

lighting design 2014



licht
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planung

LIGHTING DESIGN

We are a lighting design office located in Wuppertal and Karlsruhe.

Since Uwe Knappschneider and Sonja Dinnebier formed the office in 2001 more than 300 national and international projects were successfully designed and realised with a highly skilled, interdisciplinary team.

Our focus is set on lighting masterplans outlining functional and architectural lighting for cities, creating unique urban nightscapes within the public space as well as designing individual, high-end solutions for interiors.

SELECTION

PRO.jects

2015

PORTRAITS



Uwe Knappschneider

Dipl.-Ing. (equiv. MSc) (ba) med. Physik
Dipl.-Ing. (equiv. MSc) Urban Designer AKNW
Managing Director



Sonja Dinnebier

Dipl.-Des. (equiv. M.A.) Objectdesign
Managing Director

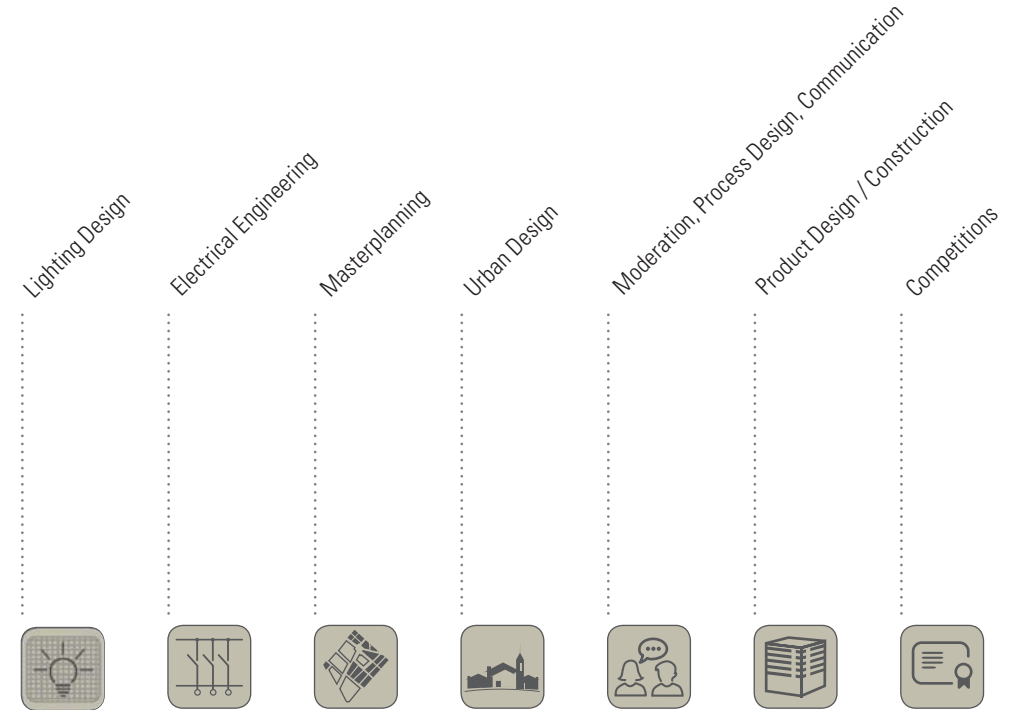
SHORT CV

- Studies of Radiological Protection and Medical Physics, Cooperative State University Mannheim
- Studies of Urban Design and Environmental Planning, Technical University of Kaiserslautern
- Freelance work in various architecture and lighting design offices
- 2001 Formation of the two offices licht|raum|stadt planung gmbh in Wuppertal and Karlsruhe

SHORT CV

- Training as wrought ironworker, Wuppertal
- Studies of Graphic Design, University of Applied Sciences, Krefeld
- Collaboration within various architecture offices
- 2001 Formation of the two offices licht|raum|stadt planung gmbh in Wuppertal and Karlsruhe

COMPETENCES





DÜSSELDORF - MASTERPLAN

The contents of the lighting masterplan were summarised in seven informative and communicable key issues. A design guideline 'light' for the city centre of Düsseldorf was elaborated to determine the essence of the masterplan. The objectives of the masterplan were presented to the community with intense public relations effort and were clearly and concretely explained.

Mid-2007 the masterplan was extended to the outer urban area. The lighting masterplan II concentrates on the issue of differentiation and connection between individual districts and deals with creating a cityscape that can be experienced at night.

The protection of 'dark sky' in the periphery of the city has been defined and prescribed as regulations of the lighting masterplan II.

ESCH BELVAL OUEST - MASTERPLAN

Being a former industrial site the city of Esch Belval Ouest is subject to structural change which necessitates a redevelopment.

Elaborated by our office, the 'Manual Lumière' is a design guideline which defines the functional and accent lighting design for Belval. Hierarchies and lighting levels, lighting colours and principles of luminaire arrangements as well as the selection of luminaire types were established in the handbook. High quality standards in urban design are defined and transferred to principles of illumination.

Following the masterplan rules the redesign of lighting has been implemented gradually and successfully over the past 10 years.

Partner:

Buro Lubbers, Jo Coenen & CO s.à.r.l.

Client:

Agora s.à.r.l. et Cie, Secs
Société de développement

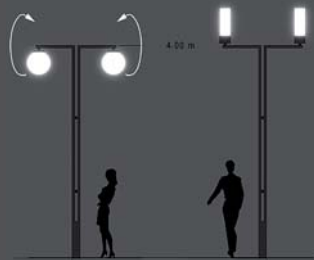
Services:

Lighting and Electrical Design
Design and Construction Phases



STUTTGART - MASTERPLAN

In course of the realisation of the lighting masterplan the renewal of the Schillerplatz (square) illumination, Stiftskirche (church in the background) and Tagblatt-Turm (tower) were considered pilot-projects. Due to cost-effective modification the existing sphere lights were reinterpreted. The new technology provides brilliant lighting while avoiding glare. The improved technical performance results in considerable cost savings of approx. 70 percent.



Client:

City planning office Stuttgart

Services:

Lighting design concept

Product design



BACHARACH - WORLD HERITAGE UPPER MIDDLE RHINE

The lighting masterplan 'World Heritage Upper Middle Rhine' elaborated by our office defines a general lighting scheme for the region while setting more detailed guidelines for individual communities.

In Bacherach the focus was set on the silhouette of the town and the transition between the Rhine Valley and the city centre. The railway embankment and the historic town wall are forming a barrier which had to be penetrated visually. The historic watchtowers along the town wall together with the railway underpasses were designed to become visually distinctive marks. Each underpass got its individual lighting performance. Distinguishing marks of the towers were made visible through illumination at night. By repeating a rhythm of design attributes an exciting sequence along the highway was built.



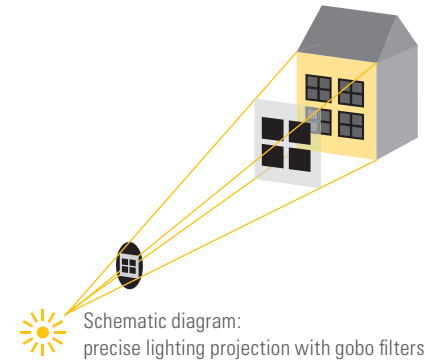
Client:
Stadt Bacharach

Services:
Lighting and Electrical Design
Design and Construction Phases



WETZLAR - MASTERPLAN

In the course of the Framework Triennale event 'new lighting of studwork houses' a masterplan redefines the existing urban lighting in order to improve the image of the city and to increase the appeal of the old town. Potential benefits of the lighting design like safety, appearance of the cityscape, tourism and energy saving are more effective due to the overall approach of the concept.



Client:
Stadt Wetzlar
Services:
Masterplan
Concept for façades of Schillerplatz





WITTEN - RAILROAD BRIDGES

Since 2000 the Foundation 'Lebendige Stadt' aims for enhancing inner city areas for citizens.

In 2012 the focus was set on railroad bridges with visible steel girders. In the course of a competition our office won 2 prizes for the city of Witten and therefore subsidies for two of the most significant town entries were granted. The new illumination of the railway underpass helps to improve on the sense of security and provides orientation.

These lighting installations act as pilot projects to establish the as well developed lighting masterplan successively.

Client:
Stadt Witten

Services:
Lighting and Electrical Design
Design and Construction Phases



BAMBERG - LÖWENBRIDGE, KETTENBRIDGE

Within the scope of the project 'Bridges 2010' the city of Bamberg did a new construction of the existing bridges. Kettenbridge over Main-Donau-Canal is the only bridge which belongs to the UNESCO World Heritage Site of Bamberg.

The bridge connects the historical trading route with Königsstraße and Inselstadt, the economic centre of Bamberg. The lighting concept emphasises the

vivid character and turns the bridge into a bright and appealing location.

The approx. 100 meter long Löwenbridge is characterised by a visible steel structure on the surface. The lighting elements were integrated into the approx. 18 m high pylons and handrails creating an harmonious overall image.

Partner:

Dietz architects (Kettenbridge), Bamberg
CBP Ingenieurbau GmbH (Löwenbridge)
Schulz-Brauns-Reinhart (top of pylon)

Client:

Stadt Bamberg
Building division of the municipal
administration - town planning office

Services:

Lighting and Electrical Design
Design and Construction Phases

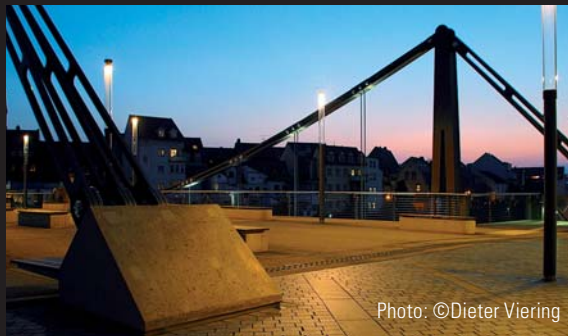


Photo: ©Dieter Viering



Photo: ©Günter Lüttig

ROTTENBURG - EUGEN-BOLZ-PLATZ

The redesign of the towns' entry square with a central bus station serves as starting point for Rottenburg's 'design offensive'. The plain shape of the elongated roof runs along the bus station and creates a characteristic centre.

At night the surrounding area receives ambient light from roof integrated fixtures. Other areas are illuminated with mirror reflector systems located at the edges of the square. This allows for an open broad square with a distinctive central area.



ROTTENBURG - ROUNDABOUT

The roundabout optimises the flow of traffic in front of the towns' entry square. For road users this represents the major node accentuated by high-quality functional lighting and blue LED dots.

Partner:

Stötzer + Stötzer landscape designers, Stuttgart
SBP (roundabout), Stuttgart

Client:

Stadt Rottenburg, town planning office

Services:

Lighting and Electrical Design
Design and Construction Phases



RIYADH - KING ABDUL AZIZ-ROAD FLYOVER BRIDGE

The impressive designed and newly developed bowstring bridge functions as noticeable landmark and provides orientation along the King Abdullah Road.

A static illumination with the flooding of the bow and a diffuse visible light line retracing the roadway along the sides of the bridge are combined with a dynamic illumination of the rods. 1156 LED dots were mounted at both sides of the 12 rods and were programmed with various scenes.

The design of the lighting scenes was developed with changing sequences as well as alternating, balanced lighting colours for different days of the week and special events. The complex programming takes the daily praying times with moderate, special lighting scenes into account.

Partner:

Bödeker Partners landscape designers, Mettmann

Client:

Arriyadh Development Authority

Services:

Lighting and Electrical Design
Design and Construction Phases
Concept of Dynamic Illumination
Programming Process





WUPPERTAL - HISTORIC PARK HARDT

The lighting concept forms a captivating contrast to the historic park. The lighting system is integrated as a modern ensemble in the existing site while interplaying with the new landscape design and architectural elements.

Along the new greenhouses an axis is created and emphasised at night by lighting on ground level.

A water cascade with embedded light lines is marking the centre of the Elisensquare.

The spacial depth of the adjacent meadow is separated by randomly placed light points.

Thoroughly placed accents and architectural lighting creates a pleasant atmosphere. The Elisentower functions as landmark of the botanical garden and forms the visual end point of the greenhouses axis.



Partner:

ST-Freiraum landscape designers,
Duisburg

Client:

Stadt Wuppertal

Services:

Lighting and Electrical Design
Design and Construction Phases

BOCHUM - WESTPARK

The Westpark is the starting point for the urban development of Bochums' west city centre.

Approx. 75 hectare in size, the lighting concept of the park creates a balanced overall image by adjusting lighting colours thoroughly. While following an unobtrusive design approach on the surface the prominent industrial structures are accentuated distinctively by light. Together with Jahrhunderthalle they are forming the centrepiece of the nightscape silhouette of the culture and art related park.

Partner:

Herbstreit landscape designers, Bochum
Danielzik + Leuchter landscape designers,
Duisburg

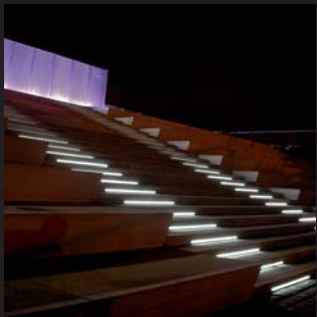
Client:

LEG, NRW

Services:

Lighting and Electrical Design
Design and Construction Phases





KÖLN - RHEINHAUFEN

The largest inner city development area of Cologne is represented by its elevation towards the Rhine.

Luminaires, historical loading cranes and impressive façades generate a prominent silhouette at night. Lighting details at the central area enhance orientation, public safety and create atmosphere.

Ground recessed light lines in 5 different colours are set to communicate the relating sectors of the below 2 km long underground parking up to the walkway.

Partner:

FSW landscape designers, Düsseldorf

Client:

Stadt Köln

Services:

Lighting and Electrical Design
Design and Construction Phases



MEMMINGEN - SCHRANNENPLATZ

The lighting concept is characterised by specific functional lighting precisely adapted to the different public spaces of Memmingens' city centre.

Spotlights are placed at high, angular poles to illuminate Schrankenplatz. In contrast to this the ambient lighting of Elsbethenhof provides an intimate, pleasant atmosphere suitable to the outdoor restaurant seating. Thoroughly balanced accent lighting defines the different lighting scenes.

Partner:

Club L94 landscape designers GmbH, Köln

Client:

Stadt Memmingen

Services:

Lighting and Electrical Design
Design and Construction Phases



BAMBERG - MAXIMILIANSPLATZ



The Maximiliansplatz features the central point of the significant axis between the station and the cathedral of Bamberg. The square has a captivating impression with its well balanced proportion between the area of the public space and its surrounding façades. Particularly the buildings on the long sides - namely the town hall, Krackhardthaus and department store Karstadt dominate the space and give the square its prestigious look. The square plays a central role in the lighting masterplan as the renovation of the square happened in parallel to the design of the masterplan. This pilot project raised the interest of citizens and politicians for lighting as a design topic at an early stage.

Partner:

Building division of the municipal administration - town planning office

Client:

Stadt Bamberg

Services:

Lighting and Electrical Design
Design and Construction Phases



BAMBERG - OBERE SANDSTRASSE



Lighting refurbishment Obere Sandstraße. Suspended, rebuilt historical luminaires provide a brilliant yet almost glare-free ambient lighting at night.

A sequence of uniformly bent arcs and entry gates represent a strong architectural feature along the street. LED-uplights recessed in the ground close to the reveal of the arcs emphasise the special character of this architectural detail in a restrained way.

Partner:

Building division of the municipal administration - town planning office

Client:

Stadt Bamberg

Services:

Lighting and Electrical Design
Design and Construction Phases



SCHWETZINGEN - SCHLOSSPLATZ

The Schlossplatz (Palace square) functions as a link between Carl-Theodor-Straße and the Schwetzingen castle. The illumination of the central axis pursues the design language of suspended luminaires combined with lime tree cordons used along Carl-Theodor-Strasse.

This arrangement is being stretched across the square. The open areas at the sides of this green axis feature a high amenity value. Small spotlights are used to illuminate these areas and they are mounted in an integrative way at the masts supporting the suspended luminaires in the centre. Therefore the lateral areas of the square are kept free from any additional fixtures which creates a broad, open space.

A major issue of the lighting concept are the edges of the square which require an ambient lighting suitable for the restaurants. Subtle façade lighting provides a cosy atmosphere while defining the edges of the space.

Partner:
Building authority Schwetzingen

Client:
Stadt Schwetzingen

Services:
Lighting and Electrical Design
Design and Construction Phases





BERLIN - GOVERNMENT QUARTER

Square floor recessed luminaires, similar to glowing paving stones are retracing the element of the stairs while emphasising the built exterior space. Additionally the integrated lighting elements serve as a high-contrasting strip, balancing functional and design criteria in an harmonic way.

Custom-made luminaires are developed to provide functional lighting of access roads. The luminaires fit well with existing design elements located in front of the 'Reichstag', Platz der Republik.



Partner:

Lützwow 7 landscape designers, Berlin

Client:

Stadt Berlin

Services:

Lighting and Electrical Design
Design and Construction Phases
Product Development

BERLIN - FOYER FEDERAL PRESS CONFERENCE

The 7-story high atrium functions as a foyer with a bar on the ground floor and a stair enabling people to get to the press hall on first floor.

5 evergreen, high trunked olive trees are set in floral shaped glass tree grates, a basin with lentil shaped stones and cobalt-blue glass blocs with green top planting and again round shape are structuring the space and build a contrast to the rectangular geometry of the architecture.

The edge lighting of the tree grates accentuate these and fits well with the linear glowing strips along the atrium façades. The artificial glowing glass blocs spread a special ambience to the bar area.

Partner:

Nalbach + Nalbach architects, Berlin
Lützwow 7 landscape designers, Berlin
Detlef Tanz, glass object art, Ratheim

Client:

Federal Government

Services:

Lighting Design
Product Design and Development
Construction of Luminaires



KOBLENZ - ELECTORAL PALACE

Partner:

Thillmann architects + engineers, Koblenz

Client:

Koblenz Touristik

Services:

Lighting and Electrical Design

Design and Construction Phases

The premises of the Electoral Palace Koblenz are used for various events and are managed by Koblenz Touristik. During restoration of the palace in 2010 a lighting concept was developed which goes in line with the requirements of the flexible usage.





KÖLN - OLAF ASMUT OPTICIAN, SHOP LIGHTING

The exclusive salesroom was built to convince with a reduced design language and a balanced selection of material and colours. The illumination is integrated thoroughly in the furniture. Open show cases, wall boards and drawers are equipped with concealed lighting to enhance the precious over-all appearance.

Partner:

Görgl & Jensen architects, Mönchengladbach

Client:

Olaf Asmut Optician, Köln - Rhodenkirchen

Services:

Lighting and Electrical Design
Design and Construction Phases





HUNGEN - SHOW DIARY

The Hungener Käsescheune consists of a vitreous show diary displaying the cheese-making process, a shop, a restaurant and an information centre 'experience sheep and nature'. With its unique character it is of utmost importance for the urban development of Hungen.

The lighting concept is corresponding with the historical atmosphere of a listed half-timbered barn while it is presenting the products in a perfect light. Selection of material, shape and colour of the luminaires play an important role in order to create an appealing contrast between modern fixture design and the characteristic ambience of the interior. Achieving high illuminance levels for the task lighting while keeping the cosy atmosphere in mind was the objective of the lighting concept.

Partner:

GSW, Worms

Client:

Gerd Kaiser

Services:

Lighting Design

Design and Construction Phases

MENGERINGHAUSEN - CHURCH

Plain and discrete lighting elements bring out the properties of the carefully restored church while being an integrative part of the interior. Simple glass luminaires take care of the ambient lighting; concealed spotlights set accents on baptismal font and altar.

The conversation and refurbishment of the baroque chandelier were set on condition by the monument protection authority. Due to setting the chandelier on a new position when integrating it back into the space it became more significant.

Client:

Church Mengerlinghausen

Services:

Lighting and Electrical Design
Design and Construction Phases





KOBLENZ - RHEIN-MOSEL-HALLE

Lighting design of the front yard, the surrounding of the conference centre and dedicated areas of the function rooms of Rhein-Mosel-Halle.

A light art object was designed and realised as a custom-made luminaire for the foyer. The strictly vertical architectural elements of the façade served as an inspiration for the random arrangement of linear LED pendant luminaires. They accentuate the glass cube on top of the entrance. The elaborate interior ramp is illuminated by carefully placed spotlights.

Partner:
Von Canal architects + engineers, Koblenz

Client:
Koblenz Touristik

Services:
Lighting and Electrical Design
Design and Construction Phases
Product Design and Development

KOBLENZ - BUGA 2011

The lighting masterplan enables the use of artificial light to provide orientation for visitors and citizens at night. Light and luminaires are part of the cities' guidance and signage system.

The urban context has been analysed and transferred to architectural lighting as well as lighting systems and luminaires.

The riverside promenades at Rhine and Mosel are highly significant for Koblenz and were of particular importance for the Bundesgartenschau 2011.

Partner:

RMP landscape designers, Bonn

Client:

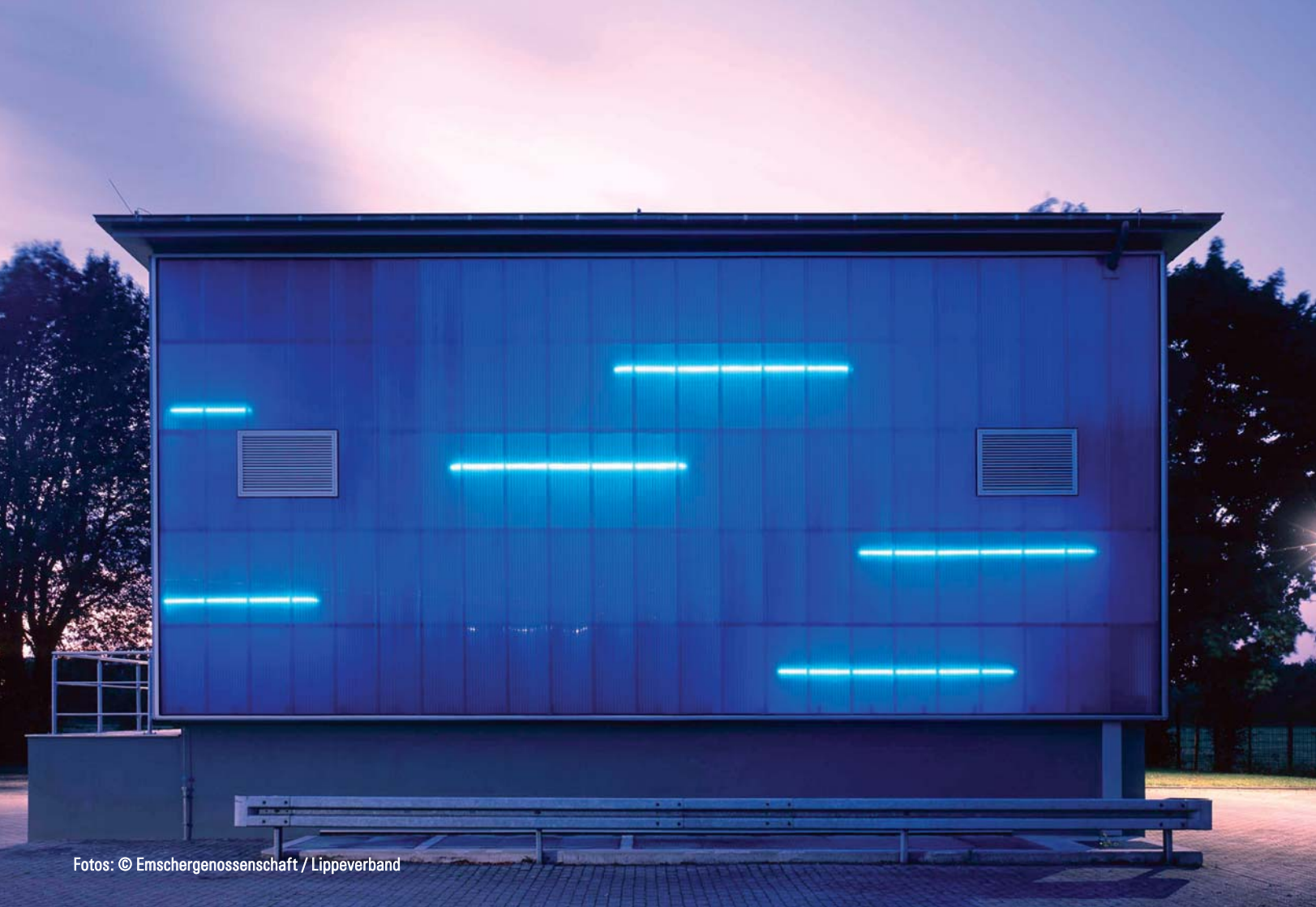
BUGA Koblenz 2011 GmbH

Services:

Lighting Design

Design and Construction Phases





Fotos: © Emscher genossenschaft / Lippeverband

BOTTROP - PUMPING STATION



This pilot project conducted by Emscher river management association in Bottrop-Weilheimer Mark is aiming to create a corporate design as visual landmark for a series of pump stations.

Randomly arranged linear LEDs are back-lighting the glass façade creating a striking setting. The technical appearance of the pump stations is being promoted to become solitary light art objects with a unique character and distinguished affiliation.

Client:

Emscher and Lippe river management associations

Services:

Lighting and Electrical Design
Design and Construction Phases
Corporate Architecture Emscherbauten

DOHA - BARWA COMMERCIAL AVENUE

In Doha (Qatar) a 8.6-kilometre long shopping and commercial avenue is coming to life. Various types of buildings as well as an architecturally ambitious façade design are being accentuated by delicate, custom-made LEDs. Lighting columns are structuring the

drawn-out street into coloured units which help to support the visitor's orientation. These columns using coloured light are illuminating also side-streets and parking areas. Due to their modern, neutral design they fit perfectly into the overall image of the street.

Partner:
Emdelight, Frankfurt am Main
Client:
Hess / Emdelight
Services:
Lighting and Electrical Design
Design and Construction Phases





Fotos: © Henry Jean Beaufort



SCHWETZINGEN - PALACE FAÇADE

Schwetzingen palace, the former summer residence of the prince elector of the region Pfalz, is considered the town's landmark.

High quality lighting design was requested to emphasize its significance at night. In order to improve the lighting situation functional as well as design aspects have been taken into account. The attendant's houses were equipped with an adequate functional lighting while the palace façades received a more differentiated illumination.

In parallel to the redesign of the palace the lighting of Schlossplatz (Palace square) has been revised. Improving the attractiveness of the overall ensemble palace/palace square as well as the town's silhouette was the objective. The colour scheme of the façade was designed to support visual depth and perspective perception of the architecture. Differentiated lighting colour temperatures and illuminance levels are enhancing this effect.

Partner:

Town planning office Schwetzingen

Client:

State of Baden-Württemberg

Services:

Colour Scheme and Design Concept
Lighting Design

SCHWETZINGEN - DESIGN CONCEPT OF AN UNDERGROUND CAR PARK

Aside from the lighting design a comprehensive concept of the underground parking was developed. Depending on the design scheme of ceiling, wall and floor surfaces a completely different impression of the space occurs. In close cooperation with the master builder of the town Schwetzingen an overall concept for the future construction had been developed.

Partner:

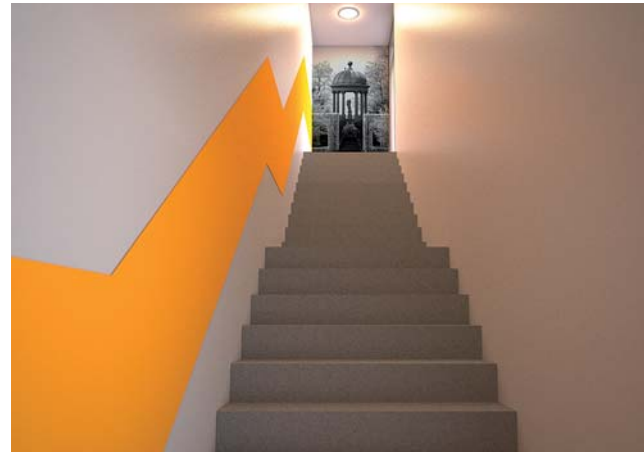
Town planning office
Stadt Schwetzingen

Client:

Stadt Schwetzingen

Services:

Colour Scheme
and Design Concept
Lighting design





METELEN - PLUS SUPERMARKET

The supermarket chain 'Plus' aimed to renew its image. Therefore a study was initiated to enhance the urban integration of the market with more significant architecture and better lighting to attract new customers while maintaining the characteristics of the discounter.



Partner:
Rathke architects, Wuppertal/Berlin

Client:
Tengelmann Group

Services:
Lighting and Electrical Design, Design and Construction Phases, Light-band development

MAINZ LUMINALE 2006 - ZOLLHAFEN

The area of the Mainzer Zollhafen allows for urban development. After being an industrial harbour for more than 100 years an area of approx. 22 hectare will be converted into a new urban quarter. During Luminale 2006 a temporary installation called 'Containerstadt' was erected as a reference to the future change.

Client:

Stadtwerke Mainz

Services:

Lighting and Electrical Design

Lighting Control and Scene Setting

Programming of Dynamic Illumination



Container towers were created to shape the urban silhouette and were used to project a dynamic lighting scenario during the event.

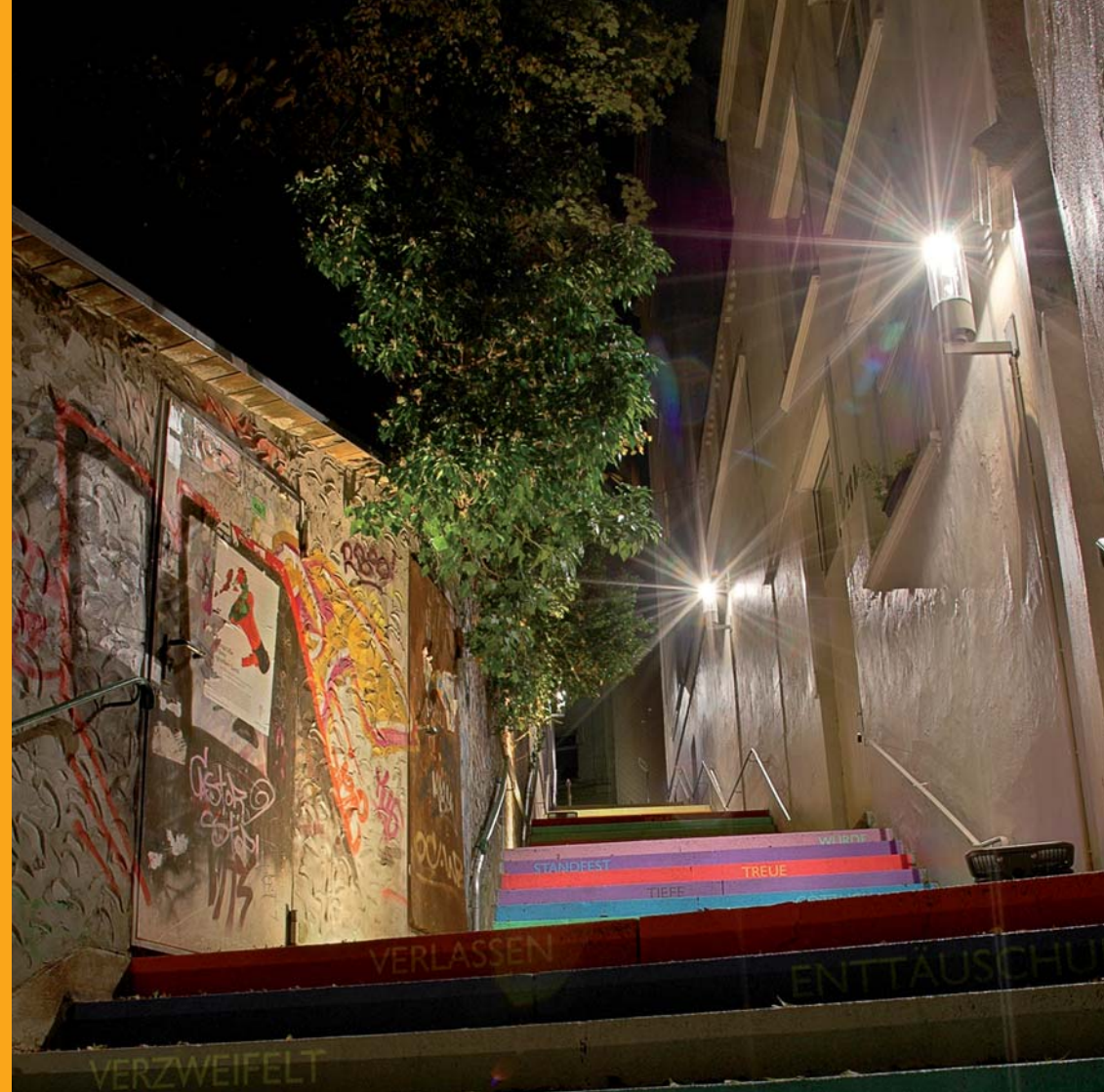
By use of colour, lighting intensity, pace and sequence of the change of lighting an exciting composition was created. Structure, density and transformation are topics which were displayed through this installation.

WUPPERTAL - STAIRS OSTERSBAUM

The objective of the stairway project Ostersbaum was to revitalise the historical path network with differentiated illumination and artistic revaluation.

Entrances were made more visible and the continuous course of the stairway was made traceable by lighting. Every section of the stair can be experienced by an individual illumination. Light lines are denoting the walking direction and are connecting the stairs visually. Differentiated illuminance levels emphasize the structures and architectural elements. Ambient lighting is provided by sconces with a high quality of lighting ensuring a feeling of security and comfort.

Partner:
Diemut Schilling - Artist, Wuppertal
Client:
Stadt Wuppertal
Services:
Lighting Design
Design and Construction Phases
Concept



MOSBACH - CHRISTMAS ILLUMINATION

An exceptional Christmas illumination is setting the festive season annually on stage. The concept is distinguished from the traditional way of seasonal lighting on purpose. It is integrated harmoniously in the old-town while going along in an atmospheric ambience with the Christmas time projecting star gobos on the façade of the church.



Client:

Local authority Mosbach

Services:

Lighting and Electrical Design
Design and Construction Phases



COMPETITION THEODOR-HEUSS BRIDGE

In order to create an overall balanced image integrating the two different lighting situations of the cityscape of Mainz and Wiesbaden the connecting Theodor-Heuss Bridge requires a cautious lighting design. The illumination aims to achieve visible presence, acting as a link between the two cities and emphasizing the ornaments of the construction. Further spectacular event lighting is part of the concept, created through a coloured and/or dynamic lighting scene.

Competition:

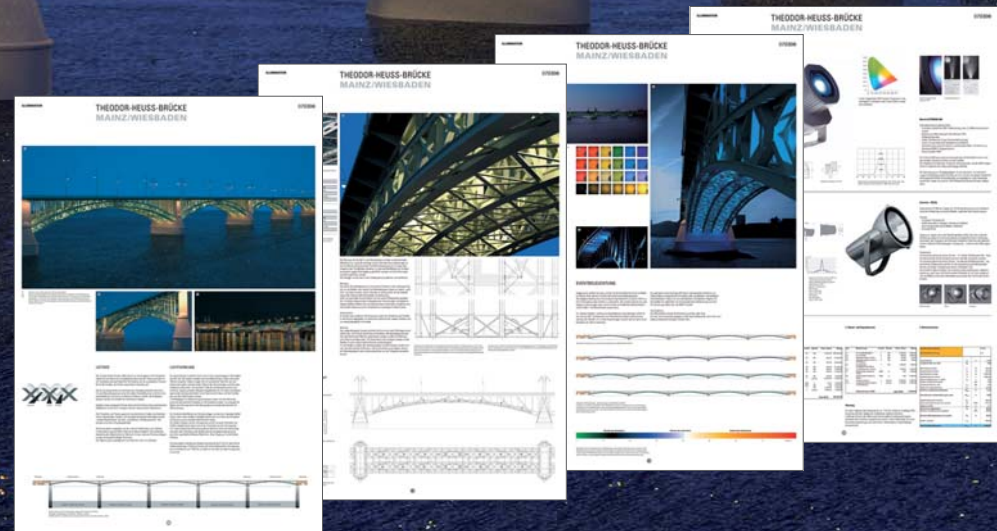
Lighting Design Concept

Awarding authority:

Städte Mainz and Wiesbaden

Placing:

2nd prize



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