

Outdoor spaces of modern working worlds

Lightletter by Hess





Dear Sir or Madam,

Our four-part series “People – Spaces – Emotions” deals with public space, its diversity and the different uses for it. After the expert interviews on the “Importance and Use of Outdoor Spaces”, “Urban Public Spaces” and “Outdoor Space in the Context of Architecture”, we highlight the “Outdoor Spaces of Modern Working Worlds” in this issue. We wrote in detail about outdoor space requirements and their importance to employees with Michael Frey of Schmelzle+Partner Architekten mBB ARCHITEKTEN BDA – an office with a focus on industrial, commercial and administrative buildings.

Improvement of the quality of public life during the day and at night was the main concern of the Dutch municipality Zandvoort aan Zee, which, as the oldest seaside resort in the country, has up to 5 million daily visitors. In the course of the successful revitalisation of the public space between the train station and the beach, the expressive ARINI lighting system from Hess creates sensational accents along the route frequented by tourists. In our reference report, you will learn more about this new highlight on the Dutch seafront.

The city of Villingen-Schwenningen is playing a pioneering role in Germany with the complete conversion of its outdoor lighting to LED. Within two years, a total of 13,400 light sources will be completely converted to LEDs – with Hess as a strong partner. According to the Federal Ministry for the Environment, it is the largest project in Germany in relation to the short implementation time. We spoke with Kai-Uwe Huonker, Head of Energy Services at the Stadtwerke Villingen-Schwenningen GmbH, about the LED conversion and street lighting in general.

These and many more exciting topics can be found on the following pages.

We hope you enjoy reading our newsletter!

With best regards,

Hess GmbH Licht + Form



Dr Ernst Smolka
Managing Director



Marco Walz
Head of Communications and Marketing

IT IS THE RAYS OF A LIGHT THAT
SHOW THE BEAUTY OF A PLACE.

Oliver W. Schwarzmann, Economic poet



OUTDOOR SPACES OF MODERN WORKING WORLDS

Edition 4 of our topic series "People – Spaces – Emotions"

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Expert interview with SCHMELZLE+PARTNER ARCHITEKTEN



Zandvoort (NL) | Bathing paradise at the gates of Amsterdam – with ARINI by Hess



Optimally supported, anytime – with our power and water bollards



Villingen-Schwenningen converts to LED



Kai-Uwe Huonker (SVS) on Street Lighting and LED Conversion

Further topics

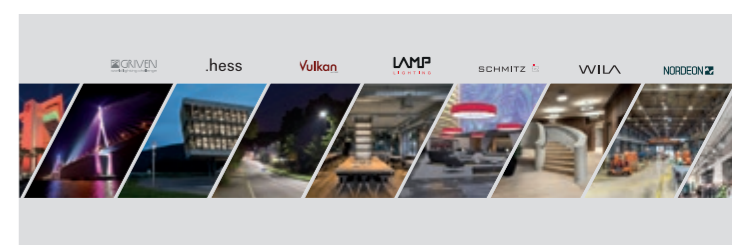
- Events: Architects, not Architecture
- Hess on Facebook and Instagram
- 'Architekturlicht' – new on our Website



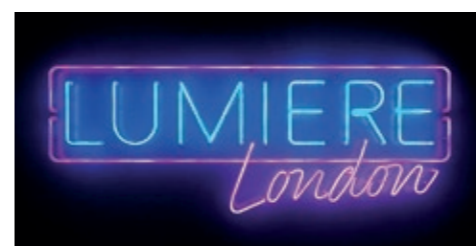
South Korea – Getting colourfully ready for the Olympics 2018



Review: Nordeon Group at the PLDC in Paris



Nordeon Group: Seven strong brands – one group



Lumiere London (UK)



Festival of Light in Ghent (BE)



URBAN FUTURE global conference, Wien (AT)



Outdoor spaces of modern working worlds



- 1st Edition:**
Importance and use of outdoor spaces
- 2nd Edition:**
Urban public spaces
- 3rd Edition:**
Outdoor space in the Context of Architecture
- 4th Edition:**
Outdoor spaces of modern working worlds

Campus-like courtyards with green areas and seating platforms form the heart of the ‘Sunyard’ office complex in Munich.

In our topic series “People – Spaces – Emotions”, the focus is on public space. Its diversity and importance, as well as the different aspects of its use, are the thematic priorities that we are concerning ourselves within this year’s Lightletter editions.

For this, we interviewed high-calibre experts on a variety of topics:

Edition 1
Importance and Use of Outdoor Spaces
Prof. Tobias Wallisser (LAVA)

Edition 2
Urban Public Spaces
Prof. Hinnerk Wehberg and Wolfgang Betz (WES LandschaftsArchitektur)

Edition 3
Outdoor Space in the Context of Architecture
Prof. Eckhard Gerber (Gerber Architekten)



The conclusion of our four-part series is an interview with Michael Frey of Schmelzle+Partner Architekten mBB ARCHITEKTEN BDA, in which we discuss the exterior spaces of modern work and production facilities.

Digital age revolutionising work organisation

The rapid advance of digital technologies is currently bringing about profound changes in our day-to-day social lives. Mobile internet and widespread broadband enables networked communication, which increasingly takes place on smartphones, tablets and notebooks, almost constantly and everywhere.

This technological progress has also affected the world of work: Due to digital networking, traditional employment and attendance times in terms of an eight-hour day are losing their importance.

Instead, decentralised forms of work, independent of time and location, prevail. These forms of work are triggering a fundamental reordering of organizational structures, work processes and work environments in enterprises.

New office and design concepts in demand

In order to cope with these changing work situations, urban planners, architects and industrial builders need to develop new architectural concepts for space and design. Flexible working environments are geared towards communication and cooperation. They focus on employees and an attractive work environment that promotes creativity and well-being.

In 2016, the “Working Spaces 2025” study of the Pragma Institute for Empirical Strategy Research in Reutlingen, addressed the question of what the office of the future will look like.

“It becomes important for companies to offer their employees open office landscapes with opportunities for retreat as well as flexible options for meetings. Classic individual offices then belong to the past, just like the open-plan office, because they do not create the spatial dynamics required by collaboration that is more intensive, spontaneous and project-driven”, were the findings.



The office of the future is characterised by different zones that offer space for communication and spontaneous meetings as well as opportunities for retreat.

Responding to e-mails in the cafeteria, holding meetings outdoors

Many companies have recognised the need for multifunctional workplace design and, when moving to a new business location, create different areas such as project and creative space, meeting points and silent

boxes that support intensive exchange or concentrated work. Additional common areas such as a cafeteria, a lounge, roof terraces and courtyards make it possible to choose a workplace as needed and are also an expression of a work and corporate culture characterised by openness.

“Companies need to adapt to these requirements in order to remain attractive and thus be among the employers that find and retain good professionals and specialists”, says Dr. Jörg Kelter from the Fraunhofer Institute for Industrial Engineering (IAO) in Stuttgart. The researcher is studying topics including digitalisation and its effects on workplace design and supporting companies in the development of modern work and office environments.

Inviting open spaces are becoming more important

There are also high design requirements for the outdoor facilities of corporate and administrative locations. Attractive views into greenery, terraces and park-like seating areas make it possible to experience closeness to nature and offer the opportunity to spend break time outside as well hold meetings outdoors.

Open spaces, in which selected design elements such as plants, water, wood and stone complement each other, not only have a positive effect on employees with their comfortable atmosphere but also represent the corporate philosophy and identity and serve as a “green business card”.

“Designed open spaces in and around company buildings are of great importance as social meeting places for employees, facilitating a positive work atmosphere.”

Brochure “Simply green and good! The FirmenGärten”, foundation DIE GRÜNE STADT



Flowing transitions from inside to outside: Open structures make it possible to work almost anywhere – such as in this case at Facebook in Silicon Valley.





SCHMELZLE+PARTNER M&B ARCHITEKTEN BDA

SCHMELZLE+PARTNER M&B ARCHITEKTEN BDA is an architectural office with some 50 employees specializing in industrial, commercial and administrative construction. Founded in its present form in 1995, the office based in Hallwangen (Dornstetten, Baden-Württemberg) is managed by Siegfried Schmelzle (1) and three other partners – Claus Matt (2), Michael Frey (3) and Peter Gärtner (4).

The clients of the office include renowned national and international companies that are among the global market leaders in their industries. The high structural and design quality of the buildings drafted by SCHMELZLE+PARTNER M&B ARCHITEKTEN BDA has been recognised with well-known architectural prizes.

Our dialogue partner Michael Frey studied architecture in Stuttgart and has been working at SCHMELZLE+PARTNER M&B ARCHITEKTEN BDA since 1996. In 2007 he became a partner of the office.

This year the office was honoured for the expansion of the headquarters of Vector Informatik in Stuttgart with the DGNB (German Sustainable Building Council) diamond for outstanding architecture with special design and cultural quality. The client itself was awarded with the DGNB certificate in platinum.

The office works together on projects in a collaborative manner. The team of experienced architects, interior designers and engineers is committed to aesthetics, functionality and cost-effectiveness. Its drafts feature an eye for perfect detail and timeless design.



Website: www.schmelzle.de

EXPERT INTERVIEW

Michael Frey:
The exterior of modern work
and production facilities



The world of work is currently undergoing a profound transformation, particularly through digitalisation. What significant changes have you observed in your recent projects of industrial and administrative buildings?

Frey: People do not work exclusively in the office any longer, but in the entire working world. The classical processes are virtually no longer existent. Today it is more important than ever that employees feel comfortable in their work environment and can work anywhere. And they can do so because they are no longer bound by fixed computers and phones.

Our interviewee: Michael Frey

I recently talked to an IT company planning a large administration building. There, only mobile devices are being planned. Everything will be digitised so that the employees can work anywhere, no matter where they are.

Digitisation is a crucial issue. Therefore, it is incredibly important to create the corresponding infrastructures.

What new requirements for work environments arise from these changes?

Frey: This development has a significant impact on architecture. As architects, we are challenged to rethink and reshape the office landscapes as well as cafeterias and meeting rooms.

There is a lot of change happening here – both in terms of working hours as well as the overall working environment. The Anglo-American area is decisive.

Example from California: Big corporations like Google, Facebook or Apple, have already built new innovative administration buildings here. These innovative concepts will also ultimately prevail in Germany and become state-of-the-art.



Steffen Schragle

Spacious, transparent and directly connected to the outdoor spaces – this is how the Vector Informatik cafeteria invites you to relax.

Some of them are already being implemented. We have already built similar buildings. There are very innovative industries, such as advertising agencies and IT companies, that are picking up on these developments very quickly. But the change in the working environment is also relevant in traditional mechanical engineering and other sectors.

“The well-known solid construction does not exist any more.”

The well-known solid construction does not exist any more. Today, the administration can also be placed in a steel hall. Today, everything should be open.

As necessary, the employees should be able to retire to more private areas. And also, as necessary, doors should be lockable – but in most companies, the doors remain open.

What does that mean specifically for the design of industrial and administrative buildings?

Frey: That’s easy – it means maximum flexibility. In other words, planning fire compartments as large as possible and as few solid walls as possible, as well as building as few supports as possible. It is important to reduce everything down to the necessary facilities, e.g. escape staircases or central points, such as toilets and social areas that cannot be moved.

The requirements for the working environment are constantly changing. Take, for example, a team of 20 employees that doubles in a short time. It would be necessary to remove walls to create office space for 40 people in one go. On the other hand, if frequent telephone calls are necessary or if there is a need for non-public meetings, then walls must be installed in office spaces at short notice.

Once these things have been defined, the basis for further action is laid. We construct the buildings strictly according to the requirements specified by the client.

We strive for well-thought-out solutions so that the operating procedures run optimally and the construction is in line with the philosophy of the company.



Variable room layout: Flexible walls (marked in red) guarantee a demand-oriented use. The direct connection to outdoor spaces offers high comfort and a pleasant working environment.

That is the challenge for architecture: to create spaces with as few solid walls as possible and with correspondingly flexible technology.

Moreover, as already mentioned, we have to break away from fixed installations and cabling and work with systems that communicate via radio. These are the design challenges in industrial and administrative buildings that we are confronted with – now and in future.

As a specialist in industrial and administrative buildings, you give (new) company headquarters an unmistakable touch. What are the key principles that your designs are based on?

Frey: We analyse exactly what the client wants. This is very constructive, because we then see eye to eye with the client. We see cooperation as a partnership that both sides can benefit from. In addition, it is important to lay down the specifications together and discuss the philosophy of the company.

Amongst all the projects we oversee, there are always many individual solutions that focus on the corporate identity. Many projects are completely aligned with the company philosophy, i.e. “customised”.

“We do not think in terms of certain style elements.”

We do not think in terms of certain style elements, such as a white façade, for example. We proceed very individually, both in terms of building design as well as the implementation of structural requirements. It may very well be that with one client, a solid building with a clay brick façade is suitable, but in other cases, an aluminium façade fits better. We treat each construction project very individually. In doing so, the corporate identity is not adopted exactly, rather we try to reinterpret it.



Speaking of corporate identity, to what extent does the philosophy or corporate identity of a company flow into your design concepts?

Frey: During the first talks, we absorb the philosophy and the spirit of a company. We quickly get to know how people think – whether they are open, whether they are transparent. We also look, for example, at how a company presents itself at trade fairs and on the internet.

We take the company DNA and transform it into architecture. This manifests itself in a lot or a little transparency, in a lot or little glass and/or in transparent or mirrored glass. Part of this analysis goes all the way to the letterhead. We try to pick up on special features and implement them architecturally.

Thus, modern buildings can stand next to some very old buildings, without being visually disturbing – rather, they complement each other.

The DNA of a company must be felt in the architecture when entering the building. Implementing this is what makes architecture art.



By featuring lots of glass, Vector Informatik's foyer is presented in a transparent and welcoming way.

Roland Halbe

“During the first talks, we absorb the philosophy and the spirit of a company.”



Hess

Do you have leeway when a client comes to you with precisely defined specifications?

Frey: Let's take the administration building for the company Vector in Stuttgart. Vector has used clay bricks as a characterising façade element for 25 years. All Vector buildings around the world have these brown clay bricks.

We reduced the amount of clay bricks and increased the glass surface area. Previous buildings are characterized by a perforated frontage with lots of clay bricks and little glass. The new building has few bricks and lots of glass.

Although the buildings are close to each other and sometimes even directly connected, they have the same look. They are still Vector buildings.

How important for you, is the interaction between functionality and aesthetics?

Frey: Functionality is the main criterion. The buildings have to serve their function. For the client, an administration building must be functional throughout and well-thought-out. In a second step, we concentrate on aesthetics, but also functionality. We make suggestions and offer different variants based on our own aesthetic perception.

“The balances of proportions, length and width ratios are very important and we pay special attention to this.”

We are very cubical, but also timeless and down-to-earth. As a result, we often meet the taste and philosophy of our client in the first

draft. The balances of proportions, length and width ratios are very important and we pay special attention to this.

However, one key aspect in terms of quality are the details – and we are developing a lot of details that don't really exist yet.

These are quite often very innovative details, such as façades that can open to ensure natural ventilation. We attach great importance to details and aesthetic aspects.

You were just talking about the quality of a building. How do you define quality?

Frey: This does not necessarily have to do with materials, but with an intelligent combination of components. We almost always use industry-standard components.

They can be put together relatively easily. In doing so, we think about the potential in these standard components and how they can be transformed into detailed solutions. The aim is to use the details of these standard components to create high quality and aesthetics.

Our office building has a similar structure: It is a completely ordinary steel construction. A special feature are the slanted supports, which eliminate further bracings.



SCHMELZLE+PARTNER

The slanted supports eliminate further bracings.

This is a starting point for how something individual can be designed without additional costs. In short: It is possible to create something special with standard components, without breaking the budget.



Roland Halbe

The previous buildings are characterised by lots of clay bricks and little glass. The new building reverses the proportions and reinterprets the look.

Green outdoor recreation areas are a win for any business. What is the significance of these areas, especially for newly planned projects in the industrial sector?

Frey: Green areas are extremely important today. This has a lot to do with the above-mentioned transformation in the world of work, the ability to work and do everywhere. Personally, I also like to work via WLAN on the terrace, with lots of greenery and water around me.

I like to go out with my colleagues in the summer, do a brainstorming together, and then document it on a tablet. And if the weather is good, I like to spend my lunch break outside.

This brings us back to the first question and to the keyword “digitisation”: Employees no longer want to work exclusively in the office, but in a variety of places that best suit the situation and the task.

Which demands on the exterior design are “up-to-date”?

Frey: The exterior design must be multifunctional and perfectly technically equipped. In order to be able to use these outdoor spaces without a hitch, all the media that are available in the building are also needed outdoors. This is no problem thanks to WLAN.

And there is always something going on in companies that use their courtyard for events or parties for their employees. This means that, for example, a power supply or sound equipment are needed.

Another important aspect is the lighting: In an environment with a lot of greenery, water, hedges, sheltered areas, loggias and pergolas, light naturally provides security but also attractive accents.

Lighting, electricity, WLAN, cameras, speakers: Ideally, you have a design object in which all these functions and requirements are housed. This design object could, for example, be a luminaire.

Can you give an example of a particularly successful and attractive open space design in a company headquarters?

Frey: Even a very recent one: the headquarters of Vector Informatik in Stuttgart. The client had demanding design requirements – for the building, for the courtyard and for the outdoor facilities.

We built in an industrial area, on a plot of land where a former factory building stood.

A natural environment should be created for the employees where they feel comfortable and can sit outdoors. Enzo Enea from Switzerland, was our partner for landscape architecture.

Where an industrial hall used to stand, a forest now stands – with pines up to 17 metres high. The floor is modelled on a natural forest floor and we planted herbs to create a pleasant fragrance. With success – the green area is very well received by the employees.

A natural environment should be created for the employees where they feel comfortable and can sit outdoors.



Outdoor area of Vector Informatik.

Steffen Schrägle



The courtyard provides a perfect setting to work and take breaks outside when the weather is nice.

Roland Halbe

There is also a 1,800 m² courtyard with a campus character. It is surrounded by the previously existing buildings as well as the new one. Its special feature: This courtyard – a park with 6-metre-high trees – is laid out on a concrete underground car park.

In the courtyard, the employees can linger, eat and relax. The area has around 300 seats and has direct access to the cafeteria. This past summer, a party with over 2,000 people was held.

In addition to the courtyard, roof terraces were created as common areas on an industrial roof. There are even trees on the roof terraces. Thus, the outdoor area includes not only on the ground, but also the roof.



The roof was also included in the outdoor space and provide an opportunity to retire to a private place.

Roland Halbe

The Vector administration building was audited according to the DGNB (German Sustainable Building Council) standards and was awarded this year for the high quality of construction.

The client received a platinum award for this achievement. In addition, it was judged in terms of architectural quality by a specialised commission and received the “Diamond” award.

This is only the second diamond award worldwide and the first ever diamond award in combination with the platinum award. According to DGNB, the Vector IT campus is the most sustainable building in the world.

What goals did you pursue in this attractive exterior design?

Frey: The high-quality exterior design was very important to the client who wished to create an optimal working environment. The main criterion in the design of the outdoor area was the user comfort.

The guiding principle was to offer employees the best possible working environment and to attract potential new employees. The employees should feel comfortable and have fun at work. Health aspects also play an important role in sustainability, i.e. low-emission construction.

We took measurements of the air conditions in the new Vector building and proved that the air is completely free of pollutants. When the employees come to work, they know that the air they inhale is healthy and unpolluted.

The lighting makes a significant contribution to the high-quality of stay and well-being – not only in urban areas, but also in company headquarters. What role does outdoor lighting play in your projects?

Frey: Outdoor lighting plays a prominent role as it has a representative character for a company’s buildings. In addition to the daytime effect, the nighttime effect of a building is also very important. The design of the lights is important by day, the light they generate by night.

“Outdoor lighting plays a prominent role as it has a representative character for a company’s buildings.”

We prefer simple, rather restrained luminaires. We also like to use „low“ lighting in the form of bollards. Moreover, we illuminate plants in such a way that you perceive the light, but do not exactly know where it comes from. This is a very beautiful effect and the greenery usually appears very delicate due to the lighting.

We often use dark paint finishes for the luminaires, making them less noticeable. On the other hand, we prefer light shades when we want to set conscious accents with the luminaires.



Hess

Especially in outdoor areas, multifunctional luminaires that can do more than just give off light are increasingly in demand. Do such luminaires play a role in your projects?

Frey: In the future, it will be increasingly important for outdoor luminaires to fulfil a number of functions. They must cover a variety of utility services, such as car or e-bike charging station, outdoor WLAN coverage or make power and water supply possible. Ideally, these additional options are unobtrusively integrated into the luminaire.

I assume that such multifunctional lighting systems will become standard in three or four years, since they offer a high added value, especially for exterior designs.

Thanks for the interview, Mr. Frey.



Steffen Schrägle

Customers, guests and employees of Vector Informatik will be welcomed in a pleasant ambience.

Zandvoort (NL): Bathing paradise at the gates of Amsterdam

Picturesquely located on the Dutch west coast, the municipality of Zandvoort aan Zee (North Holland) is referred to by everyone as “Amsterdam Beach” – a nickname that alludes to the beautiful white sandy beach as well as the metropolis of Amsterdam, which is just half an hour away and can be easily reached by rail.

The Netherlands’ oldest seaside resort is extremely popular with visitors and families throughout the year, especially those from the capital region. Many travel by train and

spend their holidays or short breaks on the extensive North Sea beach, which is only 200 meters from the train station.

In order to make the stay for passengers arriving by train a very special experience from the very beginning, the municipality has recently begun to redesign, landscape and illuminate the route between the station and the beach. Attractive ARINI luminaires from Hess, in different designs, ensure sensational accents both by day and night.





The newly designed station forecourt is spacious and inviting. The expressive ARINI light system provides accents day and night.

New calling card for a resort rich in tradition

Guests are to feel comfortable and welcome upon arrival

The redevelopment of the route heavily frequented by tourists is integrated into the overall urban development project “Entree Zandvoort”. The guiding principle of the comprehensive revitalization is the strengthening of the identity of Zandvoort, as well as improving the quality of life in the public area between the train station and the beach in order to make it come alive for visitors as a place to meet, linger and stroll.

One of the first and central building blocks of the project is the station forecourt and its connection, via the pedestrian walkway “Koper Passerel”, to the neighbouring Palace area, all important stations on the way to the beach boulevard.

“We want the visitors, who are primarily from Amsterdam, to enjoy all the beauty of the coast. For the city, Zandvoort is the seaside resort best reached by public transport.

“The upgrading of the station environment is to contribute to a good first impression of Zandvoort.”

The upgrading of the station environment is to contribute to a good first impression of Zandvoort”, says deputy district governor of the province of North Holland Joke Geldhof, summing up.



The upgrading of the existing local area and the clear structuring of the space between the train station and the beach are also economically stimulating, bringing life to the exposed coastal location with hotels and a wide range of gastronomical, retail and wellness offers.

Design of open space focuses on attention-grabbing details

The landscape architectural design for the station forecourt and the “Koper Passerel” was created by the planning office MTD landscape architects from `s-Hertogenbosch. Based on the spatial conditions and the history of the location, it was possible to give the station forecourt and the “Koper Passerel” a strong local presence.

“The starting point for the considerations was focusing on the “DNA” of the seaside resort of Zandvoort. For example, a special sand and water sculpture of yellow granite was crea-

ted in the form of an oversized sandcastle, which today adorns the centre of the station forecourt”, says designer Lisan van der Wielen of MTD landscape architects.

“The sculpture is a point of attraction on the plaza, encouraging people to linger.”

“The sculpture is a point of attraction on the plaza, encouraging people to linger. They take pictures of it to capture a special moment as a reminder of their stay in Zandvoort”, she continues.

Several slightly elevated green islands provide for a high quality of stay and a feel-good atmosphere. Planted with shrubs and black pines, they invite visitors to linger with stepped granite borders and seats made of jatoba wood.

The successful fusion of past and present is also expressed along the pedestrian path “Koper Passerel”: Historical pictures were placed here that capture the 100-year-old tradition of bathing culture at Zandvoort.



Historical images, along the Koper Passerel, document the bathing culture of the location.

The lighting concept with ARINI luminaires from Hess also fits into the series of carefully selected and identity-enhancing design highlights.



The sand sculpture made of yellow granite is the central eye-catcher on the plaza.



Lighting concept

Impressive lighting solution with expressive ARINI luminaires from Hess

ARINI: Design and multifunctionality

For plaza and footpath lighting, the planners favoured a lighting system that meets both high design requirements and simultaneously satisfies various lighting requirements at different locations.

“Because of its exceptional design and the versatile mast variants, we chose the ARINI line from Hess. Particularly attractive is the possibility to supplement the lighting with additional functions such as speakers, cameras and WLAN”, says Lisan van der Wielen.

The focus is currently on the lighting. The ARINI luminaires were equipped with LED modules in light colour 3000K as well as a previously inactivated DALI interface for automatic lighting control.

“Because of its exceptional design and the versatile pole variants, we chose the ARINI line from Hess.”

www.hess.eu/arini



Four ARINI heads, with varied arrangement, illuminate the surface of the plaza...

...while simultaneously accentuating the essential design elements such as the sandcastle.

Pole variants chosen specifically for the location

Especially for illuminating the station forecourt, taller masts with several light units of varying heights were required.

“The main idea of the lighting concept is to emphasize central elements such as the sandcastle in the middle of the plaza and the individual groups of trees with targeted lighting while at the same time ensuring homogeneous illumination of the entire surface of the plaza”, explains the designer.

Four 10.7-metre-high, tapered ARINI poles (version ARINI N) with four differently positioned ARINI heads were installed to meet these requirements.



The light system impressed with its expressive design, the diversity in terms of the height and shape of the design poles and the variable number of ARINI heads to be mounted.

Thanks to their attractive appearance, the ARINI luminaires contribute a visual highlight during the daytime – and provide a unique lighting atmosphere during the evening and night hours.

In addition, due to their multifunctionality, the ARINI is a luminaire system that is already prepared for the demands of the future today.

The multifunctional lighting system ARINI, offers a variety of additional functions in addition to light.

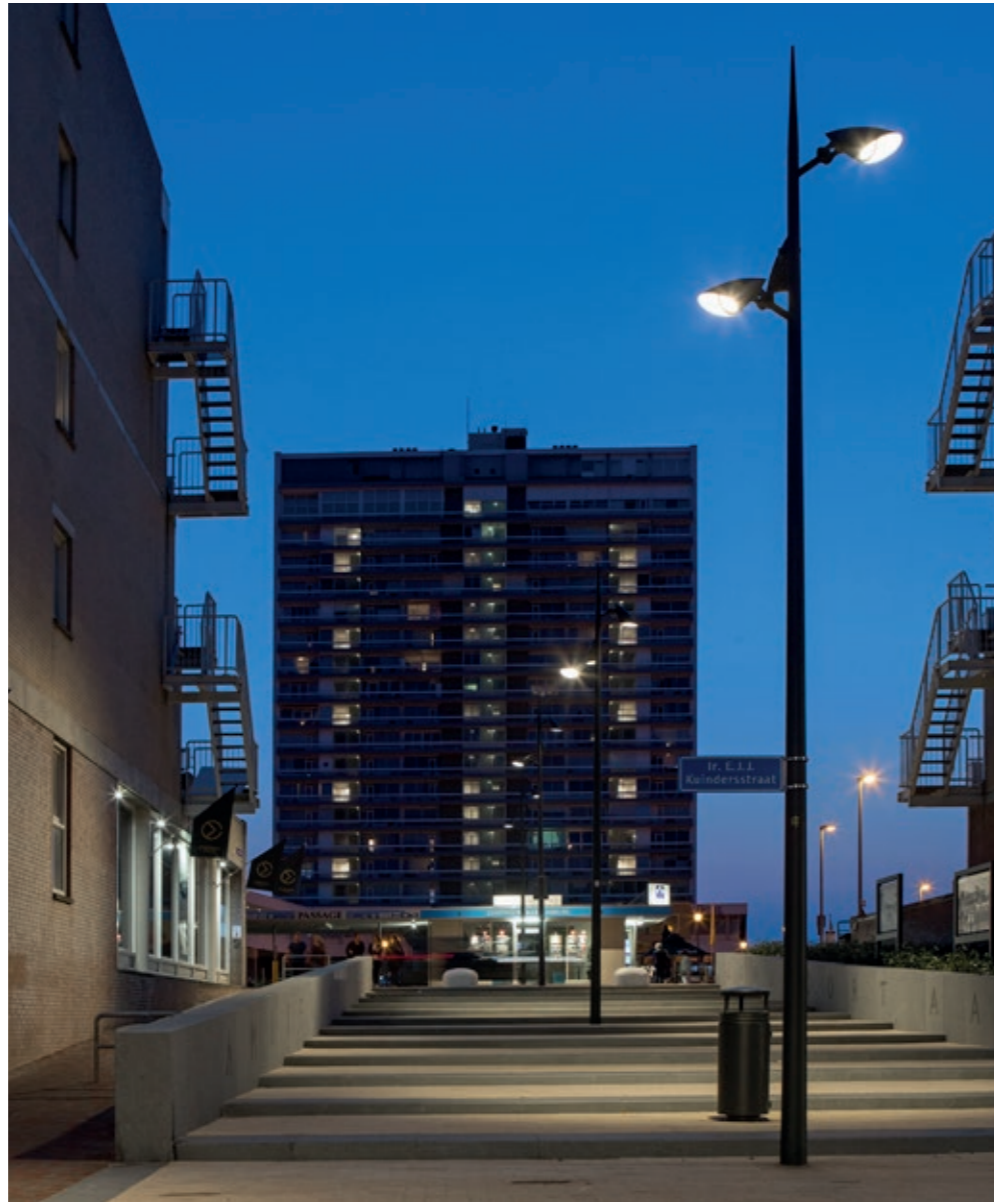
-  WLAN
-  Security
-  Speaker
-  GOBO Projection



Other requirements are met by the four ARINI poles on the ‚Koper Passerel‘: Equipped with a pole height of 7.70 meters and three luminaire heads, they ensure a consistently high illumination quality with rotationally symmetrical light distribution on the pedestrian walkway.



Another 13 curved ARINI poles (variant ARINI G) in a special version, with a height of 7 meters and two heads, evenly illuminate the carparks and pavements around the station building. What makes them unique: The bending radius of the masts, as well as the top spike, are project-specific adaptations.



The pedestrian walkway, Koper Passerel, is illuminated homogeneously by 7.70-meter-high ARINI luminaires with three luminaire heads.

“Thanks to the many design possibilities, we were able to design and equip the required ARINI poles to fit exactly.”

Lisan van der Wielen



A special version is the ARINI G masts along the carparks with modified bending radius and attached top spike.

Sea air-resistant paint protects against the weather

Due to the coastal location, a pronounced maritime climate with a high content of sea salt in the air prevails in Zandvoort. “The sea breeze would severely damage ordinary paintwork, so the ARINI lights come with a paint finish resistant to sea air”, says van der Wielen.

The special coating in the colour “Diamond Soft-Glimmer Graphite-Dark” reliably protects against the weather and gives the distinctive luminaires an appearance that is always attractive and high quality.

Designers and participants
 Builder: Municipality of Zandvoort
 Project partner: Province of North Holland, ProRail, Dutch Railways NS, installation company Ko Hartog, construction company Van der Veekens
 Landscape design: MTD landscape architects
 Illumination: Industrielicht
 Luminaires: ARINI by Hess
 Photos: Hess / Albert Brunsting, MTD Landschaftsarchitekten



The paint, resistant to sea air, protects the lights from salty air in particular.

The whole **ARINI** world – on the website and on your iPad!

The ARINI lighting system – explore it on our website or on your iPad.

Immerse yourself in the ARINI world with our Mood-Finder and experience light, multifunctionality and design in an impressive way.

The Mood-Finder is also available in the App-Store and is compatible with all iPads starting from version iOS 8.0.

Download it now to interactively discover what ARINI has to offer.

ARINI – START THE EVOLUTION.



Mood-Finder:
arini.hess.eu



Hess – Enhancing urban spaces

Hess is your partner when it comes to the appealing design of outdoor urban areas. The broad portfolio of exterior lighting fixtures is supplemented by high-quality site furnishings in a unique, Hess-typical design.

Integrated concepts and customised made-to-order solutions can be implemented across urban and outdoor spaces in line with our slogan “Enhancing urban spaces”.

With our illuminating bollards, barrier bollards as well as power and water bollards, we offer a widely diversified selection for lighting, marking, safety and supply in urban environments.



Well supplied with water or electricity: The water and power supply bollards MORANO (pictured above) and TOLEDO (pictured below) offer various standard fittings.

The supply of exterior spaces with water and also, in particular with electricity, is becoming more and more important – whether at market places or parks, on access roads or in exterior spaces in industrial environments, such as inner courtyards and green open spaces.

Wherever life takes place, either during leisure time or at work, a supply of electricity is immensely important – whether for a market stand, a music system, a laptop, a tablet, and so on and so forth.

Our power and water bollards are especially designed for such requirements. And thanks to their understated design they can blend into any surroundings.



www.hess.eu/en/Produkte/Produkte_Stadtmobiliar/Versorgungspoller/

A special treat: COR-TEN effect finish

The COR-TEN effect finish is another highlight we can offer our customers: With this effect finish, we can replicate the characteristic patina of weather-proof structural steel.

This lends our power and water bollards an unrivalled look and feel.

Place highlights in your exterior spaces – we can assist you!



Reference: Sorpetalsperre Uferpromenade, Sundern (GER)

Villingen-Schwenningen converts to LED

Leading role in Germany through comprehensive conversion to LED technology



First Mayor Detlev Bühler, Senior Mayor Dr. Rupert Kubon and Hess GmbH Sales Director Jürgen Duffner are pleased about the complete conversion to energy-efficient LED technology.

The twin city Villingen-Schwenningen launched a special future-oriented project in September 2017. The city will be the first of its size in Germany, to have its outdoor lighting comprehensively converted to LED technology within two years. By the end of 2019, all 13,400 street luminaires in the city and its associated districts should be equipped with energy-efficient LED technology.

Already in 2010 the city made a name for itself nationally, when it commissioned the first LED test area for street lighting

under real conditions – and was awarded the European Union Greenlight-Award for its contribution to saving energy and reducing CO2 emissions.

These endeavours were also pursued in the sphere of public urban lighting. “Together with the SVS (Stadtwerke Villingen-Schwenningen GmbH), the city has continuously brought public lighting up to the state of the art,” says mayor Dr. Rupert Kubon.

Stadtwerke Villingen-Schwenningen and Hess: strong cooperation partners

The lighting experts of the Stadtwerke Villingen-Schwenningen GmbH (SVS) developed the LED concept for Villingen-Schwenningen under the direction of Kai-Uwe Huonker and project manager Wolfgang Scharlawski. Since 1972, the SVS has been in charge of the operational management of street lighting in the twin city centres, and is very familiar with the existing luminaires and their technology.

The managing director of the SVS, Ulrich Königeter, explains: “One of our core competencies is street lighting. For the past eleven years, we’ve been testing LED systems on our premises, in order to further optimise energy consumption. Therefore, we are naturally very happy that we could plan this significant large-scale project in our home city and can now implement it.”

After the municipal council had given the green light for the project and the grant notification had been received from the Federal Ministry for the Environment, the European-wide invitation to tender for the project began.

Hess GmbH Licht + Form won this call for tender. The premium manufacturer of design-oriented outdoor luminaires and high-quality site furnishings will manufacture and supply all luminaire heads for the innovative LED conversion.

Sales manager, Jürgen Duffner, is extremely satisfied that Hess won the call for tender and was awarded the contract. It is the largest individual contract, in Germany, in the history of the company. “It is really wonderful that we can be part of this future-oriented project and that the city and the public utilities company are relying on quality from Hess,” says Duffner.

City will benefit from enormous savings in the future

Five years after the complete LED conversion, the entire conversion costs will have been amortized due to the high efficiency of the lighting and the associated energy savings. At present, the energy costs for the city of Villingen-Schwenningen amount to one million euros a year; in the future they will only amount to 300,000 euros.

70 percent less energy and 70 percent fewer CO2 emissions

The energy consumption of the highly modern street luminaires will be reduced each year by around 70 percent, and CO2 emissions will be decreased to the same extent. “In the future, the street luminaires will be dimmed automatically and depending on the traffic situation,” says SVS managing director, Ulrich Königeter, to summarize key aspects of the new lighting.

On main roads and pedestrian crossings for example, all luminaires will shine with stronger intensity, to increase citizens’ orientation and sense of security. Whereas in residential streets, including pavements,



From left to right: Hess Field Sales Representative Thorsten Kessler, Hess Sales Director Jürgen Duffner, First Mayor Detlev Bühler, SVS Managing Director Ulrich Königeter, SVS Head of Energy Services Kai-Uwe Huonker and Senior Mayor Dr. Rupert Kubon at the start of the project.

the luminosity will be decreased through which large savings will be achieved. On connecting routes another intelligent control technology will be used. Highly-sensitive sensors will activate and control the lighting depending on pedestrian traffic.

To achieve optimal efficiency, the light colour is set to 4000K and increased to 5000K at pedestrian crossings.



Thanks to the LED conversion, the twin city is benefiting from extensive savings on electricity costs.



Shapely and efficient – luminaire by Hess.



Kai-Uwe Huonker (SVS) on Street Lighting and LED Conversion in Villingen-Schwenningen



Kai-Uwe Huonker in conversation with Jürgen Duffner (Hess, Sales Director DACH).

The Stadtwerke Villingen-Schwenningen GmbH (SVS) has specialised in street lighting for many years. It is currently implementing what the BMU (German Federal Ministry for the Environment) has determined, to be the largest LED conversion project in Germany.

We spoke to Kai-Uwe Huonker, Head of Energy Services at the SVS, about street lighting in general as well as the current project in Villingen-Schwenningen.

As a regional power utility company, SVS has extensive expertise in the field of street lighting. Since when is this one of your areas of focus and why?

We have been intensively involved in street lighting since the founding of the Stadtwerke Villingen-Schwenningen GmbH in 1972. It has always been important for us to offer operations management regionally. As part of the LED rollout in 2011 in the Federal Ministry of Education and Research competition "Municipalities" in New Light', in which an inter-municipality project was launched, we had the opportunity to carry out various LED projects.

This allowed us to gain extensive experience in the area of LEDs, which we later were able to put to use in our work with other municipalities. This gave birth to the idea of developing an independent business field – and of becoming active outside of our business area.

That means you are also implementing street lighting projects for other cities and municipal utilities. What advantages do they have due to this?

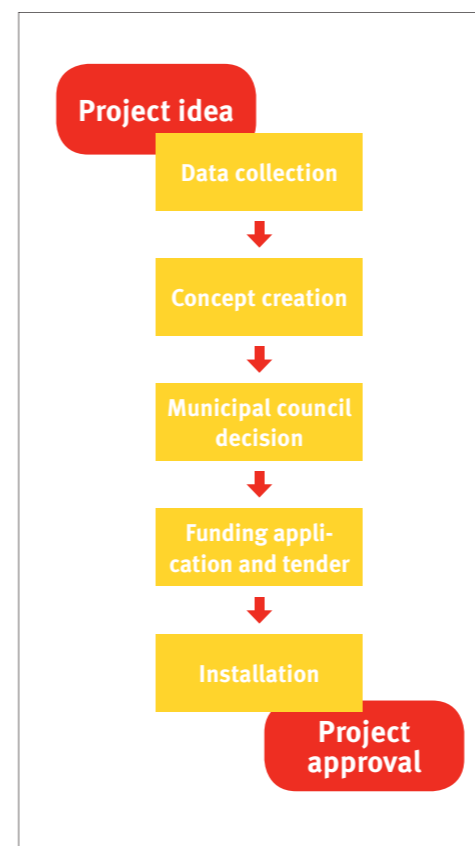
In 2006, we had our first LED test area on our premises. In 2010 – with luminaires from Hess – we were able to put into operation the first real test area in the grid in Schwenningen. In this respect, other cities and municipal utilities benefit from the experiences we had and also the mistakes that we made. We can make valuable contributions.

We develop concepts for cities and public utility companies that are self-contained and also offer individual components – from data collection to concept development through to handling the entire construction process. At the end of the day, we hand over a finished and complete system to the cities or public utility companies.



Modern and efficient
Street lighting in Villingen-Schwenningen

- Use of advanced technologies
 - » Conversion to low-voltage connection lights since the 1990's
 - » For over five years, state-of-the-art LED luminaires have been used
- Outstanding references
 - » 2009 partner of the EU's GreenLight program
 - » 2010 winner of the EU's Greenlight Award
 - » 2010 winner of the Federal Ministry of Education and Research competition 'Municipalities in New Light'



Modularly structured offer of SVS for implementation of a lighting project.

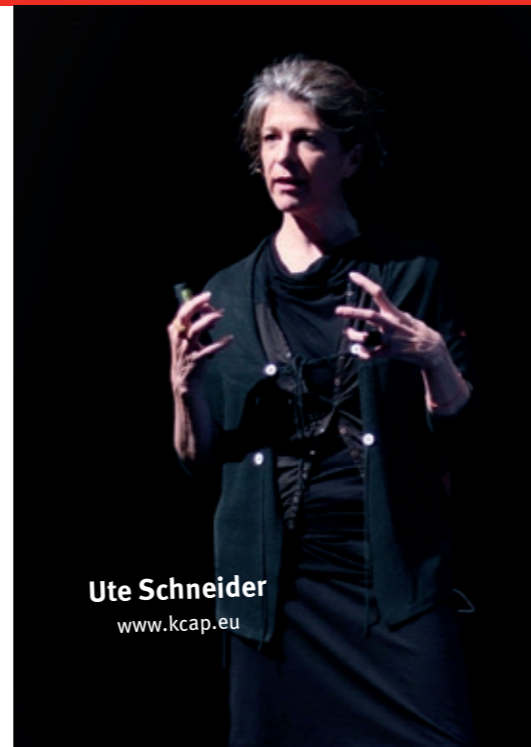


www.svs-energie.de

Stuttgart 01

A look back

At the premiere of “Architects, not Architecture” on October 10th, 2017 in Stuttgart, high-ranking guests enthused: Tobias Wulf (Founder and Managing Partner Wulf Architects, Stuttgart), Ute Schneider (Partner at KCAP Architects & Planners, Zurich) and Bernhard Karpf (Partner at Richard Meier & Partners Architects, New York / Los Angeles) came to the Theaterhaus at the invitation of initiator Fermín Tribaldos. The guests experienced a very interesting evening.



Ute Schneider
www.kcap.eu



Christa Reicher
www.rha-architekten.de



Dusseldorf 03

A complete success

For the third time, “Architects, not Architecture” took place in Düsseldorf. At Tanzhaus NRW on 9th November 2017, three renowned architects, namely Christa Reicher (rha Architects, Aachen/Dortmund/Vianden), Will Alsop (aLL Design, London) and Karl-Heinz Petzinka (Petzinka Architekt, Dusseldorf, and Rector of the Art Academy Dusseldorf) gave the audience the opportunity to learn about their careers in an entertaining way.



Bernhard Karpf
www.richardmeier.com



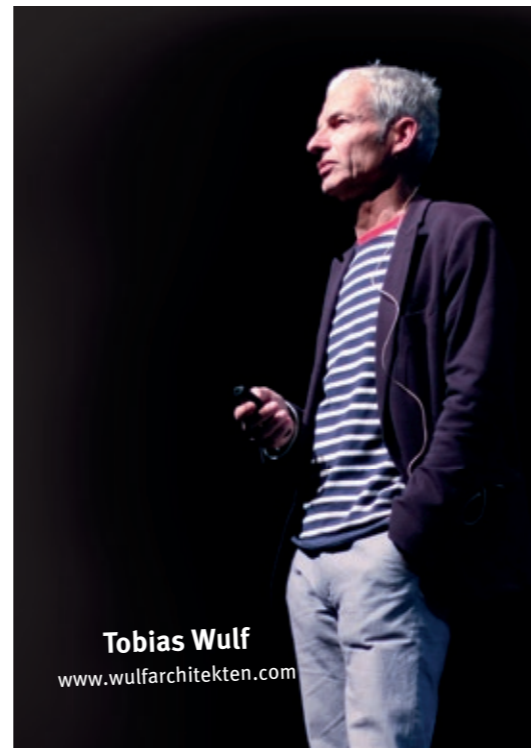
Will Alsop
www.all-worldwide.com



Top architects provide insights behind the façade

The guest speakers talked about themselves as individuals in exciting lectures and spoke about their careers, motivations and personal milestones.

The final get-together gave the participants the opportunity to talk to each other and make valuable contacts.



Tobias Wulf
www.wulfarchitekten.com



Prof. Karl-Heinz Petzinka
www.petzinka-architekt.de



The human side of the architects

True to the motto of the event, human beings and not the architectural works were in the foreground of the lectures. The top architects provided a great deal of biographical information and talked about special events and important key moments in their professional lives.

At the end of the exciting evening, the visitors gathered for a cozy get-together to exchange ideas and expand their networks.





Odile Decq
www.odiledecq.com

Hamburg 06

Insight behind the curtain

The sixth event of "Architects, not Architecture" took place on 23 November 2017 in the Miralles Hall of the State Youth Music School in Hamburg.



Patrik Schumacher
www.zaha-hadid.com



Max Dudler
www.maxdudler.de

Berlin 02

Swiss charm on stage

On 29 November 2017, the architects event stopped off at the Atze Music Theatre in Berlin for the second time.

The well-known architects reported on formative lessons and experiences: Max Dudler (Max Dudler, Berlin/Frankfurt/Zurich), Mario Botta (Mario Botta Architetti, Mendrisio) and Laura Fogarasi-Ludloff (Ludloff+Ludloff, Berlin).



Mario Botta
www.botta.ch



Massimiliano Fuksas
www.fuksas.com

During the evening, three internationally renowned top architects fascinated the audience with refreshing lectures about their lives: Odile Decq (Studio Odile Decq, Paris), Patrik Schumacher (Zaha Hadid Architects, London) and Massimiliano Fuksas (Studio Fuksas, Rom/Paris/Shenzhen, China).



Laura Fogarasi-Ludloff
www.ludloffludloff.de

We would like to take this opportunity to warmly thank the speakers and visitors and look forward to actively supporting the event series starting in the second half of 2018!



From now on, Hess is also to be found on Facebook and Instagram

The Facebook and Instagram networks are among the most well-known and well-used social media channels worldwide. For several days now, we have been represented on both platforms with our own company profile.

Hess has already been communicating via Twitter, XING and LinkedIn for a long time. And now, with the new multimedia presence on Facebook and on the media-sharing-community Instagram, we are significantly expanding our social media activities in order to become even more accessible to our target groups.

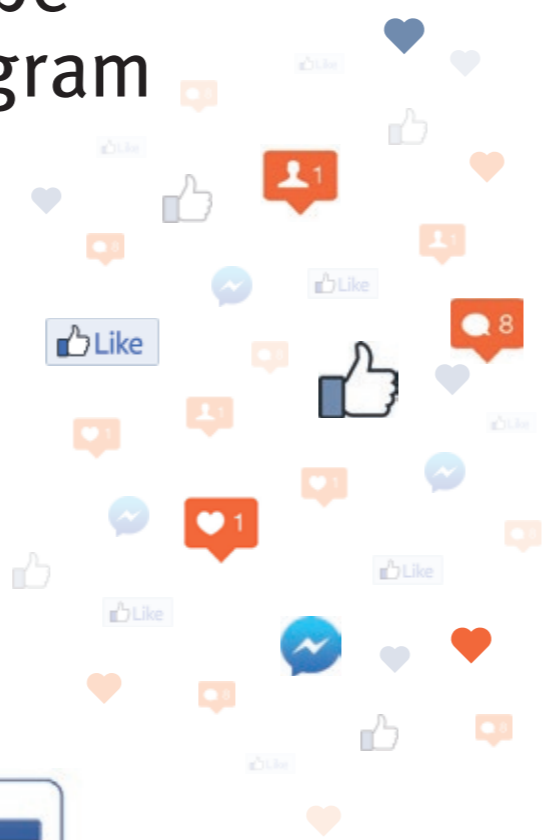
Use our hashtag

#hessgmbhlichtundform

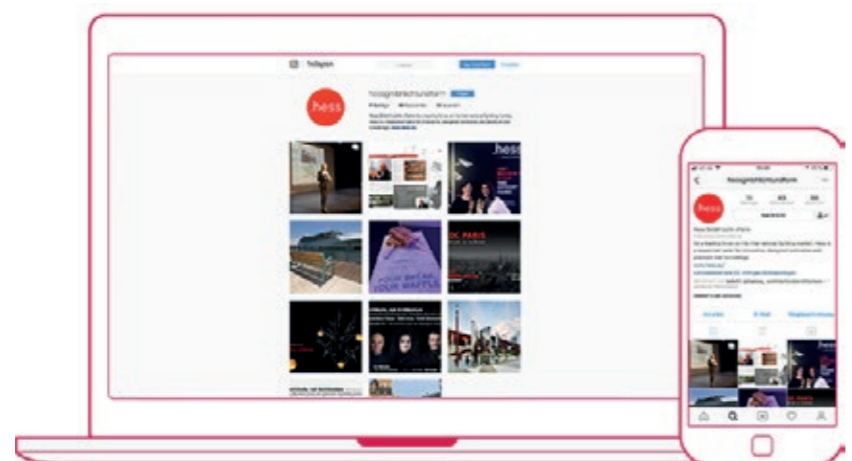
and learn more about Hess and our product and solution portfolio – from new products to finished projects as well as events, exciting interviews and news from the sector.

We appreciate your interest in our company and hope you enjoy visiting us on our social media platforms.

See you!



www.facebook.com/hessgmbhlichtundform/



www.instagram.com/hessgmbhlichtundform/

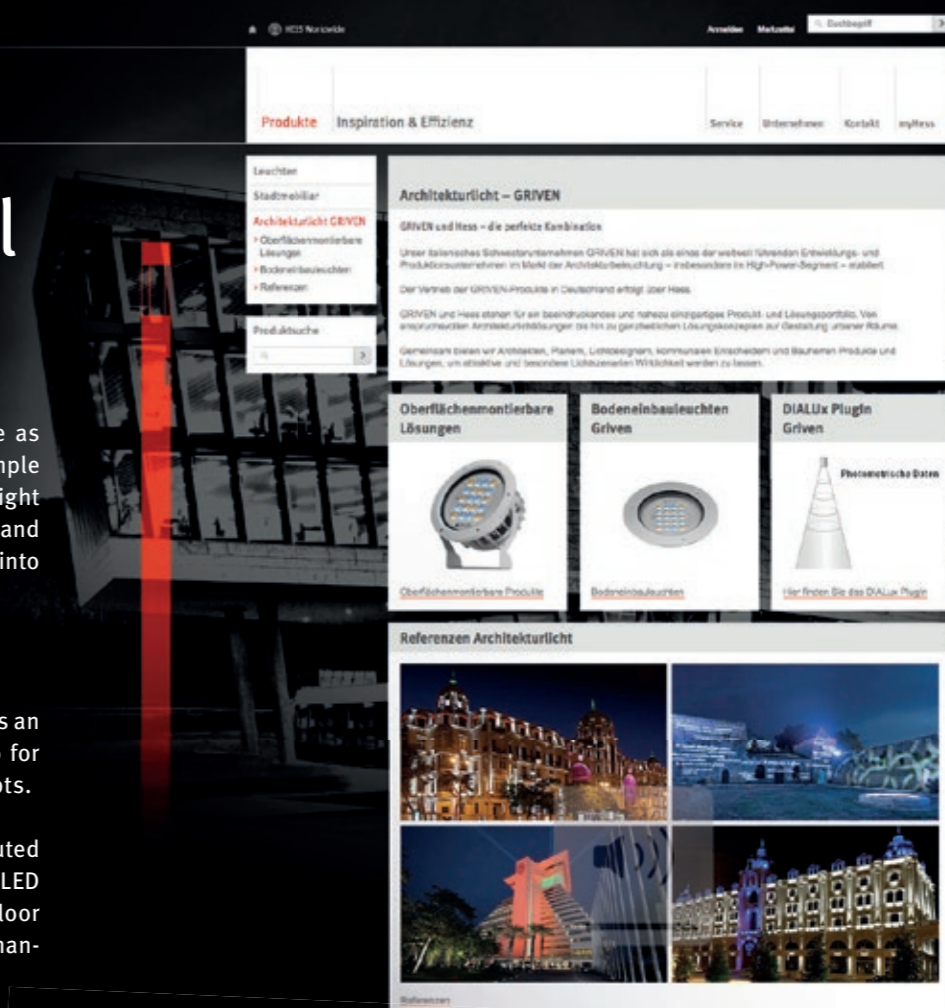
New on our Website: „Architectural lighting“

Light plays an increasingly important role as a design element, going beyond the simple function of lighting. A clever use of light transforms façades into works of art and special architectural details and plants into attractive highlights.

Light in architecture par excellence

Our Italian affiliated company GRIVEN offers an impressive product and solution portfolio for sophisticated architectural lighting concepts.

In Germany, GRIVEN products are distributed via Hess. The wide selection of GRIVEN LED spotlights, for surface mounting and floor installation, can now be found on our German-language website.



That's the reason we have added the "Architekturlicht" menu item in the "Products" section:



www.hess.eu/de/Produkte/Architekturlicht_GRIVEN/

We have also added selected references.

Be inspired!

We are happy to advise you:

Contact and consultation in Germany

Hess GmbH Licht + Form

Oliver Gerwin
Business Development Manager

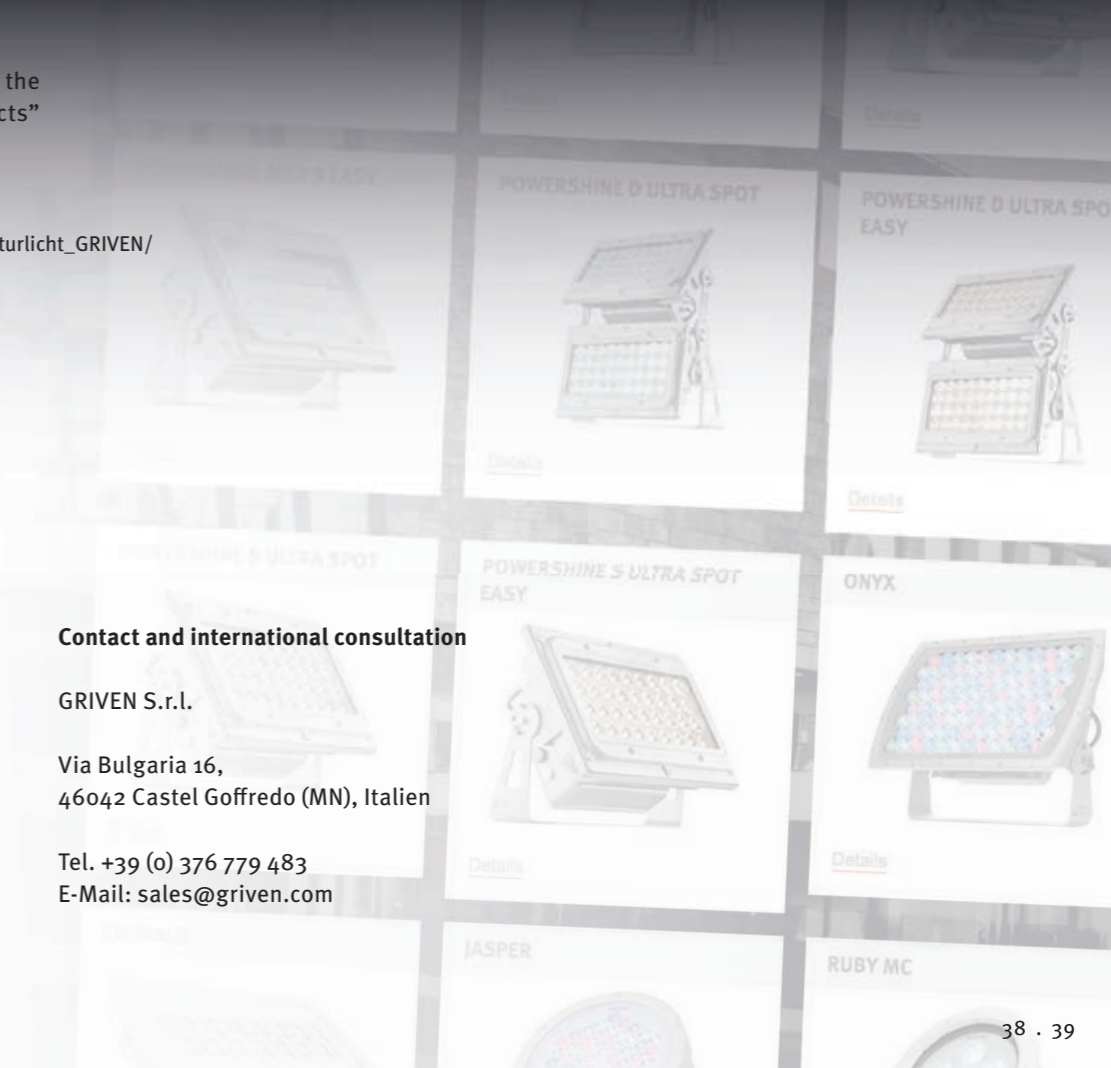
Phone: +49 (0) 77 21/920 466
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46042 Castel Goffredo (MN), Italien

Tel. +39 (0) 376 779 483
E-Mail: sales@griven.com



GRIVEN – the specialist for architectural lighting solutions

Our Italian affiliated company GRIVEN has established itself as one of the leading development and manufacturing companies in the architectural lighting market worldwide – especially in the high-power segment. Distribution of the GRIVEN portfolio is handled by Hess within the German market.

The range of spectacular lighting effects that GRIVEN's innovative product and solution portfolio makes possible, as well as the know-how of GRIVEN are demonstrated by these selected project examples.



www.hess.eu/griven

South Korea – Getting colourfully ready for the Olympics 2018

The XXIII Olympic Winter Games will be held from 9 to 25 February 2018 in PyeongChang, Republic of Korea after 30 years from the Seoul Olympic Games of 1988.

Located in Gangneung Olympic Park, Gangneung Ice Arena is one of the six newly-built venues for PyeongChang 2018.

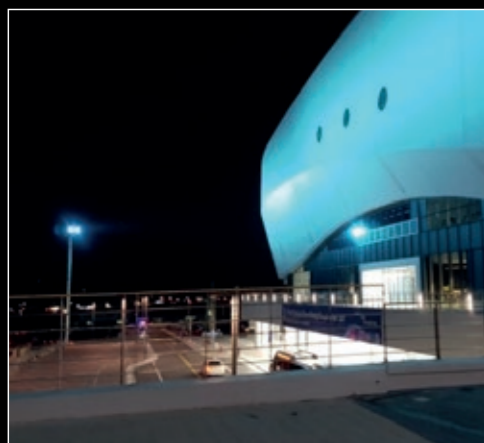


It will host the figure skating and short track speed skating events and will then remain as a permanent legacy facility for local recreational use after the games' conclusion.

In order to further enhance the design and features of the ice arena by night, an energy saving environmentally-friendly LED lighting system has already been installed and fully tested at the arena.



Set up in pairs around the sports hall, the lighting units ensure a perfect result.



The powerful spotlights ensure even light distribution on the façade.

36 units of Powershine MK2 D in RGBW colour configuration with elliptical optics have been mounted in couples on very high poles located all around the arena at a prefixed distance from each other.

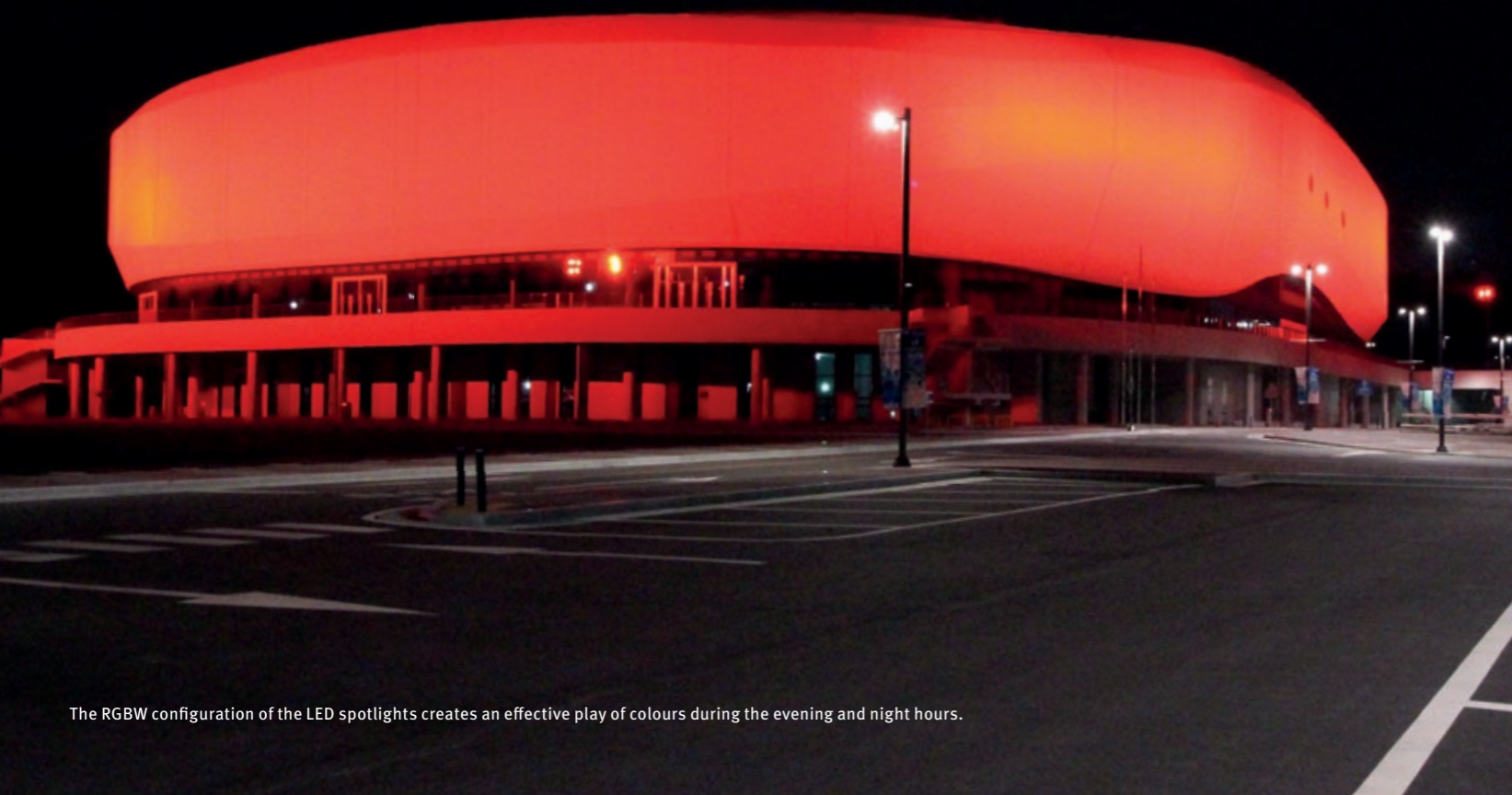


The powerful units allow a perfect and even distribution of a bright intense light on the whole perimetral surface of the ice arena, which now stands out whether in uniform monochromatic shades or in a seamlessly fading rainbow chasing colour effect.



GRIVEN is proud to give their contribution to the success of this event as they did on the occasion of 2014 Sochi Winter Olympic Games, where they had the occasion to illuminate, with the help of over 1700 LED

lighting fixtures, two significant buildings within the Olympic Park area: Hercules Hotel Complex and the Main Media Centre.



The RGBW configuration of the LED spotlights creates an effective play of colours during the evening and night hours.



Cleverly staged: Already during the Olympic Games 2014 in Sochi, more than 1700 LED luminaires from GRIVEN illuminated a selection of buildings in the Olympic Park.

Nordeon Group at the PLDC in Paris



At the joint booth, Lamp Lighting, WILA, Hess and GRIVEN presented their versatile portfolio of products and solutions.

Eventful, top-class talks and presentations, numerous activities on the topic of light, plus an accompanying exhibition with 76 manufacturers.

With GRIVEN, Lamp Lighting, WILA and Hess, four strong brands of the Nordeon Group were represented at the convention and displayed versatile potential solutions and application possibilities, in the areas of architectural light and in exterior and interior lighting.

All of this was on offer at the sixth Professional Lighting Design Convention (PLDC) from 1st - 4th November 2017 in Paris. The PLDC is one of the most important specialist conferences in the lighting sector.

At the joint stand, a particularly special treat awaited the visitors: freshly baked waffles on sticks, which very soon, everyone was eating and talking about.



In total, 2165 lighting experts and lighting designers from 72 countries visited the conference which takes place every two years. The enthusiastic response made it obvious how important the PLDC is for the specialist audience, for exchanging interdisciplinary ideas, developing one's knowledge and for socialising with international partners.

The Nordeon Group complemented this offer with its global presence and its know-how in light technology applications, technologies, design and specifications.



www.nordeon-group.com

With its brands Griven, Hess, Vulkan, Lamp Lighting, Schmitz, WILA and Nordeon, the Nordeon Group can meet all of its customer demands.

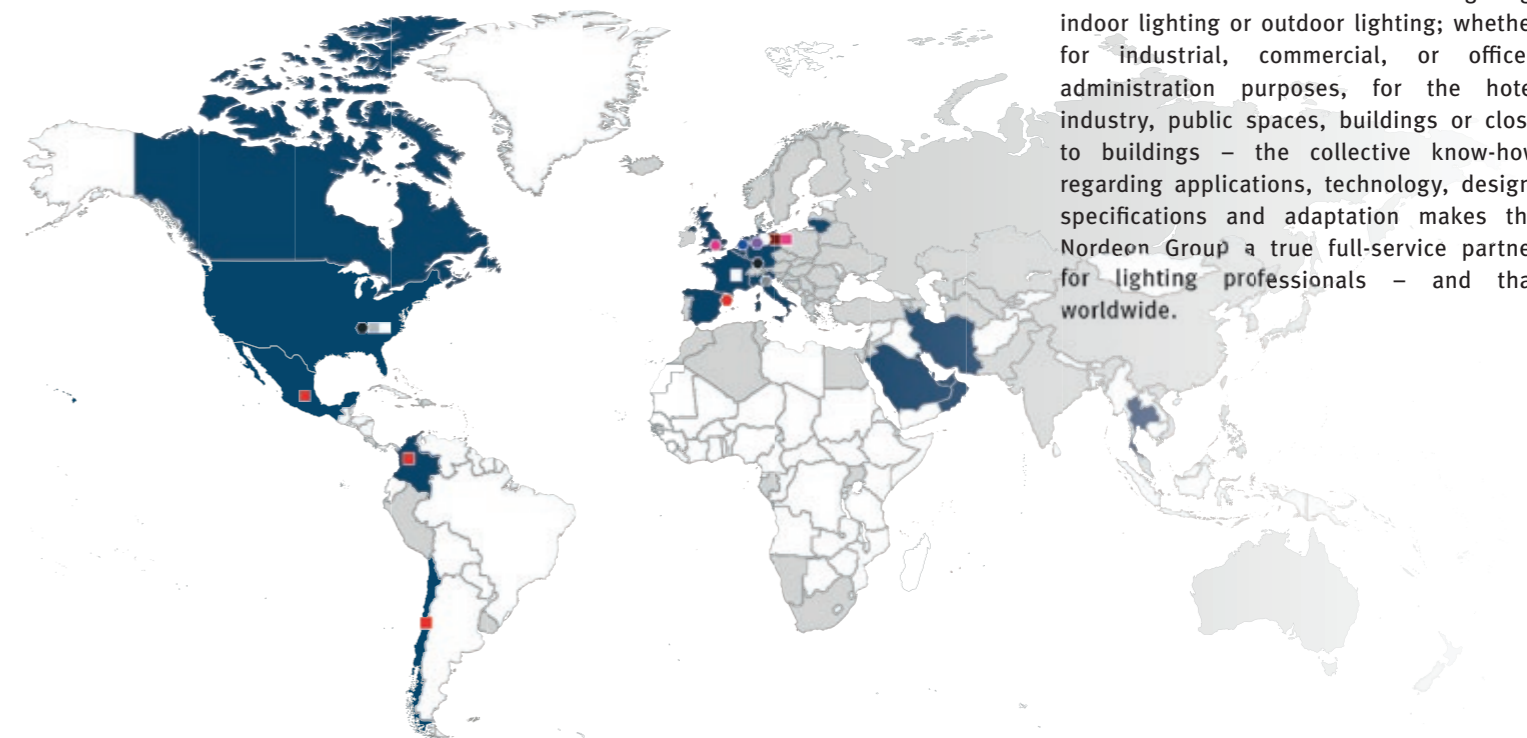


Highlights of the PLDC included the high-calibre presentations and lectures on the subject of light.

ARCHITECTURAL LIGHTING

OUTDOOR

INDOOR



Whether for architectural lighting, indoor lighting or outdoor lighting; whether for industrial, commercial, or office/administration purposes, for the hotel industry, public spaces, buildings or close to buildings – the collective know-how regarding applications, technology, design, specifications and adaptation makes the Nordeon Group a true full-service partner for lighting professionals – and that worldwide.

| | | | |
|--------------|------------|---------------------------------|-------------------------------------|
| Headquarters | Production | Countries with own sales = blue | Countries with sales partner = grey |
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Lumiere London (UK)

Bigger, brighter, fancier – England’s largest outdoor lighting festival is coming to London for the second time from 18 to 21 January 2018, transforming the city into a unique backdrop for nocturnal art.

After the overwhelming success of the event of the same name in 2016 with over one million visitors, this time more than 40 artists from all over the world will be bathing buildings and squares north and south of the Thames in attractive light.

The organiser of the free event is “Artichoke”, one of England’s leading creative companies, which already made a name for itself in 2009 with the first edition of Lumiere in the city of Durham.

Since then, the artful light show has been held every two years in Durham and has also been stopping off in other cities of the United Kingdom in the meantime.



www.visitlondon.com/lumiere

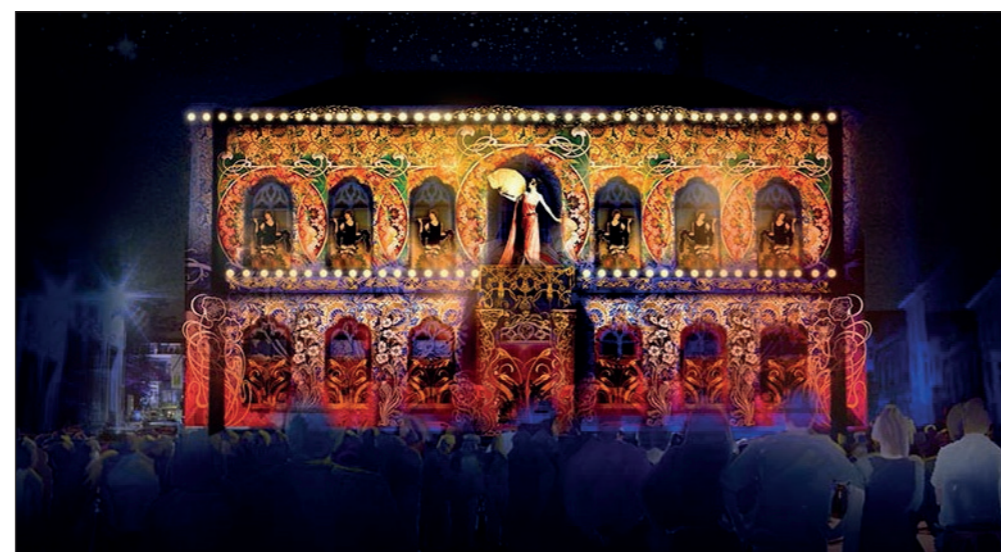
Ghent Festival of Light (BE)

From the 31 January to 4 February 2018, it’s all about light in the Belgian city of Ghent, with the historic city centre and the art district becoming the stage for the Festival of Light.

It features spectacular façade illuminations, lighting installations, light projections and video mappings of well-known international artists, which can be viewed daily from 7 pm to midnight on a circuit tour during the festival period.

The triennial event attracted some 640,000 visitors in 2015. In addition to the illumination highlights, the focus of the event will be on the internationally acclaimed Ghent lighting plan.

It was developed in 1988 by light artists and designers specifically for the city of Ghent, with the most important monuments, buildings, traffic arteries, commercial streets, parks, and squares being emphasized with unique, eye-catching light accents.



visit.gent.be/de/event-lichtfestival-gent

URBAN FUTURE global conference, Wien (AT)

Europe’s largest conference on sustainable cities, the “URBAN FUTURE global conference” (UFGC), will be coming to Vienna for the first time from 28 February to 2 March 2018, bringing around 3000 of the most dedicated ‘CityChangers’ from 50 countries and 400 cities to the capital of Austria.

For the first time, the city of Vienna is acting as a partner and host city for the UFGC, with a focus on the four key topics of mobility, urban planning, communication and resource conservation.

“Most cities have people who are very committed to taking action for a sustainable future. However, many find that the change processes are too slow. This is exactly where UFGC comes in, offering a platform for sharing ideas and experiences. The participants benefit from the “lessons learned” training offered by the CityChangers, making it possible for them to avoid making the same mistakes elsewhere in their own cities,” says Gerald Babel-Sutter, founder, CEO and Program Director of the URBAN FUTURE global conference.



With the Urban Future global conference, founder Gerald Babel-Sutter launched Europe’s largest conference on sustainable cities.

Vienna leads by example: Since 2014, the city has been pursuing the Smart City framework strategy, including social issues as well as technical and ecological aspects. This approach has helped Vienna repeatedly rank at the very top in numerous international quality-of-life surveys.

The fair was launched in 2014 and will take place annually in different European cities starting in 2018.



www.urban-future.org

IMPRESSUM

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Annual Review 2017

Revealing expert interviews, news from Hess and selected references – our Lightletter issues have accompanied you with these and other topics throughout the year.

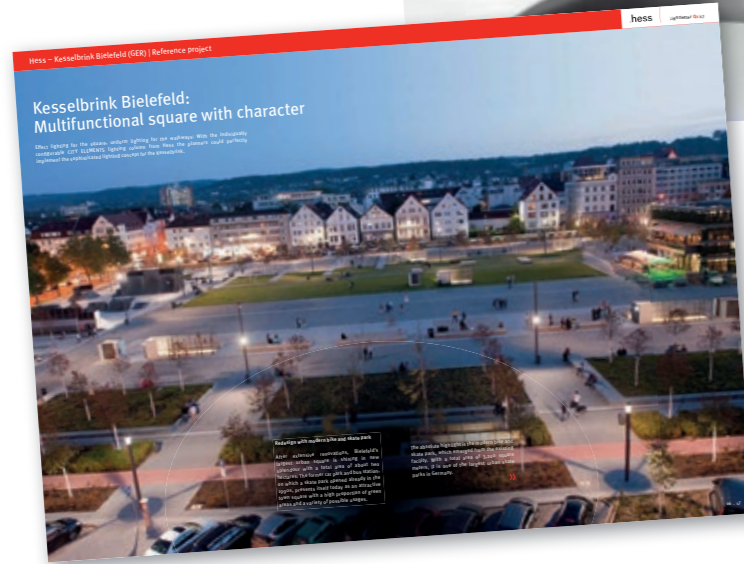
We want to review our project highlights and show you attractive lighting and design solutions.

Be inspired by our look back.



EXPERT INTERVIEW

Prof. Tobias Wallisser about the importance of outdoor areas

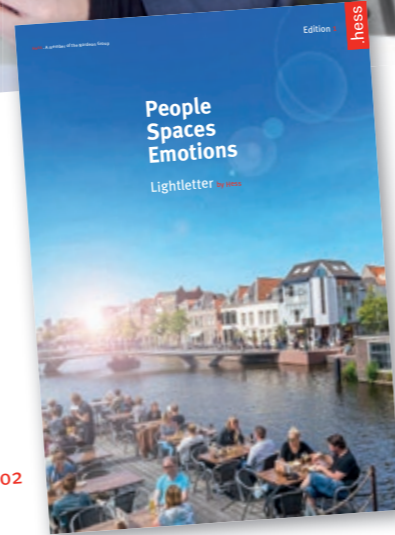


Kesselbrink Bielefeld: Multifunctional square with character

Edition Q1



www.hess.eu/llo2



People Spaces Emotions



EXPERT INTERVIEW

Prof. Eckhard Gerber: Outdoor space in the Context of Architecture



Outdoor space in the Context of Architecture

Edition Q3



www.hess.eu/llo8



New hotspot in Sydney (AU): Darling Harbour

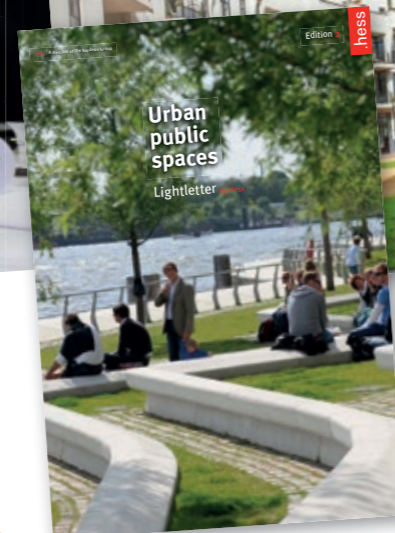


EXPERT INTERVIEW

Prof. Hinnerk Wehberg and Wolfgang Betz about urban public spaces



Maankwartier – Heerlen's (NL) new attraction



Urban public spaces

Edition Q2



www.hess.eu/llo5



EXPERT INTERVIEW

Michael Frey: The exterior of modern work and production facilities



Zandvoort (NL): Bathing paradise at the gates of Amsterdam

Edition Q4



www.hess.eu/llo11



Outdoor spaces of modern working worlds



Kesselbrink Bielefeld (GER)

Effect lighting for the square, uniform lighting for the walkways: With the individually configurable CITY ELEMENTS lighting column from Hess the planners could perfectly implement the sophisticated lighting concept for the Kesselbrink.

Designers and participants

Client: City of Bielefeld

Space planning: Lütow 7 C. Müller J. Wehberg Landscape Architects, Berlin, in the ARGE Passepartout consortium with Léon Wohlhage Wernik Architects, Berlin, SchüblerPlan Engineers, Düsseldorf, for architecture and structural engineering, ifw Wassertechnik, Berlin, for the water feature

Collaboration on the bike and skate park: DSGN concepts, Münster, Benjamin Kopp

Luminaires: CITY ELEMENTS 230 in various designs

Photos: Bielefeld Marketing GmbH



Maankwartier Heerlen (NL)

The new Maankwartier in Heerlen, which is currently being developed and has already partially been constructed, is one of the largest regional infrastructure projects in the Netherlands of the past 5 years.

Its attractive design ties in with formative periods of the city's history in a unique way with a successful blend of art and architecture and a specially designed luminaire based on the Hess VILLAGE model.

Designers and participants

Client: Municipality of Heerlen

Project partners: Housing foundation Weller, Development company Jongen, Dutch Railways, Industrielicht BV

Luminaires: Hess VILLAGE – Special model with gold-coloured perforated plate

Photos: Weller/Marcel van Hoof



Darling Harbour Sydney (AU)

Darling Harbour, a cultural and recreational district in Sydney, is just a stone's throw from the metropolitan city centre and offers a variety of leisure and entertainment facilities, including hotels, restaurants, cafés, shopping centres, museums and attractive open spaces.

With the newly erected convention and event centre ICC along Darling Harbour Boulevard, the district is set to become a world-class event venue and the cultural heart of Sydney.

Planners and participants:

Client: Darling Harbour Live Consortium

ICC design and exterior design: Joint venture between the architectural offices of Populous and Hassell

Project partners: A NSW Government project, ICC Sydney was delivered in partnership with Darling Harbour Live, comprising Lendlease, Hostplus, First State Super, Capella Capital, AEG Ogden and Spotless FM, Form and Light Pty Ltd

Developer: Lendlease

Additional project partners: Large-scale installer Stowe, electric wholesaler Pulvin Composite

Lighting concept: Lendlease in cooperation with the architectural office Hassell

Luminaires: Special edition CITY ELEMENTS 230

Photos: Robert Walsh

Hess GmbH Licht + Form | Lantwattenstraße 22 | 78050 Villingen-Schwenningen

.hess

Light + Building

Frankfurt

18. – 23. March 2018

Hall **5.0** Booth **A50**