
Wanchai, Hong Kong



The ninth Hong Kong International Lighting Fair (Spring Edition), organised by the Hong Kong Trade Development Council (HKTDC), closed yesterday. The four-day fair (6-9 April) welcomed a record of 1,340 exhibitors from 13 countries and regions, welcoming close to 21,000 buyers from 115 countries and regions, a 5.8 per cent increase over the previous year.

“We saw brisk trading and networking at the Spring Lighting Fair,” said HKTDC Acting Executive Director Benjamin Chau. “Buyers from European, US and Asian markets were actively engaged in sourcing, with buyer attendance from the United States, Australia, Germany, the United Kingdom, Canada, Japan, the Philippines and

Thailand recording double-digit increases – bringing more business opportunities for exhibitors.”

Mr Chau noted that a fairground survey indicated that the industry was optimistic about the lighting market’s outlook for the coming year, with expectations of persistent demand for smart lighting and substantial growth in LED and green lighting sectors. A new “Smart Lighting & Solutions” zone was introduced this year to showcase the latest smart lighting systems, remote controls and products, while “LED and Green Lighting” remained the fair’s largest thematic zone, attracting more than 450 suppliers. These zones offered quality products catering to the latest market needs.



The HKTDC commissioned the independent on-site survey during the fair, interviewing more than 373 exhibitors and buyers about their views regarding industry prospects. The survey found that 95 per cent of respondents expect overall sales of products to increase or remain unchanged this year, up 31 percentage points from last year.

As for product trends, respondents consider lighting accessories, parts & components to be the product sector with the highest growth (38%), followed by LED & green lighting (18%), household lighting (18%) and smart lighting & solutions (9%). Among traditional markets, respondents are most optimistic about North America, Western Europe and Hong Kong. As for emerging markets, respondents believe the Chinese mainland, ASEAN countries, the Middle East and Latin America have the best growth prospects this year.

#### **Persistent demand seen for smart lighting**

Ninety two per cent of respondents say they believe “smart city and smart home” technology will

drive development of the lighting industry in the next two years. The highest growth potential is seen in household lighting systems that can be controlled by smart phone/tablet applications, and in smart lighting systems primarily with energy-saving purposes for household/industrial/commercial applications.

“Smart lighting is favoured by the new generation in GCC (Gulf Cooperation Council) countries because young people like novelty and they can use mobile apps to control lighting effects and achieve home automation,” said Muhammed Noufel, General Manager of Bella Nova Trading FZE. The buyer from the United Arab Emirates also said his company had identified many new suppliers through the fair, and planned to buy US\$50,000-100,000 worth of LED lighting products from them.

#### **LED and green lighting in spotlight**

LED and green lighting has been a focus for global buyers due to declining prices, higher energy efficiency, longer life expectancy as well as growing environmental



awareness. The survey found that the respondents expect indoor household lighting (28%), indoor office & commercial lighting (21%) and outdoor lighting (18%) to be the LED application categories with the highest growth potential for the next two years.

Fair exhibitor Hangzhou Sky-Lighting Co Ltd was promoting its eco-friendly LED filament bulbs at the show, where it had met with buyers from Europe who were very interested in its products. Europe and the Middle East were the exhibitor's largest markets, "We are keen to expand into new markets such as Japan and the US through the fair. The Spring Lighting Fair provides an ideal platform for us to look for quality buyers," said Sales Manager Lu Lu.

Albert Huang, Operation Director of US exhibitor Jaykal LED Solutions Inc said both the spring and autumn editions of the Lighting Fair provide a good platform for his company to introduce new products. He added that its solar streetlights had attracted strong interest from buyers from such regions as Africa and South America. The company runs a Chinese mainland factory that manufactures high-quality LED lighting products for industrial and commercial applications.

Maria Cabrera, CEO North America for Swiss LED USA, was visiting the fair for the third time. She found at least eight potential suppliers of household lighting and two potential suppliers of



hotel lighting products from the Chinese mainland and Vietnam. Mrs Cabrera said she plans to buy US\$500,000 worth of lighting products from these new suppliers and would soon confirm orders with the hotel lighting suppliers.

#### Highly Effective Marketing and Sourcing Platform

Mable Fang, Lighting Consultant for Epistar Industrial (Hong Kong) Co Ltd – an exhibitor which has joined the fair for many years – said the show was an important platform to promote the company among international buyers and to look for new prospects. “We have received enquiries from many buyers including those from Europe, the Middle East, Southeast Asia and the US. We expect that at least two to three new buyers will buy our products,” she said.

Argentine buyer Fernando Pache Brussoni, Director of Urulamp, appreciated the scale of this year’s Spring Lighting Fair. “The LED industry is developing quickly. The fair brings together a lot of suppliers and new products, which allows us to grasp the latest trends. So far, we have found new models of flood lights and street lights, and already identified four to five new suppliers from the Chinese mainland. We’ll buy their products after checking their quality and prices,” he said.

For more information, visit [www.hktdc.com/aboutus](http://www.hktdc.com/aboutus).



# show review

Guangzhou International  
Lighting Exhibition 2017

9<sup>th</sup> – 12<sup>th</sup> June 2017  
China Import and Export Fair Complex  
Guangzhou, China



In the past 20 years, the Guangzhou International Lighting Exhibition (GILE) has been facilitating cross-industry networking for the lighting sector worldwide. Entering its 22nd edition, the fair, known as one of the most comprehensive lighting and LED events in Asia, will be held from 9 – 12 June 2017 at the China Import and Export Fair Complex in Guangzhou, China. The four-day event will welcome more than 2,300 exhibitors from over 20 countries and regions and span 17 halls covering 175,000 sqm of exhibition space. Visitors to the show can expect to source from an extensive range of lighting and LED technology-related products as well as lighting accessories, electronic components and more.

Ms Lucia Wong, Deputy General Manager of Messe Frankfurt (Shanghai) Co Ltd, shared: "The Guangzhou International Lighting Exhibition has steadily developed into an influential and distinctive platform for integrated sourcing, information exchange and new business development. Throughout every edition in the past two decades, we are glad to have continuously witnessed ample business activities at the fair. For exhibitors and buyers from around the world, GILE is a must-attend one-stop trading platform in Asia that promotes cross industry sourcing for developing new markets."

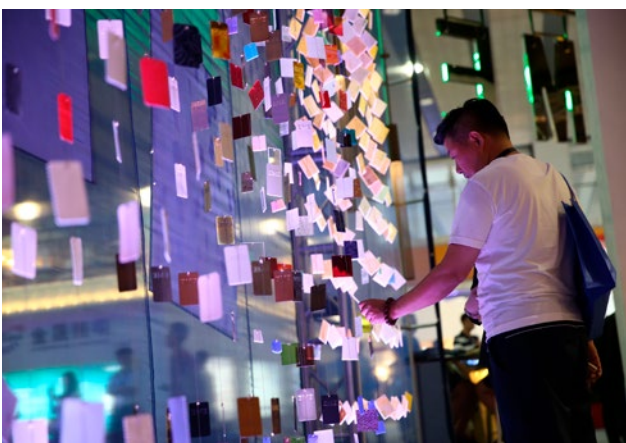


### Prestigious domestic and international companies confirm their attendance at the 2017 fair

The latest innovations in the lighting and LED industries from across the world will be on display at GILE. The exhibition is categorised into three major sections including production, technology and application. By bringing together all key industry players under one roof, fairgoers will be able to learn about up-to-date lighting and LED trends and news within the entire manufacturing process.

#### *Production sector*

The production segment highlights the latest components used for product development and materials that optimise the durability and performance of the light and LED products themselves. Some of the well-known confirmed components, material and manufacturing equipment suppliers participating in the 2017 fair include AiHua, ALANOD, Almeco, BJB, Dow Corning, EVERFINE, Han's Laser, Instrument Systems, Inventfine, LEDiL, Niche-tech and many more.



With technologies constantly evolving, end users are also demanding better lighting designs that fall into strict budget constraints. To counter high design costs, companies such as Dow Corning, a wholly owned subsidiary of Dow Chemical, is a global leader in silicones, silicon-based technology and innovation. The company see their products and solutions play an important role in expanding LED lighting designs. They are confident that their advanced silicon-based technology such as chip coatings, LED chip encapsulates and others will optimise light quality, optical efficiency, reliability and overall cost for future LED lighting designs in China as well as other countries and regions.

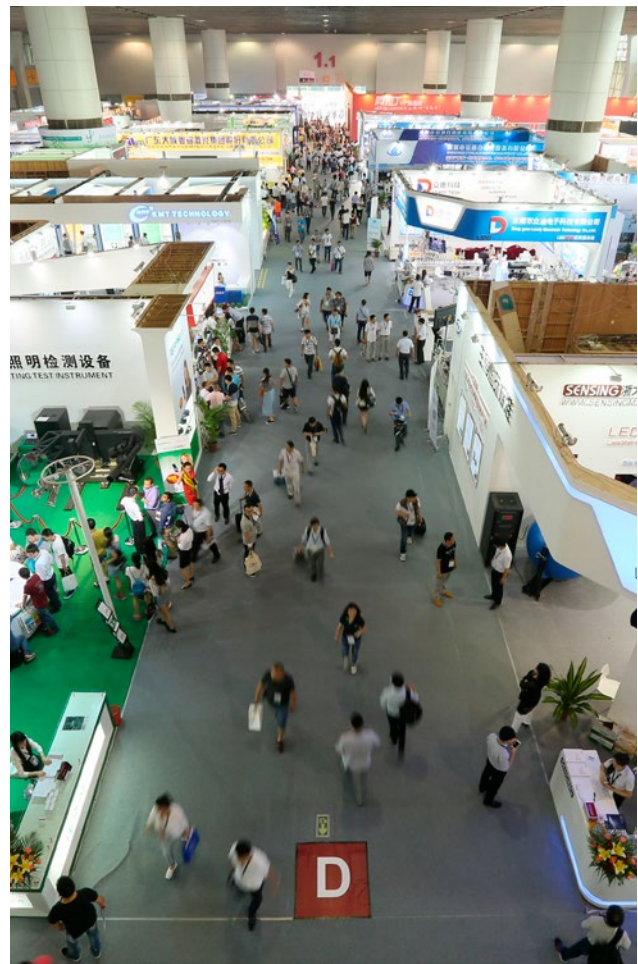
#### *Technology sector*



Lighting technologies is also another key highlight at the show. A comprehensive selection of power supplies, drivers, electronics, thermal management systems, optical components and others will be on display. Some of the renowned brands specialising in the development of lighting and LED lighting technologies include: ALPHA, Bridgelux, Citizen Electronics, Dialog Semiconductor, Edison, HC SemiTek, Honglitrionic, Inventronics, MEAN WELL, MOSO, Power Integrations, Refond, Rfsemi, Seoul Semiconductor, Shineon and many more.



With the growing quantities of LED products readily available in today's market, consumers not only require efficiency and reliability but also emphasise 'Quality of Light'. Returning for the ninth time is Japanese manufacturer, Citizen Electronics, who will display their latest product, the CITILED VIVID Series packaged LEDs. Using the company's latest chromatic LEDs, this series of products is developed to enhance the vivid colour for all items displayed in retail stores, art galleries, museums and others. Additionally, the company will also showcase their DIM to WARM COB series at the fair.



*Application sector*

Not only have technological advancements enhanced lighting functionality and efficiency, but have also improved on their applications. The fair will put into perspective how residential, commercial and industrial lighting applications paired with modern-day urban and architectural designs can influence people’s daily lives. Some of the confirmed exhibitors specialising in this category include: Dilux, Everlight, Feelux, Fumagalli, Hpwinner, Huayi Lighting, Luminus, LEDvance MLS, Nationstar, Nexus, OML, Romney, TONS Lightology, Wellmax and many more.

Moving beyond the scope of illumination, lighting now plays an important role in enhancing human wellbeing, vision and performance. Returning exhibitor, Feelux from Korea, will showcase their latest, energy-efficient lighting systems at the 2017 fair. Devoted to providing optimum lighting for various applications, the company’s products can be found in households, offices, retail stores, healthcare institutions and more.

**Signature business matching event offers fairgoers effective and hassle-free sourcing experiences**

Apart from the exhibition, The Hosted Buyer Programme is another highlight event at the fair which helps connect exhibitors with high-calibre buyers. To facilitate the sourcing needs for all fairgoers, the show organisers offer three networking sessions to be held from 10 – 11 June at the GILE Lounge. Located on the Pearl Promenade in Area A, opposite to the entrance of Hall 2.1, participating buyers will be paired with exhibitors based on their interest and sourcing needs, providing the most effective way for them to connect with the right suppliers. The three business matching sessions and their corresponding industry sectors are as follows:

- Residential, Industrial and Commercial lighting
- Street, Garden, Architectural and Specialty lighting
- Lighting accessories, component, packaged LED, LED drivers and controllers



Commenting more on the fair's business matching programme, Ms Wong added: "GILE captures the pulse of the lighting and LED industries and we are using this as our leverage to strengthen the effectiveness of our business matching service. With end users becoming more conscious towards energy efficient, green and reliable lighting solutions, environmentally friendly products such as compact fluorescent lamps and LED lighting will continue to be one of the spotlights at the show. Equally important for the future of the lighting industry are smart lighting solutions which interact with smart devices via IoT technologies. A comprehensive selection of state-of-the-art sensors, on/off controls, dimming and ambient lighting solutions will also be offered."



The Guangzhou International Lighting Exhibition will run concurrently with Guangzhou Electrical Building Technology. Both are a part of Messe Frankfurt's light and building technology fairs worldwide, headed by the biennial Light + Building event which will take place from 18 – 23 March 2018 in Frankfurt, Germany.

Messe Frankfurt also offers a series of other light and building technology events worldwide, including the Shanghai International Lighting Fair, BIEL Light + Building in Argentina, Light Middle East in the United Arab Emirates, Interlight Moscow powered by Light + Building in Russia as well as Light India, the LED Expo New Delhi, and the LED Expo Mumbai in India.

For more information, visit [www.messefrankfurt.com](http://www.messefrankfurt.com).





# FLOWER FORMATIONS

Quebec, Canada

ADMINISTRATION

Project Title: **Formations**

Project Completed: **November 2016**

Artist: **Elisabeth Picard**

Materials: **Dyed zip-ties, steel, LED projectors**

Dimensions: **42 x 60 x 30 inches, 50 x 40 x 40 inches and 47 x 47 x 20 inches**

Projectors: **Elisabeth Picard and Ghislain Brodeur**

Site: **240 Hertel street, Beloeil, (Quebec), J3G 3N1**

Client: **Ville de Beloeil**

Metal Work: **Michel Bernier and Geoffrey D'Husler**

Production: **Elisabeth Picard, Ghislain Brodeur, Josée Picard, Andréanne Godin,**

**Fal Petit and the Cercle des Fermières de Beloeil: Danielle Landry,**

**Marie-Josée Boisvert, Monique Gilbert, Huguette Tessier and Lise Landry**

Technical Drawings: **Ghislain Brodeur**

Installation: **Elisabeth Picard, Ghislain Brodeur,**

**Matthieu Gauvin, Nicolas Fleming, Alexandre Pepin**

Architect: **Martin Brière, BGLA**

Photographer: **Michel Dubreuil**

The new Beloeil Cultural Center is a universally accessible, ecological building that meets environmental and energy efficiency criteria, as well as having partly green roof and a rainwater recuperation system. The building houses administration offices, sports facilities, multipurpose spaces to accommodate 12 community organizations, a public place for Beloeil city council meetings and a centre for emergency procedures.

The work *Formations* was completed in November 2016 and produced in the context of the politique d'intégration des arts à l'architecture et à l'environnement du Québec, 1% program.

Three hanging light sculptures majestically welcome visitors in the entrance hall. The artwork makes a link between the mineralogical heritage of nearby Mont Saint-Hilaire and the education and enrichment the public receives from the community centre's sports and cultural activities: growth, development and blossoming. The staircase's various platforms give differing viewpoints of the work, and on the wall and ceiling, the work creates a play of reflections and shadows.

The diamond shape and its variations inspired the work's structure and recall a pattern frequently used in quilt making, an activity of the "Cercle des fermières" (women's quilting group). The shapes also evoke the world of science and resemble certain mineral configurations.

During the work's production, the artist invited the Cercle des Fermières de Beloeil to participate in assembling the zip-ties. For the Beloeil community this created a relationship with the artist and a feeling of being part of making the art piece. We can find 400 different types of mineral at Mont Saint-Hilaire, which 60 are "espèces types" (discovered for the first time)\*.

#### **About Elisabeth Picard**

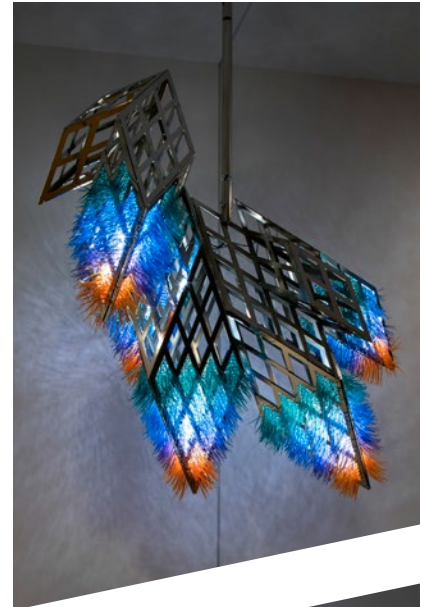
Elisabeth Picard is a Montreal artist. She has received bursaries and grants from SSHRS, FQRSC, Concordia University, CALQ and SODEC to pursue her sculpture research.

Since 2006, her work has been exhibited in Quebec, Ontario, Cuba, France and Lithuania and was included in various publications in Québec, US, Italy and Malaysia.

Her artworks have been presented most notably at the Red Music Academy at Phi Center, at Division Gallery in Montreal, at MATERIA in Quebec City, at the Biennale Internationale du Lin in Portneuf (2013), at the Biennale nationale de sculpture de Trois-Rivières (2016), QC and at Lonsdale Gallery, which represent her work in Toronto. Her work is in the public collections of the Ville de Montréal and Ville de Laval and private collections in Québec, France and Portugal.

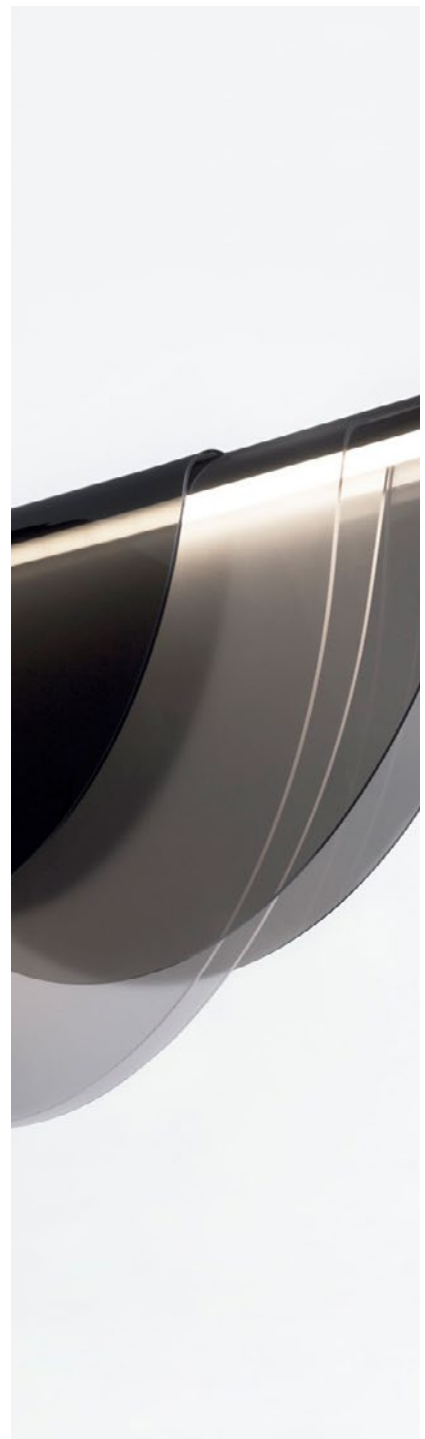
For more information, visit [www.elisabethpicard.com](http://www.elisabethpicard.com).

\* Gilles Haineault : Minéraux du mont Saint-Hilaire, 2014



# FUNCTION AND ORNAMENTATION

Toronto, Ontario



ANONY's flexible lighting collection can provide both function and ornamentation to almost any space. The pure forms and neutral material palette of the lights allow them to make a quiet statement wherever they may be placed.

All fixtures use dimmable LED technology and can be fully disassembled to change the light source, replace a part, or re-install. Here we feature three fixtures – Dawn, Ohm and Horizon.

## **Dawn | Linear Suspension Light**

Dimensions: W1220 x D48 x H437mm / W48 x D1.875 x 17in

Material: Aluminum, Plexiglass, Acrylic, LED

Finish: Anodized Matte Black / Matte WhitePlexi Finish: Smoke Tones

Dimmable: ELV Dimmable

Dawn is composed of plexiglass panels that gracefully drape over a refined aluminum tube, producing dynamic shapes and subtle shades of colours. As the name suggests, it is a graphic take on the ethereal moment when the sun is rising but still below the horizon, softly illuminating the sky.



## Ohm | Pendant

Dimensions: OD125mm / OD4.875in

Material: Steel, Aluminum, Glass, LED

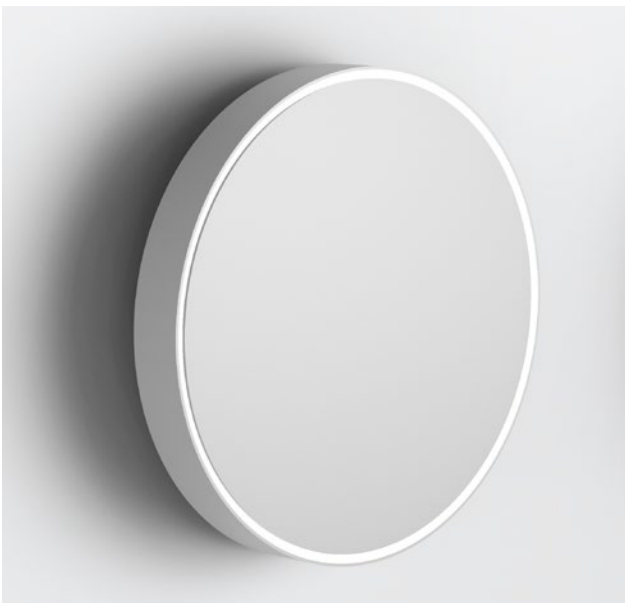
Glass: Frosted / Matte Opal White

Shade Plated Finish: Polished Copper / Brass / Mirror Chrome

Shade Painted Finish: Matte White Sandtex / Matte Black Sandtex / Available in various colours upon request

Dimmable: ELV Dimmable

An innovative take on a conventional sphere, the Ohm's orbiting shade invites curiosity and interaction. Each opal glass orb casts a warm ambient glow, suspended in space by a slim suspension cable. The Ohm can be displayed as a singular pendant or as a cluster.



## Horizon | Wall Sconce

Dimensions: OD250mm x H50mm / OD10in x H2in

Material: Aluminum, Polycarbonate, LED

Finish: Matte White Sandtex / Available in various colours upon request

Mounting: J-Box | Keyhole Plug-in

Dimmable: Triac Dimmable

Horizon is a minimal disk which appears to float off the wall. A simple push changes the direction of light. The sophisticated construction creates an unbroken ring of light, revealing no fasteners. Horizon can be produced in any colour and arranged in any pattern to create sculptural compositions.

Horizon also has an optional wall adapter with an on/off switch, eliminating the need for a junction box as it is powered with a cord and plug.

### About ANONY

ANONY is a lighting and product design studio founded by Christian Lo and David Ryan in 2015. Lo and Ryan's refined design aesthetic belies the complexity of factors they consider as part of their creative process.

Their interest in utilizing the latest technology and manufacturing processes is combined with an honest and timeless approach to a product's life cycle judicious use of materials, minimal manufacturing, and ease of use.

Through this philosophy, ANONY hopes to create products that produce an emotional response similar to the appreciation felt for the utilitarian yet well-designed objects of decades past.

Their first lighting collection, launched at the Interior Design Show Toronto 2017, won 'Best Collection' in the Studio North exhibit.

For more information, visit [www.anony.ca](http://www.anony.ca).

# WHERE LIGHT MEETS ART



Mounting: Wall pendant  
Lamp (Bulb) Description: 3\*4 LED module 2700k 120lm- 2.1w  
Environment: Indoor  
Operation: Wall or Cable Switch  
Measurements: 15.3 in (39 cm) x 14 in (35.5 cm)  
Weight: 2.8 lbs (1.3 kg)  
Voltage (V): 110- 240  
Colour: Available in 6 different colours (gold, silver, black, white, blue, pink)  
Construct Material: Aluminum, Steel  
*UL and CE approved*  
Custom Made (colours, fixture): Possible to design as a project per minimum order



Popup lighting is a light fixture inspired by popup books. The idea was to turn every day icons into artistic and elegant lamps.

The clean shape of the lamp is amplified by the light's reflection on the wall, creating a 'wow effect' and making the ambience in the room magical. Bringing back that excitement and naivety we felt when we opened our first popup book.

#### The Inspiration

When Chen Bikovski was a child she loved popup books, "they had the ability to take me into a world of fantasy and magic that always inspired my dreams. Each time I flipped a page I was sent down the rabbit hole, and just like Alice in Wonderland, I discovered a new fantasy world hidden in the ordinary looking book – the surprise making the magic all the more real."

Growing up, those feelings of magic and fantasy were getting harder and harder to find. That's why she created Popup Lighting. She always felt that there was something magical about light, so, with this passion for art and design she has created a light fixture that would bring those nostalgic feelings of magic, excitement and innocence back into everyday lives and by doing so, allow to share them with friends and loved ones.

#### The Deer Head

The Deer Head lamp is a wall-mounted light fixture that can be used to light a multitude of spaces. It's a classic, nostalgic wall piece given a contemporary and sophisticated interpretation.

When lit, the Deer Head lamp creates a magical ambience. It is perfect for any situation; romantic moments in intimate spaces or magical fantasy in a child's bedroom.

The gold aluminium deer head is a decorative lamp, made of painted, folded aluminium and steel. It is 39CM long x 35.5CM when switched off. When lights are on, it becomes 75cm x 70 cm of light and brilliancy.

#### About The Brand

'Popup Lighting' is a young Tel Avivian company lead by Chen Bikovski and Sarig Shinar, specializing in lighting fixtures under the concept of lighting transforming into different fixtures in an artful way.

Popup Lighting was made to bring a unique ambience to any space. The game of light and space turns the lamp into a work of art, painting itself all over again every time it's lit.

With a simple flip of the switch, beams of light turn into brush strokes turning the lamp into a work of art that dramatically changes the atmosphere, setting the mood and sparking the imagination.

For more information, visit [popuplighting.com](http://popuplighting.com).



# The Next Generation of City Management

Schröder Owlet IoT City Management System is not only a high performing remote lighting management system, it can also exchange data or interoperate with neighboring systems such as traffic management sensors, environmental monitoring systems or security devices.

By **Schröder**

The Internet of Things (IoT) is the network of physical objects, devices, vehicles, buildings and other items embedded with electronics, software, sensors, and network connectivity, which enables these objects to collect and exchange data. The IoT allows objects to be sensed and controlled remotely across network infrastructure, creating opportunities for improved efficiency, accuracy and economic benefit. Each thing is uniquely identifiable through its embedded computing system but can interoperate within the existing Internet infrastructure. The IoT is directly related to applications such as smart grids, intelligent transportation and smart cities.

Schröder Owlet IoT City Management System, which is based on Open Standards, can interact with larger smart city platforms. Owlet IoT is not only a high performing remote lighting management system, it can also exchange data or interoperate with neighboring systems such as traffic management sensors, environmental monitoring systems or security devices.

One of the fundamentals of IoT (Internet of Things) is that the devices intended to be connected to a larger network communication platform have to be addressable in a similar way. The structure of the address which is attributed to this latest generation of luminaire controllers managed by Owlet IoT is called IPv6. This method of addressing devices can generate an almost unlimited number of unique combinations to connect non-traditional components to the Internet or computer network. Owlet IoT is not a stand-alone 'silo type' system, but future oriented and open to 3rd party integration.



### EASY SET-UP

Thanks to the combination of a built-in GPS antenna and an intelligent auto-commissioning process, it is a real Plug and Play solution.

### SMART HYBRID ARCHITECTURE

The heart of the system is the full hybrid concept which provides the best of both worlds. It consists of a strong local mesh network between the luminaires and the sensors and a robust backhaul communication with the system servers.

### COMPATIBLE WITH SENSORS

Different types of sensors like PIR and radars are connected directly to the luminaire controller. Switching the light levels from the lower 'idle' state to the higher 'event' state during the night, increases the visual performance as well as the level of comfort while maintaining or even increasing the potential energy reduction.



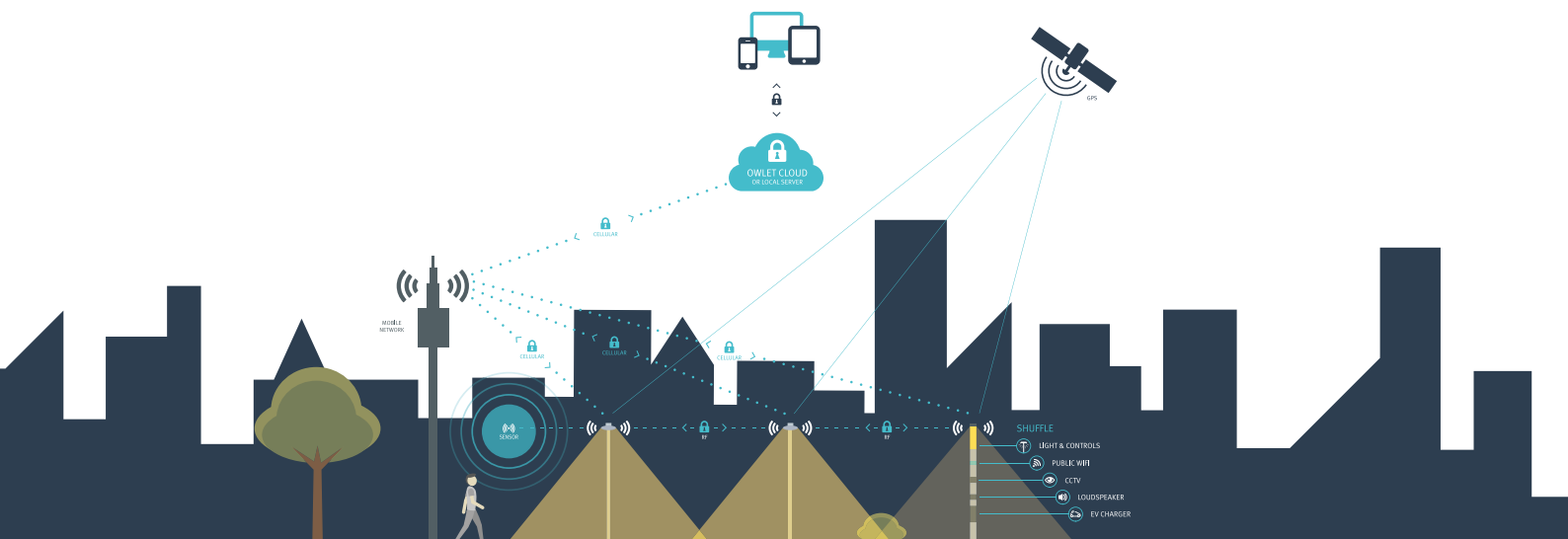
### INSTANT GPS LOCATION

A built-in GPS accurately locates the luminaire position. This feature simplifies the set-up and commissioning process to a large extent. It also detects location changes e.g. following maintenance.



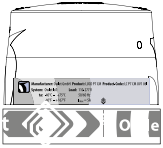
### EFFICIENT ASSET

The Owlet IoT luminaire controller incorporates a unique feature to capture the characteristics of the lighting scheme. This data and the precise luminaire position provided by the GPS feature determine the luminaire light profile for the given location.



### PLUG-AND-PLAY LUMINAIRE CONTROLLER

The Owlet IoT luminaire controller is based on the 7 pin NEMA socket. The node can be easily plugged in and replaced without any tools.



LUCO P7 RFID



#### PRECISE ENERGY CONSUMPTION MEASUREMENT

The nodes incorporate a built-in utility grade energy meter that offers the highest metering accuracy available on the market today (<1% for the complete dimming range).



#### SAFE FALL-BACK SCENARIOS

As safety for all is the primary objective, multiple technologies ensure that the system is switched on and off in complete security.



#### INTUITIVE USER INTERFACE

The Graphical User Interface (GUI) was developed with the latest web-based application tools. Every user can organize his/her dashboard in such a way that the most relevant topics or parameters appear first.



#### OPERATIONAL BENEFITS

One of the unique assets of this dynamic lighting management system is its capacity to implement, adapt and reproduce lighting profiles and driver settings, which are typical for public lighting networks. Thanks to Schröder's experience and in-depth expertise as an outdoor lighting specialist, the Owlet IoT system provides extended operational features which simplify maintenance.

### Owlet IOT project: San Jose, USA

Switching to energy efficient LED luminaires fitted with the Owlet Nightshift System, the city of San Jose, California has reduced its energy costs and CO2 emissions by 47 percent. The city of San Jose has achieved a milestone in one of the largest streetlight conversion projects ever launched in the U.S.A.

The city's aim is to get electricity consumption for street lighting down from 34 million kWh in 2007 to just 17 million in 2022, and to use electricity from renewable sources.

The city has started to retrofit more than 18,000 fixtures equipped with low and high-pressure sodium lamps to energy efficient LED luminaires equipped with the Owlet Nightshift control system.

This project is an important goal of the city's award-winning San Jose Green Vision, which aims to enhance visibility and safety at night while reducing energy and carbon emissions. Schröder is honoured to help the city of San Jose to achieve this milestone.

A total of 18,127 luminaires are replaced at a stretch of 128kms in the south-east area of the city.

The smart lights are equipped with a LuCo-PD a technique which enables the luminaires to extend their basic lifetime by reducing the initial level of light (to avoid over lighting). It will also be dimmed during the night when there is little traffic on the roads so that they will use up to 60 per cent less electricity than the sodium based lamps.

A total of 6,000 of these smart luminaires were installed for the in February, 2017. The entire installation will be finished for May.

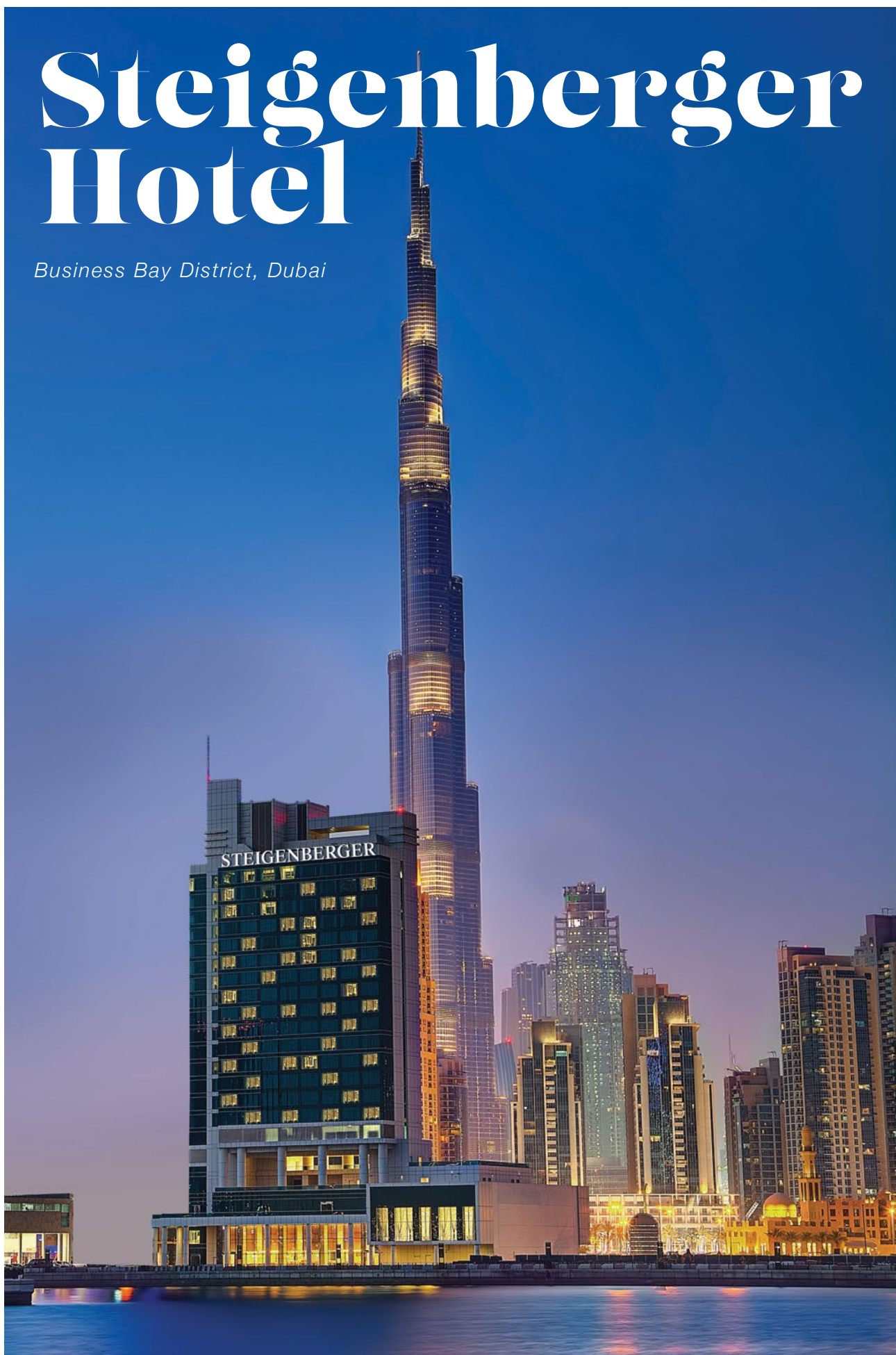
The Mayor of San Jose, Sam Liccardo stated "We are celebrating a greener, brighter, smarter San Jose."



San Jose, USA

# Steigenberger Hotel

*Business Bay District, Dubai*





Situated in Dubai's Business Bay District, a short stroll from The Dubai Mall and the Burj Khalifa, Steigenberger, a cosmopolitan hotel with a German touch is the first property from the Deutsche Hospitality brand in the GCC region, featuring elegant and classy designs with aristocratic ambience, the newly opened 5-star Hotel meets the demands of both leisure combined with German precision and efficiency. The hotel is home to excellent dining venues including Bayside Restaurant & Terrace, serving freshly prepared international dishes; Das Café for stylish afternoon tea; Swim & Tonic pool bar and lounge with breathtaking views of the Burj Khalifa; Neunzehn, an eclectic executive lounge serving all executive room and suite guests; Brothaus, a German Bakery-Bistro serving freshly baked German bread, pastries and healthy specials; and The Backyard, the city's most unique new street-art inspired outdoor venue, with an urban garden with a cool street feel offering food truck inspired South East Asian menu & edgy cocktails.

Our Group CEO Althaf Ali mentions "Illumination for mega structures is a matter of sophistication in Dubai, particularly for the hospitality industry. There has been a shift towards whole fixture solutions that utilize energy efficient LED technology to bring about important cost and energy savings in the hospitality industry. Designers and architects are testing new solutions and possibilities that can take the adventure of decorative lighting to another level far beyond the foreseeable or ordinary. Present inclinations in the lighting field are oriented towards progressively comfortable solutions that conform to the aesthetic and functional needs of the customer with contemporary and timeless design."







LWS Lighting Solutions (LED WORLD's project Department) Project Manager Mr. Shanil Basheer comments "We were approached by the Hotel's Project Department head to entirely plan the basic design for their external facade lighting as well as illuminating the backyard coffee shop. Our lighting designers, engineers, closely worked with Harrison Consultants to lay down each archaic detail for rendering a gleaming display for the hotel during the nights. We supplied an array of products from neon flex lights with RGB controllers, Façade linear wall washers, spike lights, in-ground lights and double asymmetric washers, LED digital screen, LED festoon bulbs, outdoor spot lights and down lights. We mounted LED Strips with opal diffuser along the facade projection at bottom and top columns to create a halo effect.



Linear LEDs were floor mounted against the wall uplighting the internal space visible through the plant room louvers. Strip lights were laid underside of the soffit above the terrace area for a floating effect. We installed Spikes LED uplights to illuminate the flags at the entrance, in-ground LED lights to illuminate the main car entrance. The backyard café was illuminated with festoon white cable lights with golf bulb lamps hung loosely from the pergola structure. Trees were draped with Fairy light wraps and spike uplights, LED downlighters were installed for column planting and planter illumination. The cafeteria walls were embellished with black wall mounted spot lights while the edges were laced with color changing RGB Led strip lights that are adjustable.”



With all the meticulous picked light fittings and designs, the hotel stands dazzled with a spectrum of lights creating a deluxe convivial view, perfectly standing out from the dark skies at night. General Manager Valentin Boyanov mentions “The brand new Steigenberger Hotel is assured of benefits of LED high-performing, state-of-the-art luminaires. The new lighting scheme transforms the façade and backyard into a brightly-lit and warm welcoming space, now operating at half the energy costs of traditional fluorescent lighting. The Hotel will operate in an efficient and eco-friendly way, enhancing the travelers stay experience and working environment

for staff whilst boasting a bright and attractive lighting for a spectacular view.”

Steigenberger Hotel Business Bay, Dubai, Celebrated their First Anniversary in Style as it picks up Two Prestigious Awards. It won the award for the Hotel Lighting Project of the Year at the Light Middle East Awards 2016 and also the Best Luxury Business Hotel in the UAE award at the World Luxury Hotel Awards. The hotel also picked up the Leading New Hotel award at the Leaders in Hospitality Awards 2016.

For more information, visit [www.ledworld.ae](http://www.ledworld.ae).





# Kadeejeen Lighting Installation

Bangkok, Thailand

Lighting Designers & Solution: Lighting & Equipment Public Company Limited (L&E)

Photo Credit: Lighting & Equipment Public Company Limited (L&E)



*Santa Cruz Church Waterfront Pavilion*



*Wat Prayoonwongsawat Waterfront Pavilion*

Kadeejeen-Klongsan district is the oldest neighborhood by the Chao Phraya River in Bangkok. It was established more than 400 years ago in 1569 when the Chinese, western and Muslim merchants including the Portuguese that joined the war with the King of Thonburi during that time settled down by the river on Thonburi side. This has become a small community, and the respectful religious places have also been built such as shrines, churches, temples and mosques. All of these ways of life still remain because of the strength and unity of the neighborhood. The variety of cultures becomes the character of the neighborhood, which makes Kadeejeen-Klongsan well known as a chic tourist destination. City people go there to experience the vintage nostalgia, taste the famous Kadeejeen western snacks, try Portuguese food, drink coffee, visit churches, mosques, temples and museums.

Every year, there is an art and culture festival at Kadeejeen neighborhood called 'Kadeejeen Art in Soi Festival', organized by the Association of Siamese Architects under the Royal Patronage, that focuses on the use of art for the consolidation and participation of the neighborhood and development parties in the conservation and renewal of this historic area. There are exhibitions and seminars about art, landscape design improvement, lighting, music and various

local cultural performances including trade fair for the neighborhood products. In 2012-2014, L&E had a chance to be a part to create works of art in a form of temporary lighting installation for this festival. L&E was assigned to design and create the works in many feature areas along the river, for example, Kian Un Keng Shrine area, Santa Cruz Church waterfront pavilion, Wat Prayoonwongsawat waterfront pavilion, etc. These buildings and areas were lit with different concepts to convey and communicate the stories of each place and the believes of each religion. The selection of the colors of light, lighting effect and various lighting techniques could draw people in, created atmosphere and very much impressed the visitors. The concept of lighting design for each year is different- this article elaborates L&E's work in 2012 in details as follows:

#### **Wat Prayoonwongsawat Waterfront Pavilion**

Since the pavilion is the transition space where visitors must pass through to Wat Prayoon, RGB Color Mixing technique is then used to add interest by illuminating 3 colors of light from different directions. When there is nobody walks pass the area, the lights will combine to white light, but when there are people passing, there will be various colors of shadows. There is also a hidden meaning in Buddhism in these lights about contemplation, discretion and selflessness.





**Santa Cruz Church Waterfront Pavilion**

The lighting design at this area demonstrates a chapter from the bible about 'the magic star', which is the star that leads the philosophers to Jesus. The nighttime sky blue color lighting is used to illuminate the pavilion, coupled with the sparkling lighting effect of stars from the reflection of the mirror balls. There is also an effect of reflective light on the walkway as a leading light to the church, by using the reflection of the mirrors that are placed intermittently. In addition, there is also a handmade gobo projection in rose window shape of the church lit up at the ceiling of the pavilion, which is how lighting unifies the place together.



### Kian Un Keng Shrine

The lighting design at this area is done by using red color, which is an auspicious color from Chinese beliefs to cover up the shrine. Red conveys light, warmth, strength and glory, while the dragon sculpture is lit with white light to stand out as the Chinese considers that dragon is a symbol of strength, power and mightiness. Moreover, the trees in the shrine compound are fully decorated with orange-color globe lights, which are made of table tennis balls with LED illuminated inside. These are the metaphor of 'orange', which rhymes with Chinese word meaning luckiness or auspiciousness. ■

#### About L&E

*L&E is a lighting equipment manufacturer and lighting solution provider based in Bangkok, Thailand. We have been specialists in lighting for more than 20 years and engaged in many prominent projects in Thailand and other Asian countries. For more information, please visit [www.lighting.co.th](http://www.lighting.co.th).*





# Kochi Racecourse

Kochi City, Kochi Prefecture

Lighting Solution: Iwasaki Electric Co Ltd  
Photo Credit: Iwasaki Electric Co Ltd



*LED light illuminates the racehorses as they dash from the 1st turn towards the 2nd turn, creating a pleasant night-race environment that takes glare into account*

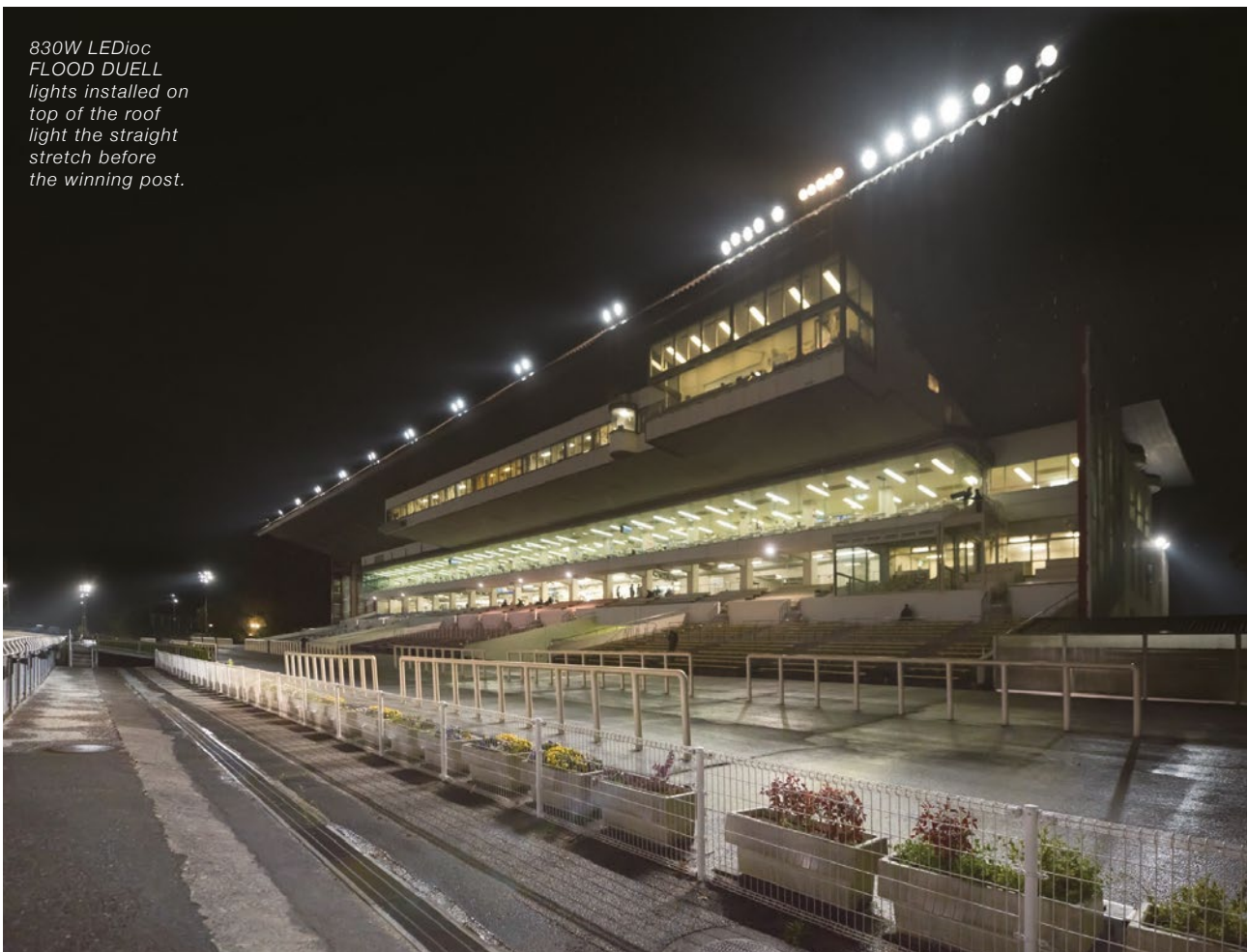


*The 830W LEDioc FLOOD DUELL high-output LED floodlights installed on the light poles*

Kochi Racecourse started holding its night races (Yosakoi Night Races) from July 2009. The racecourse put night-race equipment in place due to the current continued deployment and enhancement of internet infrastructure, and also due to a strong desire to have horseracing fans from all over Japan enjoy Kochi Racecourse even more."

In the spirit of "giving back to the fans who visit," Kochi Racecourse changed its night-race lighting to brighter and more-visible LED lights, and also introduced a membership system enabling cashless purchasing of betting tickets. The objective for the change to LED night-race lighting was a reduction in power consumption, and after various testing, 830W high-output LED floodlights were selected.

The existing 283 units of 1500W multi-metal lamps were upgraded to 240 units of 830W LEDioc FLOOD DUELL lights, leading to an overall reduction in power consumption of roughly 40%. The previous level of brightness has been preserved while reducing the amount of equipment, and the initial brightness compensation function has enabled maintaining a constant design brightness from the time of initial installation until the end of the lighting's operating life.



*830W LEDioc FLOOD DUELL lights installed on top of the roof light the straight stretch before the winning post.*

*The exciting scenes on the straight stretch before the winning post are illuminated with 830W LEDioc FLOOD DUELL lights in a bright and easily visible lighting environment.*



During the installation of the LED floodlights, the angles of the lighting equipment were adjusted as much as possible to not face the stands. Sufficient time was also spent on adjusting the angles of the floodlights so that there would be no impact such as glare from direct light from the LEDs on riders or racehorses, and also to take light-bleed into the surrounding areas into account. Since the upgrade to LED lighting, there is an improved sense of overall brightness, and the racecourse believes it has contributed to power savings while creating a pleasant lighting environment to charm horse-racing fans.

For more information, visit [www.eyec.co.jp](http://www.eyec.co.jp). ■



# Université de Montréal

Montreal, Québec

Architects and Lighting Designers: **civiliti**

Engineers: **Groupe S.M. International**

Architectural Team:

**Peter Soland** (*Lead Architect*)

**Fannie Duguay-Lefebvre** (*Lead Urban Designer*)

**Pascal Forget** (*Project Architect*)

**Etienne Ostiguy** (*Project Architect*)

Engineering Team:

**Marc Mousset** (*Lead Engineer*)

**Tuong Phong Huynh** (*Lead Electrical Engineer*)

**Petrica Voinea** (*Lead Structural Engineer*)

Client: Service de la mise en valeur du territoire, Ville de Montréal,  
Service des infrastructures, de la voirie et des transports, Ville de Montréal





In forthcoming years, the University of Montréal, one of the city's major institutions, will be opening a second campus located on a former railway yard. Existing tracks had to be relocated in order to accommodate the new facilities and a new viaduct was built over the campus' future access road. The site was dug to allow the underpass, then bermed up slightly to accommodate the 24-metre steel bridge structure. The reinforced concrete abutments extend into zigzagging retaining walls, creating a dynamic mineral landscape.

The 44-metre guardrails on either side of the viaduct were made in four sections: they are steel-framed assemblages backed by perforated steel plaques, coated with metalized paint. The diagonal steel plates recall the triangulated motif of more traditional truss bridges. A similar motif was developed for the protective railings along the sidewalks below.

**The viaduct's unique signature transforms it into a subtle landmark on the campus**

Facing the campus, the viaduct acts as a backdrop that comes to life at night when four light 'tableaux', inspired by Sol LeWitt's Wall Drawings, appear and disappear in the dark. These, generated by 135 LED light bars inserted on the diagonal grid of the west guardrail, are programmed to produce ephemeral patterns in constant movement. The chosen theme for this virtual animation is that of the four seasons: drops of rain, followed by snowflakes, allude to the fall and winter seasons; creepers announce the spring and fireflies celebrate the summer.

The east guardrail is treated in a more static but no less dramatic way. At night, the upper structure appears to float above its sculptural base, every detail emphasized by lighting. The geometric pattern used for the architectural guardrails is reproduced on the railings protecting the parallel sidewalks, below the viaduct.

Responsible for the architectural and lighting treatment of this bridge, the designers believed that a subtle and poetic use of light would resonate within the heavily transformed environment. They hoped to draw attention to the railway yard's history, soon to be totally eradicated with the advent of new university pavilions and urban streetscape.

#### **About civiliti**

Founded by Peter Soland and Fannie Duguay-Lefebvre, civiliti (called Urban Soland from 2001 to 2015) is an award-winning firm, responsible for numerous public spaces in Montréal, Québec City and Ottawa. Known for its ability to design contemporary interventions respectful of historical city fabric, the firm has received numerous awards over the years. In 2017, two of civiliti's projects, the Outremont Campus Viaduct and the Bassin-à-gravier Park were granted awards (Grands Prix du Design de Montréal). The firm is also one of the 2017 Azure Awards' finalists for its Outremont Campus Viaduct project.

For more information, visit [www.civiliti.com](http://www.civiliti.com). ■





# McBride Charles Ryan

Victoria, Australia





**M**cBride Charles Ryan of Melbourne, Victoria, Australia, has been announced as the winner of the WAN Colour in Architecture Award 2016 for their Ivanhoe Grammar Senior Years & Science Centre, a project that places a vibrant and engaging use of colour at the heart of the design concept.

The WAN Colour in Architecture Award celebrates projects that harness colour to dramatically transform a building or enhance the experience for its users and community. The winning design was selected from a shortlist of six entries by an expert judging panel. This year's jury, chosen for their knowledge and experience in this category, were: Karen Haller, Applied Colour Psychology Consultant at Karen Haller Colour & Design, Morag Morrison, Partner at Hawkins\Brown, Per Nimer, Design Manager at Akzonobel and Zlatko Slijepcevic, Director of EPR Architects. After



assessing the shortlist in depth, the judges were unanimous in their admiration for this project, which they considered a standout winner for successfully expressing a design philosophy that treated colour as a key consideration throughout.

The brief for this new school building included a variety of general learning areas, provision for the senior year teachers and a science centre. The circular shaped plan had an appropriate civic quality based on the school's original masterplan. However, rather repeating the circular pattern inside, the designers chose to use geometry and colour to define the central courtyards, light wells and learning spaces. The sharp angles and vivid colours of the interior form a dramatic contrast with the round form and muted tones of the drum-like outer structure. At key entry points, the drum is 'eroded' to reveal the wonders of science and learning expressed through this vibrant design. Per was delighted by the surprise of the coloured inner spaces as revealed through these openings, and went on to say: "I think that what fascinates me - and what makes it a winner - is that this project is obviously about colour from the start." The designers were inspired by the idea of an eggshell hiding an inner core, and by kaleidoscopes, where a view inside reveals seemingly infinite combinations of colour and pattern. Karen appreciated this approach, saying: "It does look like an egg and when you break it open, there's this jewel of colours in the middle."

The contrast evident in the building's language encapsulates contemporary methods for a well-rounded education. The classic circular form represents the order and certainty of knowledge, while the building's expressive and complex inner world represents the uncertainty of modern life and scientific understanding, and the necessity of wonder and imagination to see us through. Zlatko praised the accurate response of the design to its context as a school building, combining the serious with the playful. Morag also noted the building's effectiveness in its particular location, stating: "I think that it works in the context of Australia, where there's bright sunshine. For kids, it must be brilliant."



Overall, the judges agreed that this project exemplified the Award's aim to champion designs using colour to create a more dynamic and communicative built environment. Karen said: "For the whole premise, that there's an architectural firm looking to bring colour to the beginning of the design and not at the end - that's to be commended."

#### About McBride Charles Ryan

MCR has one passion - providing exceptional design for their clients. MCR's commitment to provide their clients with innovative solutions, technical excellence and personal and professionalism has generated a steady growth in the reputation of the architecture firm since 1988.



MCR has successfully managed projects with budgets of up to \$1B, combining complex architectural form with the finest construction technique and the most demanding programs. MCR has experience in many areas, having undertaken and realised work in all sectors, and this has been recognised by a variety of awards.

McBride Charles Ryan prides itself in its hands-on approach to its projects and believe that its buildings are bespoke manifestations of the clients' vision and it is due to this approach that MCR's designs are truly singular.

For more information, visit [www.mcbridecharlesryan.com.au](http://www.mcbridecharlesryan.com.au). ■

# Circus Conservatory

Maine, USA

Partners in charge: Eric Höweler, Meejin Yoon of Team HYA

Project Team: Kyle Coburn, Elle Gerdeman, Evan Farley, David Hamm of Team HYA

Partners in charge: Spela Videcnik, Rok Oman of Team OFIS





The Circus Conservatory building will house America's first accredited degree program in Circus Arts. As the anchor tenant of a peninsula, the new site plan will transform an undeveloped section of Portland into a vibrant artistic center complete with public performance venues and recreational facilities.

Historically, the circus floor was shaped by the radius of a walking horse on a tether, defining a circle with a radial audience, creating a culture of multi-directional performances, which persists today in contemporary circus and theater. The introduction of educational programs into the circus typology challenges the viewing relationships critical to circus and academic settings. With the hybrid proposal for the new Circus Conservatory of America, where acrobatics, performance, and classrooms are equal, the design utilizes this radial viewing strategy in order to similarly activate the educational community; to engage with the public, the city, the landscape and each other.

Several large acrobatic training halls, with transparent ends act as oculi through the circular plan. These provide dramatic views of the Fore River and connect cross-courtyard performances. Media areas, libraries, a cafe, and circulatory flex areas between the training halls are designed in a continuous interactive loop, which oscillates between training, group studying, socializing,

and private practicing. Public circulation is woven through as patrons enter below the raised loop and into the large public auditorium. Together, the public and students are engaged via the formed underbelly which acts as a dynamic outdoor theatre and plaza.

The Circus Conservatory of America is a collaboration with OFIS Arhitekti.

#### About Höweler + Yoon

Höweler + Yoon is an internationally recognized architecture and design studio, founded by principals Eric Höweler and Meejin Yoon. Originally known as MY Studio, our multidisciplinary practice operates in the space between architecture, art, and landscape. They believe in an embodied experience of architecture, seeing media as material and its effects as palpable elements of architectural speculation. While their work lies at the intersection of the conceptual and the corporeal, Höweler + Yoon are committed to both the practice-of and prospects-for architecture. Engaged in projects of all scales, they are interested in the material realities and material effects of their work. From concept to construct they are determined to realize the built idea and to test projects through the dynamic interaction between the construct and the larger public.

For more information, visit [www.howeleryoon.com](http://www.howeleryoon.com). ■

# Magmode

Hangzhou, China

Project Name: **Magmode of Hangzhou Kerry Center store**

Type: **Retail**

Design Company: **RIGI Design**

Chief Designer: **Liu Kai**

Area: **600m<sup>2</sup>**

Photographer: **James Chan**



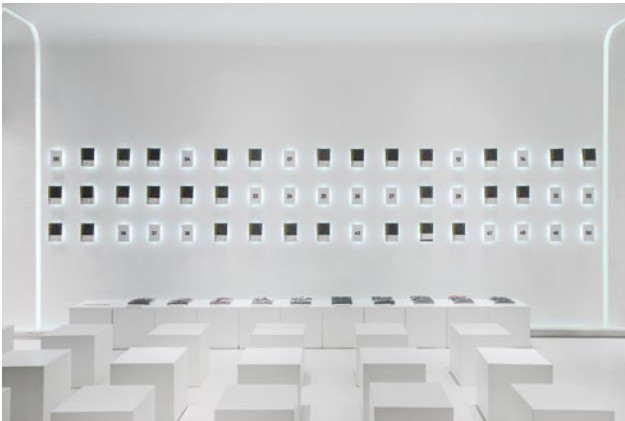
There are many ways to express a brand; It could be a monotonous expression, or a diversified presentation. It is similar to magazine in this regard. A magazine has a unified tonality and values, it starts contact with readers through different contents, but a brand connects to clients through different products. It's logicity, upgrade ability, and continuity have something in common.

Magmode is a brand that combines works of many designers, thus a unified concept is needed to express the logicity of the whole brand. In the design of Magmode, RIGI hopes to build a new concept in the terminal: a three-dimensional magazine, a readable store.

RIGI defines different areas of the space as different sectors of a magazine. The shop signage is the cover of a brand, and there is a content of the newest seasonal designs at the entrance. Every display area is defined as different pages, which presents different contents in the space just like a magazine does. The concept of regular updates could be seen everywhere. The background wall of the brand is defined as brief seasonal introduction of the magazine. The whole design forms a unified concept; a unified multi-element.



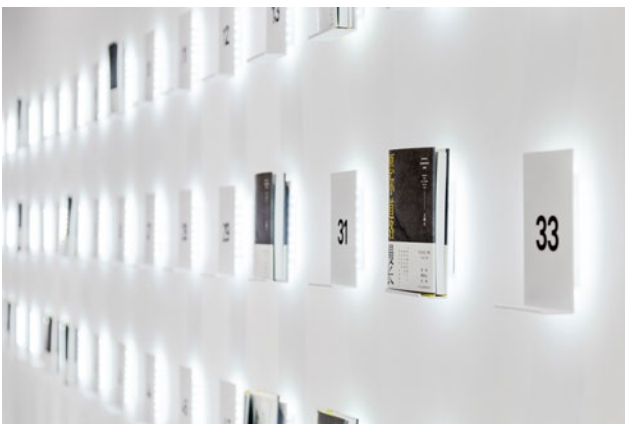




The most important thing is that the space accurately expresses the tonality and concept of the brand. In RIGI's concept, space should have diversified communication with people, updated contents provides more possibilities to the space and people's experience.

Since opening, magmode of Hangzhou Kerry Center store has received great attention from consumers, and it has been a hot topic in public communication.

Against the current situation of overall downturn environment for physical stores in recent years, magmode of Hangzhou concept store is an exploration of China's future business model and a possibility of cultural lifestyle in China's future business development by RIGI and magmode.



### About RIGI Design

RIGI Design is a comprehensive design team consisting of young designers. The scales of RIGI's works vary from millimeter to kilometer, and the fields cover brand, space, vision, and product design. As one of the most creative design team in China, RIGI always insists our unique design languages and design philosophy; concerns about the behaviors and experiences, which changes with the spirit of times, commercial trends and lifestyles; cares about the relationship between people and life, and tries to convey our design insight into our works.

RIGI focuses on the creative design and blending of brand, space, vision and living places. In RIGI's design, space and vision don't appear simply in category; through logic analysis and carding, we take people's true feelings as our design source; taking advantage of the combination of perceptual visual methods and space shapes, we form our distinct RIGI Style. With life terminal as the core, RIGI achieves the transformation of design philosophy and value through strategic scenario-based design method.

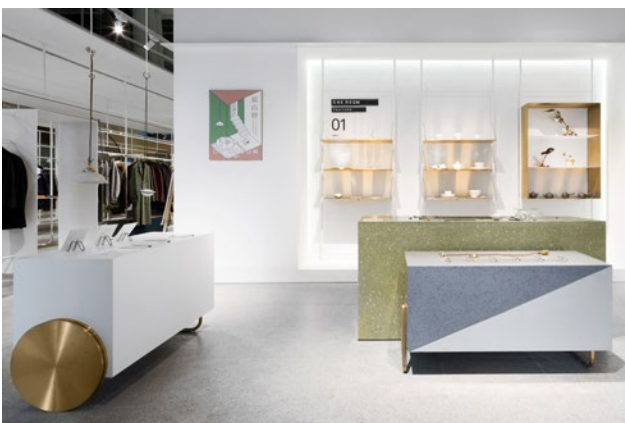
### Liu Kai, Founder of RIGI Design

Liu Kai was born in Qingdao, China. He was graduated from Donghua University in Shanghai and his major was Environmental Art Design, and now he is a MA student supervisor of Donghua University. Liu Kai is the founder of RIGI Design, and Founder and Creative Director of an original fashion brand — L-HOUSE.

Through his concern about the spirit of times and lifestyles, Liu Kai creates a connection of the emotions and needs between design and users with the design philosophy of life terminal, and forms his unique design style combining the space and vision, and transforms the complete design insight into the design work.

Liu Kai has completed many successful creative works in brand design, space design, visual design, and product design. Many of his works have been widely published in internationally well-known design and life publications, and have also won many awards in famous design awards from China and abroad.

For more information, visit [www.rigi-design.com](http://www.rigi-design.com). ■



# Nota Bene

Toronto, Canada

**Client:** Nota Bene Owner / Chef David Lee

**Designers:**

**John Tong** (*Executive Creative Director and Lead Designer*)

**Lisa Mann** (*Creative Director*)

**Kateryna Nebesna** (*Designer*)

**Builder:** RIGI Design

**Photographer:** Lisa Petrole





Award winning interior design firm +tongtong has collaborated with renowned Owner/Chef David Lee to renovate the interiors of Nota Bene, an established fine dining restaurant that was originally designed by the buildings Architects KPMB. While remaining in Toronto's popular Queen Street West neighbourhood, the reimagined Nota Bene features an all-new design. +tongtong developed a concept inspired by Chef David Lee's new menu ideas centered on seasonal ingredients. +tongtong expands the idea of the changing of the seasons to a concept of change itself. The design integrates elements that celebrate the beauty of change, by the powers of nature and by the ingenuity of man.

Queen Street West is animated with fashion retailers, hardware suppliers, and variety stores. Along this stretch

is also home to the Much Music broadcasting studio, The Canadian Opera House and the National Ballet of Canada. Upon entering the Restaurant patrons are greeted by a statuesque tree. The trunk is of a fallen Ironwood tree resurrected from the floor of a Southern Ontario forest and treated with the ancient Japanese process of Shou Sugi Ban, a technique in which wood is preserved through carbonization rendering it matte black. The tree's canopy floats effortlessly above with a rhythmic gesture inspired by the natural phenomenon of murmuration. This gestural expression is presented in geometric form using 3-D printed technology. Reaching the wood trellised ceiling above, the art piece titled Fuga, defines the entrance from the new bar area adjacent and introduces the anticipated drama further into the new space.



Chef Lee felt the original bar area lacked energy and connection to the rest of the dining space and the urban nature of the neighbourhood. +tongtong utilizes 2 large scale elements that now connects the bar to the street and the dining room while maintaining defined and differentiated spaces. A reflective black ceiling stretches the length of the room overhead, deep and mysterious, the inverted pond offers an aerial view of dining room activity. A 43ft glass rail separates the new bar and dining room. Laminated within the glass +tongtong created an abstract graphic mirror of a beehive and bees collecting honey. A layer of dichroic film renders the surface iridescent “like the wings of butterflies” says +tongtong Principal John Tong. The partition doubles as a mirror that reflects the street life into the bar area and a perforated screen maintaining transparency to the dining room.

Another feature linking the two areas is a custom-designed wine display back lit and framed behind a glass wall. Columns of voluptuous vegetable-tanned and oiled leather saddles gently cradle bottles of wine. The effect resembles young buds clinging to vines showcasing Chef Lee’s vast wine offerings.









Nota Bene's dining room, known for its luxurious ambiance wanted to offer a new yet equally refined experience. +tongtong created an installation of over 70 tumble weeds sourced from Nevada. While seemingly fragile these deceptively tough and well-traveled entities migrate across the ceiling of the entire dining room injecting an airy touch of endearing whimsy to the room.

The energy of the previously closed kitchen is now exposed through a translucent macro-photographic mural of a fantastical space deep inside a chunk of glass, a material created through the alchemical process of intensely heating sand. Glass is considered a live material and is in perpetual motion.

The iconic white linens of fine dining are replaced with custom designed Corian tables which drape over a frame then centered with playful inserts of walnut resembling bubbles cuddling together. In the bar area the tables have removable serving platter inserts for never ending list of breads, charcuterie and bar snacks.

The entire renovation took a year of planning and three weeks of onsite construction.

"Nota Bene is a well-established brand with very loyal followers. +tongtong was mindful in reinforcing Chef Lee's vision while bringing a new experience to a broader audience. We aimed to give the space the sensuality of material while maintaining a very sleek, architectural approach," says Tong. "It's a balance of warmth and modernity."



**About +tongtong**

+tongtong is a visionary interior Design firm led by Principal John Tong (B. Architecture from University of Toronto). The firm creates thoughtful concept driven spaces and objects. Their portfolio includes restaurants, bars, hotels, retail, custom homes and residential development projects in North America and Europe. Recently completed are the award winning Drake Devonshire Inn, Her Majesty's Pleasure, Barsa Taverna, Batch for Molson Canada and Zn house. +tongtong is currently working on multiple projects for the Drake Hotel Properties including a commissary and café, a "day-to-night" mini bar, and an expansion of the existing Drake Hotel with Diamond Schmitt Architects. Other projects includes a hotel in Sweden, a luxury cottage in Muskoka with Star Architect Todd Saunders and various multi-residential development projects across Canada.

+tongtong has received numerous international Awards & Accolades including: The James Beard Awards nomination for best restaurant design, Hospitality Design HD Awards including Best of Show, Best Spa, Best Guest room, and Best Hotel, and Gold Key Awards for Best hotel and Best guest room. It was also the winner of the best bar at the Restaurant and Bar Awards and nominated for best small retail and best small house by ID magazine. In Canada, +tongtong has been presented with several awards by the Design Exchange and Best of Canada as well as Best Restaurant and Best Hotel Suite from EnRoute Magazine.

For more information, visit [www.tongtong.co](http://www.tongtong.co). ■

# Corrs Chambers Westgarth

Melbourne, Australia

Completion: 2015

Area: 8,500 sqm

Lighting Designers: Electrolight

Architects: Bates Smart Architects

Photo Credits: Peter Clarke

Renders and Sketches: Electrolight





Leading law firm Corrs Chambers Westgarth's new Melbourne office is located over five floors from levels 22-26 in the innovative and unique centerpiece building at 567 Collins Street. Corrs' Reception is situated on the 25th floor, with spectacular views over Melbourne's skyline from the floor to ceiling glazing. The feature staircase rises through the central void, linking reception with classic but contemporary mixed-use casual dining areas.

Electrolight were appointed to provide a lighting scheme to realise Corrs' vision of a sophisticated and timeless aesthetic, with a focus on the Reception Void and casual entertaining areas. Adding to this the primary consultation spaces, including fifteen meeting and boardrooms, unite Corrs' interface and consultation offering.

#### Reception

The steel rods that span from ceiling to floor framing the stair of the ten meter high void are flanked with linear LED with acute optics to provide focused lighting to the stair and primary circulation space below.

During the daylight hours the south facing Reception Void on level 25 and casual entertaining areas on level 26 receive significant amounts of natural light. Artificial lighting was a key component in allowing the core lift lobbies, meeting rooms and corridors to connect with the natural light flow throughout the tenancy.



### Corridor

The skilled team at Bates Smart Architects meticulously pieced together elegant spaces and finishes with a multitude of refined detailing. Electrolight had to ensure that intrusions were minimised amongst the clean, sleek lines and subtle folded forms.

A deep level of planning and coordination between Bates Smart and Electrolight was necessary for light placement, concealment and performance.

### Dining Room Feature Pendant

The feature pendants in the casual entertaining area are a bespoke solution that was designed to complement the architectural forms and finishes.

The geometric angles offer a subtle reference to the undulating timber wall, as the finish and frame reflects the delicate structure of the shelving behind. This custom luminaire design carries through to the adjacent boardroom at a smaller scale to provide a more intimate setting for evening meetings with key clients.

### Café

The lighting designers worked with a blend of colour temperatures to distinguish each space to reflect its functionality. Cooler temperatures are utilised in the meeting rooms, combined with warmer colour temperatures throughout the casual entertaining and Reception void areas adding to the relaxed mood and sophisticated ambience.

### Awards

IESANZ International Award of Excellence for Lighting Design 2016  
 IES Victorian Award of Excellence for Lighting Design, Corrs Chambers Westgarth 2015  
 WIN Award Winner - Lighting Projects 2016  
 Interior Design Excellence Awards (IDEA), Workplace over 1000sqm, Highly Commended 2016  
 Australian Interior Design Awards (AIDA), Workplace Design, Commendation 2016

### About Electrolight

Electrolight is a design studio dedicated to making a difference through light.

Electrolight believes that light has the power to change lives. Regulating bodies, fuelling emotions and inspiring the soul. They are intrinsically fascinated by the way in which one sees and experiences the world. Central to that is vision – and by definition – light.

Sculptors of light and curators of the visual realm, Electrolight draw talent from the best creative minds in the design industry. They leverage technology so that their practice transcends geographic borders; the team is united by a belief that their work makes a difference.

Founded in Melbourne in 2004, the practice has grown to include studios in Sydney, San Francisco and London. Electrolight's London studio is branded 18 Degrees. Like all siblings, each have their own individuality that is embraced and encouraged, making Electrolight a global family spanning 3 continents.

The practice is dedicated to providing their clients with creative and technical excellence in all aspects of lighting design. With over 500 projects ranging from theatres to art galleries, restaurants to retail outlets, excellence in design, thorough documentation and creative concept presentation. Their commitment to the collaborative process with architects, clients and project teams is paramount and is mirrored in the strong relationships they have fostered and nurtured with suppliers, custom manufacturers and allied consultancies.

For more information, visit [www.electrolight.com](http://www.electrolight.com). ■



# Helly Hansen Brand Store

By Vossloh-Schwabe  
[www.vossloh-schwabe.com](http://www.vossloh-schwabe.com)

Helly Hansen is a well-known Norwegian manufacturer of clothes and special gear for sports. The products are famous for quality, so the company maintains very high requirements to the hardware in its stores. When presenting products, lighting plays a critical role on how well a product will be sold. The quality of light is a main factor, on which it depends. Therefore, for illumination of Helly Hansen store, special light fixtures with Vossloh-Schwabe components have been installed.

Interlighting developed a track light Optima ORIGI LED 38W, using a Vossloh-Schwabe LED module and control device (LED driver). Stable luminous flux and a five-year warranty, high colour rendering index, a large luminous efficiency and reliable components. All this makes this the track light the optimum choice for shop lighting.

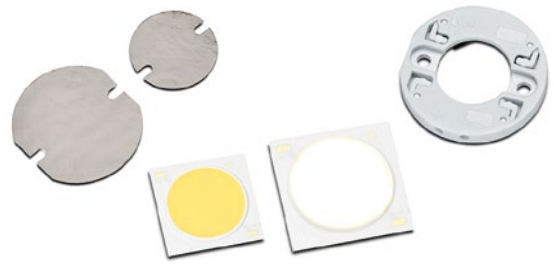
The following VS components were used:

- COB LED module – DMS 128C30G 3000 K
- Control unit (LED driver) – ECXe 1050.196
- Holder of COB LED module – 559165
- Thermal Interface Material (PC TIM) – 561002

## LUGA Shop Gen. 5 Highlights

- Long service life: Up to 100,000 hours
- Colour tolerance: 2 Step MacAdam (RA 85/95)
- High luminous efficacy: Up to 180 Lm/W
- Ceramic PCB for effective heat dissipation
- Special colours for accent lighting: Pearl White, Clear White

Photo Credits: Helly Hansen and Vossloh-Schwabe



# Small Size, Big Performance - New Compact LED Drivers

By Vossloh-Schwabe  
www.vossloh-schwabe.com



*Photo Credit: Vossloh-Schwabe*

**LED ▶ set 1**

The super-compact casing (97x43x30mm) of Vossloh-Schwabe's new LED drivers facilitates flexible luminaire design in downlights and spotlights attached to mounting rails used for office and shop lighting purposes.

These drivers achieve optimum lighting quality thanks to their low output ripple current (<5%), assessed in accordance with Institute of Electrical and Electronic Engineers (IEEE) 1789-2015 standards. And their flexibility is further increased by the adjustable output current, which can be set either by terminal selection or via the standardized LED Set interface.

- Output: max. 17 – 45 W, 300 – 1050 mA
- Highly efficient: >90% under full load
- Service life: up to 100,000 hours
- Product warranty: 5 years

For more information, visit [www.vossloh-schwabe.com](http://www.vossloh-schwabe.com) or contact your local VS sales representative.

# Professional LED High Mast Light

By YAHAM Optoelectronics Co., Ltd  
[www.yahamlighting.com](http://www.yahamlighting.com)

As a professional LED industrial lighting designer and manufacturer, YAHAM provides professional and efficient large area lighting solutions for global customers. The latest Compact S and Lumiway 3 series LED High Mast Light receive great attention because of the high efficacy, high stability and excellent suitability.

## Compact S series

Compact S comes with 140lm/W ultra-high efficiency and excellent illumination performance. The tool-less designing of Compact S with adjustable mounting bracket gets a breakthrough, which provides more convenience way to different angle. Compact S adopts AL1070 Pure Aluminum and cold-forging heat sink to enhance the heat conduction performance and corrosion resistance.

- High Power: 480W/960W/1200W first available
- High Efficacy: up to 140lm/W
- High lumens output: up to 168000lm
- High protection: 20KV/15KV/10KV SPD optional
- High lifespan: >100,000 hours (TM-21 L<sub>70</sub>)
- High protection rating: IP66
- Beam angle: 19°/30°/60° type V Lens and other optional
- 5 years warranty



## Lumiway 3 series

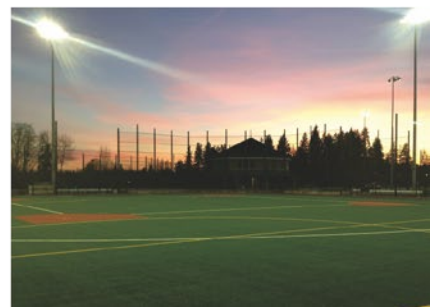
Lumiway 3 adopts minimalist design but still has high performance. 60°×90°, 80°×150°, and 85°×150° optional light distribution provides more professional large area lighting; Integrated heat sink, rapid thermal dissipation.

- 300W/400W/600W/900W available
- Light Efficacy up to 110lm/W
- Luminaire lumens up to 99,000lm
- Beam angle: 60°×90° (80°×150°, 85°×150° optional)
- Protection rating: IP 65
- 5 years warranty

### Types of Application

- Stadium like football field, tennis court, golf course, etc.
- Harbor and dock
- Intersection and overpass bridge
- Airport
- Square

For more information, visit [www.yahamlighting.com](http://www.yahamlighting.com).



# EYE Super High Power LED Floodlight LEDioc FLR-L

By EYE Lighting

[www.eye.co.jp](http://www.eye.co.jp)

Using Iwasaki Optical Control (LEDioc) technology, Iwasaki Electric Co Ltd was able to develop a state of art super high power COB LED floodlight with super narrow beam angle of 5 deg. With the advance LED technology and optical control technology, Iwasaki Electric Co Ltd look set to replace conventional 2000w metal halide floodlight.

#### Features:

- Available wattages: 310w, 560w, 830w, 1100w,1300w
- Beam angle: 5°, 8°,12°,15°,24°
- Available either in High efficacy (up to 110lm/w) or high CRI (>80)
- Design with compact size to replace conventional 2000w short arc metal halide floodlight
- Built in initial compensation function (constant lumen output over life) enable immediate power saving.
- Flicker free high definition TV broadcast electronic circuit power supply
- 40,000hrs @L85

For more information, visit [www.eye.co.jp](http://www.eye.co.jp).





## *SHOEBOX SERIES: LED STREET LIGHT*

By YAHAM Optoelectronics Co., Ltd  
[www.yahamlighting.com](http://www.yahamlighting.com)

- Professional TYPE V(110°×150°) and TYPE III(80°×150°) beam distribution, apply to sports field, parking lots, courtyards, slip roads, etc.
- 120W, 150W, 200W, 300W, 400W optional
- PCB module is integrated with LED Open Protector, greatly improves the reliability
- Alternative mounting methods to meet different applications
- IP65 rating and 10KV surge protection ensure better outdoor performance
- NEMA daylight sensor and camera function can be available



## *DROP LAMP*

By NOXU Home  
[www.noxuhome.com](http://www.noxuhome.com)

The Drop pendant lamp from GrayPants helps prove that even the most simplistic shapes can be beautiful. The Drop lamp takes the shape of a drop of water, forever just about to fall. Constructed of high-quality recycled cardboard, the Drop Lamp only gets more interesting the more you look at it. The highly detailed accents of the cardboard feature distinctive wave patterns created by the corrugated layers, with ripple patterns handcrafted upon it too.

## *SUPERNOVA CHANDELIER*

By Boca do Lobo  
[www.bocadolobo.com](http://www.bocadolobo.com)

Supernova Chandelier was born from the cataclysmic explosion of a massive star – the instant of a bright star burst that was suspended into a fascinating lighting design. Supernovas can briefly outshine entire galaxies and radiate more energy than our sun will in its entire lifetime. The suspended brass particles of Supernova Chandelier will offer you a timeless, brightest and magnificent setting.





## *SOLAR BLUEBELLS STAKE LIGHT*

By The Glow Company  
[www.glow.co.uk](http://www.glow.co.uk)

A twin pack of decorative bluebells to add colour and height to your borders, these hand painted flowers are lit by white LEDs for a soft, magical glow. A fantastic way to ensure that your garden is in full bloom all year round, these decorative stake lights make a stunning garden decoration.



## *SOGELYS HANGING LIGHT*

By PIB  
[www.pib-home.com](http://www.pib-home.com)

Designed entirely in aluminum and cast aluminum, the Savelys light fixture is a design that matches colours particularly well: The blue-grey shade, with the white on the inside, mixed with the silver colour on the top part of the lamp and the power cable that is braided in black fabric. These sober colors blend perfectly together.

## *ALUSIG TRAFFIC LIGHT*

By Skinflint  
[www.skinflintdesign.com](http://www.skinflintdesign.com)

A 1950s feature 'Eagle Alusig' converted traffic light mounted on a wooden surveyors tripod. A salvaged American traffic light, with a polished aluminium enclosure, original hood and cast manufacturer's detailing and branding on the rear. A new etched glass diffusion screen provides a nice diffusion of light when the product is lit.





**KONSTRUKSI  
INDONESIA**



**CONSTRUCT  
INDONESIA**

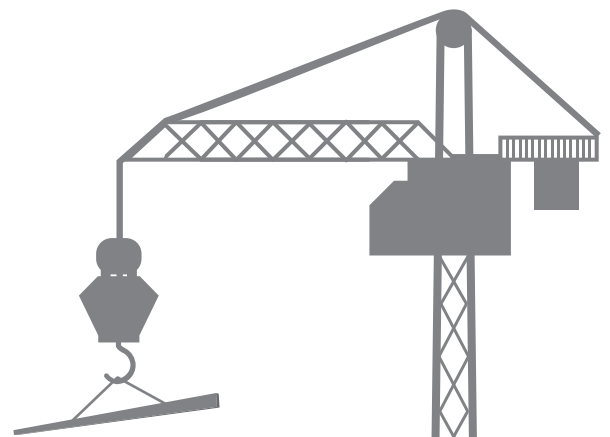
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# 10.6% est. CONTRIBUTION OF INDONESIA CONSTRUCTION SETOR TO GDP IN 2017

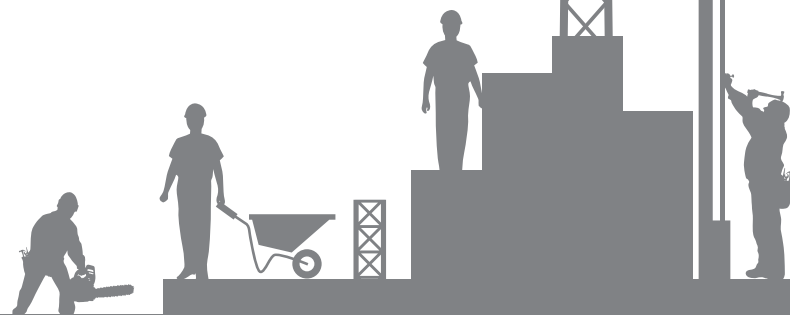


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# Events & Expositions 2017/18

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### ARCHIDEX 2017

July 19 – 22

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Email: [info@archidex.com.my](mailto:info@archidex.com.my)  
Website: [www.archidex.com.my](http://www.archidex.com.my)

### TOURISM TECHNOLOGY ASIA

July 26 – 28

Marina Bay Sands Expo and Convention Centre  
Singapore  
Email: [marketing3@giec.biz](mailto:marketing3@giec.biz)  
Website: [www.systems-expo.com](http://www.systems-expo.com)

## September 2017

### BEX ASIA 2017

September 12 – 14

Halls A & B, Marina Bay Sands  
Singapore  
Email: [info@bex-asia.com](mailto:info@bex-asia.com)  
Website: [www.bex-asia.com](http://www.bex-asia.com)

### INTERNATIONAL GREEN BUILDING CONFERENCE 2017

September 12 – 14

Sands Expo and Convention Centre, Marina Bay Sands  
Singapore  
Email: [igbc@reedexpo.com.sg](mailto:igbc@reedexpo.com.sg)  
Website: [www.bca.gov.sg/events/sgbw](http://www.bca.gov.sg/events/sgbw)

## October 2017

### LED+LIGHT ASIA 2017

October 4 – 6

Halls B & C, Marina Bay Sands  
Singapore  
Email: [LED@cems.com.sg](mailto:LED@cems.com.sg)  
Website: [www.ledlightasia.com](http://www.ledlightasia.com)

### MYANMAR BUILD & DÉCOR 2017

October 5 – 7

Myanmar Event Park (MEP)  
Yangon, Myanmar  
Email: [info@icvex.com](mailto:info@icvex.com)  
Website: [www.icvex.com](http://www.icvex.com)

## November 2017

### FENESTRATION BAU CHINA 2017

November 7 – 10

Shanghai New International Expo Center  
Shanghai, China  
Email: [kate.mao@mm-sh.com](mailto:kate.mao@mm-sh.com)  
Website: [www.bauchina.com](http://www.bauchina.com)

### THE BIG 5 CONSTRUCT INDONESIA

November 8 – 10

Jakarta Convention Centre  
Jakarta, Indonesia  
Email: [info@konstruksiindonesiabig5.com](mailto:info@konstruksiindonesiabig5.com)  
Website: [www.konstruksiindonesiabig5.com](http://www.konstruksiindonesiabig5.com)

### THAILAND LIGHTING FAIR 2017

November 16 – 18

Hall 102-104, BITEC  
Bangkok, Thailand  
Email: [info@thailandlightingfair.com](mailto:info@thailandlightingfair.com)  
Website: [www.thailandlightingfair.com](http://www.thailandlightingfair.com)

## June 2018

### GUANGZHOU INTERNATIONAL LIGHTING EXHIBITION 2018

June 9 – 12

China Import and Export Fair Complex  
Guangzhou, China  
Email: [light@china.messefrankfurt.com](mailto:light@china.messefrankfurt.com)  
Website: [www.light.messefrankfurt.com.cn](http://www.light.messefrankfurt.com.cn)

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**10,000sqm**  
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**9,000**  
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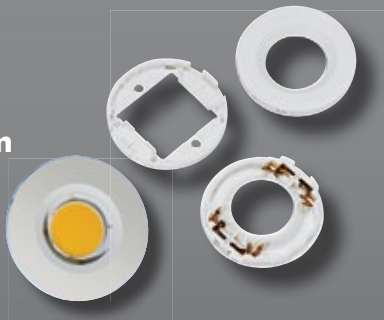


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