01 MUSEUM INSIDER IN FOCUS

SPOTLIGHT ON OUTSTANDING PROJECTS

HORSENS PRISON MUSEUM KVORNING DESIGN & COMMUNICATION



EXHIBITIONS GRAPHICS INTERIORS

KVORNING DESIGN & COMMUNICATION · LION HOUSE · RED LION STREET · LONDON WC1R 4GB · T +45 3393 9353 · WWW.KVORNING.COM · KVORNING@KVORNING.DK

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GRAPHIC DESIGN KVORNING DESIGN & COMMUNICATION PHOTO FRONT COVER HORSENS PRISON MUSEUM PHOTOGRAPHERS NICOLAI PERJESI PHOTOGRAPY AND NIKOLAJ BIRKELUND EDITORS ANN E. CURTIS JESSICA EASTON

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29 STUDLEY GRANGE ROAD, LONDON W7 2LU WWW.MUSEUMINSIDER.CO.UK

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DENMARK'S REVAMPED PRISON MUSEUM TELLS REAL-LIFE STORY OF PRISONERS

The 162-year-old Prison Museum in Horsens, Denmark, has reopened to the public after the second phase of a redesign and refurbishment of the former state prison, with the latest expansion telling the story of the people who lived and worked in the facility.



The creation of successful visitor experiences in museums, heritage sites and visitor attractions is a unique creative collaboration between the client, designer, and a host of subcontractors.

One thing that has become clear to me when talking to many of our museum readers is that museums often have an incomplete idea of what a big exhibition project is all about... How many processes go into exhibition design, and how many professions, competencies and experiences creative and practical - must co-operate.

The objective of this publication is to focus on an outstanding project and illustrate the processes required, from defining the project concept at the very beginning, to evaluating visitor experience at the very end. In this way, our readers will be able to better plan for enough time, money and internal resources to get everything done.

Written specifically for museum professionals at the UK and Ireland's museums and heritage institutions, we've gathered together information that we think will help you understand the complexity and the various professional contributors and roles within exhibition design, the better help you produce your own outstanding projects.

Ann Curfis

Ann Curtis

EDITORIAL



DENMARK'S REVAMPED PRISON MUSEUM TELLS REAL-LIFE STORY OF PRISONERS AND GUARDS

Concept development, exhibition design and implementation in collaboration

Horsens Prison Museum reopened on 20 May 2015, marking the 162nd anniversary of the facility, after the second phase of a significant redesign and refurbishment of the former state prison. For several months the museum and Copenhagen-based design studio Kvorning Design & Communication co-operated on concept development, exhibition design and implementation to tell the real-life story of former prisoners and guards in an extraordinary atmosphere.

10 DIFFERENT PERSPECTIVES

Occupying a large part of the former state prison, the exhibitions are more advanced than ever and apply AV technology to offer the visitors original features. On arrival quests can choose from 10 authentic identities and get a personalized experience facilitated by RFID technology as they move around the premises. The prison comes to life through new technologies, ambient and dramatic historic narratives, animations, lighting, sounds and analogue means, which give adults as well as children authentic and personal insights.

TOP 10 ATTRACTION

The collaboration between Horsens Prison Museum and Kvorning Design & Communication has lasted for more than three years. Shortly after the first phase of the exhibition opened in May 2012, it made CNN's top 10 list of the most interesting prison attractions worldwide. The following year, visitors rated the museum as the 6th best attraction in Jutland on TripAdvisor.

FUNDED BY THE NORDEA-FOUNDATION

Kvorning Design & Communication and the museum are currently outlining the third phase of the expansion, which will take off later in 2015 and be fully complete in 2016-17. Due

ABOUT HORSENS PRISON MUSEUM

The State Prison in Horsens was the first prison to work under the country's modern criminal law principles. The first prisoners were admitted in 1853 and the prison was shut down in 2006. Its continuous function as a state prison over 153 years makes it a unique representative of part of society's cultural heritage, which has remained unexplored until now. Horsens Prison Museum – part of Museum Horsens and run in collaboration with FÆNGSLET – is already on CNN's top 10 list of most interesting prison museums worldwide. www.faengslet.dk

to the project's exceptional narrative and dramaturgical approach it has already received a major contribution from the Nordea-foundation of Dkr 21.8m (US\$3.2m,

€2.9m, £2m). This means that visitors can expect several new attractions at Horsens in the coming years.

EDITORIAL



Horsens Prison Museum's vision was to transform the former Danish state prison into one of the world's best prison museums

ANNE BJERREKÆR DIRECTOR, HORSENS PRISON MUSEUM

Exhibition design is an obliging collaboration between the museum and exhibition designer. The goal is to transform a shared story into a physical rendition and experience: challenging work for both parties of course. As the

exhibition technology has been chosen as a common framework to achieve a set goal with the audience, the responsibility and interest in meeting these goals lies with both parties. Kvorning Design & Communication's collabora-

tion with Horsens Prison Museum is a fine example of several years of aligning expectations, collaboration and mutual respect.

AUDIENCE-CENTERED

Horsens Prison Museum and Kvorning Design & Communication have collaborated for more than three years. The museum director and curator contacted the company after enjoying the 'Operation Dynamo – Rescue from Dunkirk' AV show Kvorning produced for English Heritage, located 26 m beneath Dover Castle. It was an experience that in every sense centred around the audience and affected all.

VISION WORKSHOPS

The museum's vision is to transform the former Danish state prison into one of the world's best prison museums. The threephase plan to achieve this was discussed and agreed upon by director Anne Bjerrekær, curator Maria Berg Briese, and exhibition designers Mads Havemann and Arne Kvorning. Input on graphic, AV, light and sound was also given by designers at Kvorning Design & Communication and other sub-contractors.

FOUR-PHASED PLAN

The prison first opened as a visitor attraction in May 2012. Phase two of the refurbishment expanded the exhibition space to offer a look at prison life from several perspectives, showing both former prisoners' and guards' points of view. The third and fourth phases of expansion, currently being outlined by the parties, will

Exhibition design is an obliging collaboration between the museum and exhibition designer

ARNF KVORNING EXHIBITION DESIGNER, KVORNING DESIGN & COMMUNICATION

start work late in Q3 2015. with a completion date of Q2 2017.

NOTHING LEFT FOR CHANCE

The museum/designer collaboration combined 20,000 unique items over 4,000 m2 with state-of-the-art AV installations and RFIDtagged identity walks. Clever use of scenographic and dramatic exhibits breathes life into an immersive and interactive experience. To tell 162 years of prison history in a new and evocative, yet authentic and honest, way requires carefully chosen means.







DRESSED SPACES ORIGINAL INTERIOR COMBINED WITH WALL PROJECTIONS LIGHTING AND SOUND.



THE **CUSTOMER**

ANNE BJERREKÆR DIRECTOR HORSENS PRISON MUSEUM

WHAT IS THE PRISON MUSEUM'S VISION?

To transform the former State Prison in Horsens into one of the world's best prison museums.

WHAT HAS BEEN THE PRISON MUSEUM'S PRIMARY ROLE IN THE PROCESS OF TRANSFORMING THE MUSEUM INTO A WORLD LEADING ATTRACTION?

Our job is not only to present history and provide a context, but also to give a voice to former prisoners, relatives and staff members. And to create a platform where visitors can join the current debate - both during and after their visit – a place where they can form and voice an opinion.

WHAT REQUIREMENTS SHOULD KVORNING AS MAIN CONTRACTOR MEET?

It is paramount that they understand our vision and values – that they work constructively to find solutions which support these. Basically, I expect them to deliver what they promised, meet deadlines and adhere to agreements.

WHAT ARE THE KEY FACTORS THE COMMIS-SIONING PARTY SHOULD **BE AWARE OF?**

Matching of expectations, both prior to the launch and throughout the process. Include all the practicalities and everything not explained in detail in the contract. Make realistic timetables and clearly define the financial framework - this minimizes disagreements and conflicts.

WHAT HAVE YOU LEARNED ABOUT PROJECT DEVELOPMENT AND COLLABORATION? I am wildly impressed by

how the project evolves once skilled people from different fields work together to reach a common goal. But it is also really difficult and involves many necessary discussions. The main contractor must maintain tight control.

HOW WOULD YOU DESCRIBE THE IDEAL PARTNER FOR MUSEUM AND ATTRACTION DEVELOPMENT?

The most important aspect is that they understand our values, and that they carry these values into their dealings with us. They have to know their way around a museum, so that the layout and design meet our dayto-day needs. Naturally, they must also be familiar with the latest presentational styles and means of communication – and have a great professional network to consult when there are matters of dispute.



THE EXHIBITION DESIGNER

ARNE KVORNING

OWNER AND EXHIBITION DESIGNER **KVORNING DESIGN &** COMMUNICATION

WHAT IS YOUR VISION FOR THE PRESENTATION CONCEPT?

To create as authentic an experience as possible. To recreate the ambience of the prison during its heyday and to dramatize and stage key events in a way that speaks to the visitors' emotions.

WHAT HAS BEEN **KVORNING'S PRIMARY ROLE IN THE PROCESS** OF TRANSFORMING THE MUSEUM INTO A WORLD LEADING ATTRACTION?

We have been dramaturges and set and exhibition designers. Our foremost task has been to convey ambiences and we have incorporated artistic effects of cinematography. This has resulted in a prison museum unlike any other in the world...

WHAT REQUIREMENTS SHOULD THE PRISON MUSEUM MEET?

The museum must be an active partner in developing the concept. They should deliver the academic content and give us relatively free

rein to choose the artistic effects. Collaboration is based on an active dialogue and should ideally be workshop-based.

WHAT ARE THE KEY FACTORS EXHIBITION DESIGNERS SHOULD **BE AWARE OF?**

In this case, our job has been to stage the different spaces in a superb way, with varying artistic effects and a cohesive storyline. From the moment the visitors enter, the level of abstraction is clear and this enables them to attune their expectations. More than anything, this exhibition is meant to touch something in you.

WHAT HAVE YOU LEARNED ABOUT PROJECT DEVELOPMENT AND COLLABORATION?

The prison is a highly complex building – at once both robust and sacrosanct in its original state. It has been challenging to integrate AV equipment etc. in a subtle way, so that the visitors sense the effect rather than see the equipment. A meticulous script has been paramount in order to control all the different processes.

HOW WOULD YOU DESCRIBE THE IDEAL **CLIENT IN REGARDS** TO MUSEUM AND ATTRACTION **DEVELOPMENT?**

An active partner. Someone who generates mutual respect and who give us designers leeway to come up with the best solution regarding presentation style and means of communication. Trust. respect and free hands.

BEHIND BARS / BIRMINGHAM **NOVEMBER 2015**

Museums Association Conference and Exhibition 2015 Birmingham, 5-6 November

Learn more about the transformation of the former Danish state prison into one of the world's best prison museums at the Museums Association Conference and Exhibition 2015 in Birmingham in November. Visit Kvorning's booth and meet Arne Kvorning, the exhibition designer.

The dedicated museum/ exhibition designer collaboration combined 20,000 unique items and 4,000 m² with state-of-the-art AV installations and RFID-tagged identity-walks. Clever use of scenography and drama breathes life into the walls once more. The museum merged research, AV technology and story-telling; transforming the authentic location into an immersive and interactive experience.

20,000 unique items, 4,000 m² with state-of-the-art AV installations and RFID-tagged identity walks

THE PROCESS TIME SCHEDULE 2012-2017

FROM IDEA TO VISITOR EXPERIENCE

The making of the Prison Museum has been an extensive process and has required the intense and combined efforts of the museum, the designers and the manufacturers. The exhibition has been delivered as a complete design and build project and Kvorning has delivered, produced and implemented it all in collaboration with their regular subcontractors in Denmark. Final detailing, production and implementation have been completed in just six months and because of this, careful planning, strict management and quality assurance processes have been of the utmost importance. Development, production and implementation of an exhibition project of this size is carried out slightly differently in Denmark than in the UK, as they do not have a fixed system like the British RIBA stages. The process is, however, similar in many ways. The exhibition at the Prison Museum was brought to life through the following six stages:

IDEA DEFINITION / CONCEPT DESIGN

• In close collaboration with the museum, the concept's content and design is developed

SKETCHES / EXHIBITION DESIGN

• The complete exhibition experience is organized, defined and designed

DETAILS / TECHNICAL DESIGN

• All details are determined – both physical and digital elements

PRODUCTION

• Physical elements are produced, interactive elements are programmed and tested

CONSTRUCTION / IMPLEMENTATION

• Staging of the museum's many rooms – furniture, AV equipment, lighting and sound are installed and tested

HANDOVER / EVALUATION

• The exhibition is handed over to the museum; the exhibition opens. Subsequent evaluation with both the museum and the subcontractors

These were implemented at Horsens across four phases.



PRISON MUSEUM **PHASE 1 – MAY 2012**

VISITOR ATTRACTION OPENS







PRISON MUSEUM PHASE 2 - MAY 2015

NEW EXHIBITIONS IN EXPANDED EXHIBITION SPACE







PRISON MUSEUM PHASE 3 - MAY 2016

4 NEW EXHIBITION THEMES PLANNED -FOCUS ON DEBATE



THE PROCESS TIME SCHEDULE 2012-2017



PRISON MUSEUM PHASE 4 - MAY 2017

NEW EXHIBITION THEME AND RECONSTRUCTION OF ESCAPE TUNNEL - FOCUS ON ESCAPE







THE Media

SCIENTIFIC RESEARCH INTERVIEWS 20,000 UNIQUE ITEMS GRAPHICS SIGNAGE SOUNDSCAPES

LIGHTING DESIGN SPECIAL EFFECTS INTERACTIVE MEDIA PHOTOGRAPHY VIDEO ANIMATIONS

AV TECHNOLOGY RFID TECHNOLOGY SCENOGRAFIC AND DRAMATURGIC MEANS STORYTELLING ANALOGUE PRESENTATIONS





01. DRESSED SPACES 02. RFID-IDENTITIES 03. WALL PROJECTIONS AND IMAGE MAPPING 04. UNIQUE CONTENT FOR EACH IDENTITY 05. INTERACTIVE SCREENS











THE TEAM

Members of the team have their own unique competencies and experiences (creative and practical). They come from many different professions and cooperate closely throughout all phases.

MAIN CONTRACTOR

KVORNING DESIGN & COMMUNICATION

SUBCONTRACTORS

ALIEN WORKSHOP / SPECIAL EFFECTS AND INTERACTIVES AV-HUSET / AV TECHNOLOGY COWI LYSDESIGN / LIGHTING DESIGN IDESKILTE / SIGNAGE MASTERMIND PRODUCTION APS / SOUNDSCAPES SPORRING / CARPENTRY WAGNER MONTAGE / MOUNTING WONDERLAND INTERACTIVE / INTERACTIVES

SPECIAL EFFECTS

Engaging user experience

OLE SAMSØE, ALIEN WORKSHOP INTERACTIVE AND FILM CREATOR

green screen stage avail-

To make sure the exhib-

its were 100% accurate,

only actual prisoners and

prison guards were used on

request from the museum -

no actors were used during

able in Denmark.

NO ACTORS

production

Ole Samsøe joined Kvorning Design & Communication as an external consultant at the very early stages of interactivity and filmproduction. Nearly 75,000 lines of code were programmed from scratch over a period of approximately 2 months. The codebase is spread across 37 interactive installments, including applications ranging from interactive RFID activated infopoints to multi-touch installations to highly advanced games based upon real-time camera tracking systems.

INCREDIBLE AUTHENTICITY

The prison museum features an incredible authenticity and feels very much alive due to the many largescale videoscapes portraying the harsh life in prison. To visualize the daily procedures, emotions and often chaotic situations the designers used the biggest





WALL PROJECTIONS AND INTERACTIVE SCREENS





FLY-BY IS USED TO SHOW VISITORS THEIR CURRENT LOCATION



WAYFINDING AND 3D

Find your way through the old prison

PIM FEIJEN INTERACTIVE MEDIA COMPOSER

Wonderland Interactive designed and programmed eight interactive "Wayfinder" screens that help visitors find the exhibitions that they would like to visit and provide them with additional information about these exhibitions. There is also a "Read-more" part, where visitors can type their own email address and a link leading to even more relevant information will then be sent to them.

The prison building is rather large and maze-like, so it was modelled and rendered in 3D. Fly-by is used to show visitors their current location.

Wonderland Interactive chose to put all Wayfinders online to allow easier updates: anytime, anywhere.

LIGHTING DESIGN

Lighting design sets spotlight on bleak atmosphere in Danish prison

JØRGEN KJER LIGHTING DESIGNER

The new refurbishment of Horsens Prison Museum uses video, animation, sound and a subtle lighting design to bring the old prison stories to life.

Grey, grim and gloomy: without attempting to embellish the bleak reality, the exhibition at Horsens Prison Museum offers a view into the daily life of inmates and prison staff during the 153 years the prison was in use.

EXCEPTIONAL LIGHT-ING DESIGN EMPHASIZES PRISON ATMOSPHERE

Kvorning Design & Communication developed the concept for the exhibition and COWI's lighting designers are responsible for the lighting.

With a colour temperature

of about 6,000 degrees kelvin, the lighting design completely avoids the fancy shades and consistent lighting effects that are otherwise typical when making an exhibition feel inviting. Instead, the light is deliberately understated and bleak and does not leave the visitor in any doubt that they are in a building that was designed to confine some of Denmark's most hardboiled criminals of all time.

"We have approached this task in a completely different way than we typically do with museum exhibitions," says Jorgen Kjer, who was responsible for the lighting design. "We couldn't make it nice. Therefore, we increased the degrees kelvin, and kept many of the original fittings, such as fluorescent lamps that gave the place more originality."

Unlike the typical lighting design for an exhibition where the focus is on the individual exhibits, the whole building and everything that belongs to it is the object. This includes the doors, windows and fittings, all of which appear as when the building was abandoned in 2006.



AV DESIGN

Wall projections, image mapping and RFID identities

JENS RAVN AND LASSE WERNER OF AV-HUSET AV DESIGNERS AND INSTALLERS

THE CHALLENGE

In 2015, the former Horsens State Prison was to be refurbished and reinterpreted as a museum, which would convey the prison's history, while simultaneously giving visitors a customized experience through interactive storytelling. It was challenging to integrate new AV equipment while maintaining the old prison's appearance. The AV solution had to be long lasting and of high quality, with maximum working life and minimal maintenance.

THE SOLUTION

In collaboration with Kvorning Design & Communication, AV-Huset delivered and installed over 50 LED projectors and more than 30 screens with Solid State Media Players of the highest quality and which match the latest standards. Kvorning Design has been in charge of the design and content, while AV-Huset has installed, adjusted and programmed all AV solutions. They have also taught the museum staff how to operate the equipment.

ADVANTAGES

By doing this, the Prison Museum has received a state-of-theart technical solution that provides visitors with many great experiences and merges effortlessly with the original prison space. The chosen LED projectors have cut the museum's service checks in half, compared to conventional projectors, and have greatly reduced the risk of breakdowns.





RFID-IDENTITIES

Become a prisoner or a guard for one day ...

GET A PRISONER IDENTITY

When entering the former prison, visitors get a wireless RFID (radio frequency identification) that enables them to choose a personal experience with an authentic prisoner or guard. These include Denmark's most famous escape artist, Carl August Lorentzen, and former minister of justice and conman, Peter Adler Alberti. The RFIDs can be activated in the prison cells, kitchens, bathrooms and prison church. The RFID tags activate via a controller one or several media forms such as sound, lights or video content either on a screen or a video projector. For example, an RFID activates a film on a flat screen and so when the speaker talks about a specific item a spotlight will automatically highlight it.





01. CHOOSE YOUR IDENTITY

- 02. LOG IN WITH YOUR NEW IDENTITY
- 03. MEET YOUR IDENTITY
- 04. SPECIFIC CONTENT PRESENTED05. SPECIFIC CONTENT PRESENTED
- 06. SPECIFIC CONTENT PRESENTED











DIRECTORY LISTING OF PROJECT TEAM

EXHIBITION DESIGN // **KVORNING DESIGN & COMMUNICATION**



ARNE KVORNING ARNE@KVORNING.DK WWW.KVORNING.DK +45 40 57 33 73

SPECIAL EFFECTS AND INTERACTIVES // **ALIEN WORKSHOP**

OLE SAMSØE OS@ALIENWORKSHOP.DK ALIENWORKSHOP.DK +45 20 93 55 56

AV TECHNOLOGY // **AV-HUSET**

JENS RAVN LW@AV-HUSET.DK AV-HUSET.DK +45 20 81 29 30

LIGHTING DESIGN // **COWI LYSDESIGN**

JØRGEN KJER KJER@COWI.DK COWI.DK +45 40 61 14 40

SIGNAGE // **IDESKILTE**

LARS BEUCHERT LB@IDESKILTE.DK **IDESKILTE.DK** +45 76 26 61 11

SOUNDSCAPES // MASTERMIND **PRODUCTION APS**

FINN MARKWARDT FM@MASTERMINDPRODUCTION.DK MASTERMINDPRODUCTION.DK +45 51 92 28 44

CARPENTRY // **SPORRING**

ROBERT SPØRRING RS@SPORRING.DK SPORRING.DK +45 28 87 77 69

MOUNTING // **WAGNER MONTAGE**

ANDERS WAGNER MAIL@WAGNERMONTAGE.DK WAGNERMONTAGE.DK +45 51 23 80 95

INTERACTIVES // WONDERLAND **INTERACTIVE**

PIM FEIJEN PIM@WONDERLANDINTERACTIVE.DK WONDERLANDINTERACTIVE.DK +45 51 18 67 35

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HERITAGE SOLUTION LTD PUBLISHERS OF MUSEUMINSIDER

29 STUDLEY GRANGE ROAD LONDON W7 2LU

WWW.MUSEUMINSIDER.CO.UK